DRAFT ENVIRONMENTAL IMPACT ASSESSMENT AND DRAFT ENVIRONMENTAL MANAGEMENT PLAN FOR

PROPOSED MINING OF SOAPSTONE

AT

VILLAGE: KARULI, TEHSIL & DISTRICT: BAGESHWAR, UTTARAKHAND

AREA: 7.841 HA, PROPOSED CAPACITY: 24,000 TPA (MAXIMUM)

PROJECT PROPONENT

M/S STAR MINES AND MINERALS

SMT JANKI RATHOR

Village – Karuli, Tehsil &

DIST- Bageshwar (UTTRAKHAND)

PREPARED BY

ENVIRO INFRA SOLUTIONS PVT. LTD.

(Accredited by NABET (Quality Council of India)
For EIA studies as 'A' Category Consultant
(Sl.No. 52nd, List of Accredited Consultant Organizations)
Address:- 301,302 & 305, SRBC, Sec-9, Vasundhara, Ghaziabad, U.P.
Ph.: 0120- 4151183
Email: eis@enviroinfrasolutions.com
Website:www.enviroinfrasolutions.com

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	taken up under CSR programme	

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CHAPTER 1: INTRODUCTION

1.1 PURPOSE OF THE EIA REPORT

Environmental Impact Assessment (EIA) is one of the proven management tools for integrating environmental concerns in development process and for improved decision making as there is need to harmonize the developmental activities with the environmental concerns into the larger interest of the society. The growing awareness, over the years, on environmental protection and sustainable development, has given further emphasis to the implementation of sound environmental management practices for mitigating adverse impacts from developmental activities. EIA plays a vital role in sustainable development of a country. Recognizing its importance, the Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India has formulated policies and procedures governing the industrial and other developmental activities to prevent indiscriminate exploitation of natural resources and to promote integration of environmental concern in project development.

Draft Environmental Impact Assessment report has been prepared to comply with the proposed Terms of Reference (ToR), under EIA notification of the MoEF&CC dated 14th September, 2006 and amended thereof, for seeking environmental clearance for mining of soapstone in the applied mining lease area.

1.2 IDENTIFICATION OF PROJECT & PROJECT PROPONENT

The project is being proposed by M/s Star mines and mineral. The address of the proponent is given below:

M/s Star mines and Minerals

House no. 346/3, Kalawati Colony,

Haldwani, Distt. Nainital, Uttarakhand - 263139

The proponent has applied for environmental clearance for mining lease in the name of Soapstone (Agricultural Land) Mining Project over an area of 7.841 ha at Village- Karuli, Tehsil, District- Bageshwar, Uttarakhand.

1.3 BRIEF DESCRIPTION OF PROJECT

1.3.1 NATURE

The mining shall be carried out in two pits and will be done semi-mechanized way in open cast method in quite a systematic manner by forming upto 9m high benches with1.5m to 3.0m sub-benches. All the top soil, overburden & interburden shall be removed by the means of excavators. The slope of the faces will be kept 60°-70° and the ultimate slope of the pit will remain 45°. Mining shall be carried out from higher level & subsequently advance to upper levels.

1.3.2 SIZE

The mine lease area is 7.841 Ha. private Agricultural land on hill terrain and the project is contemplated to extracted the mineral (Soapstone) by manual open pit/cast method of mining without blasting.

1.3.3 LOCATION

The proposed lease of Soapstone Mine is situated at Village- Karuli, Tehsil, District - Bageshwar in the Uttarakhand State. The location and Salient feature of mining Lease area has been shown in **Table 1.1**. The location map of the mine lease area has been shown in **Figure 1.1**.

Table 1.1: Location and Salient feature of Mining Lease Area

Sr. No.	Particular	Details
A.	**Nature of the Project**	**Soapstone Mining Project.**
B.	Size of the Project	
1.	ML Area	7.841 Hectare (Private Agricultural Land).
2.	Proposed Production Capacity	Total Recoverable Quantity of Soapstone:
		24000 Tonnes (max) (As per approved Mining Scheme)
3.	Lease Period of Mine	Lease was granted for a period of 50 Years.
C.	Method of Mining	
1.	Method	Open-Cast Manual Mining
2.	Blasting / Drilling	Not proposed
D.	Project Location	
1.	Village	Karuli
2.	Tehsil	Bageshwar
3.	District	Bageshwar
4.	State	Uttarakhand
5.	Toposheet No.	53 O/13
6.	Lease Area Coordinates	Latitude 29°52'2.98" N to 29°52'15.41"N
		Longitude 79°49'39.48"E to 79°49'45.82"E
E.	Cost Details	
1.	Project Cost	Rs. 20 Lakhs
F.	Water Demand	
1.	Requirement	10 KLD
2.	Source of water	Nearby villages & Natural Springs (nalah)
G.	Man Power Requirement	59
H.	Environmental Setting	
1.	Nearest Village	Karuli, 500m (Aerial)
2.	Nearest Town	Bageshwar, 6 Km (aerial)
3.	Nearest National / State Highway	Bageshwar – Dofar - Dharamgarh Road, 0.2 Km

4.	Nearest Railway Station	Kathgodam, 72 Km (Aerial)
5.	Nearest Airport	Pithoragarh, 49 Km (Aerial)
6.	Ecological Sensitive Areas (National Park, Wild Life Sanctuaries, Biosphere Reserve etc.) within 10 km radius	None
7.	Reserved / Protected Forest within 10 km radius	Karuli RF – 500 m
8.	Water bodies within 10 km radius of the mine site.	Pungar River, 1km (Aerial)
9.	Archaeological Important Place	None
10.	Seismic Zone	V

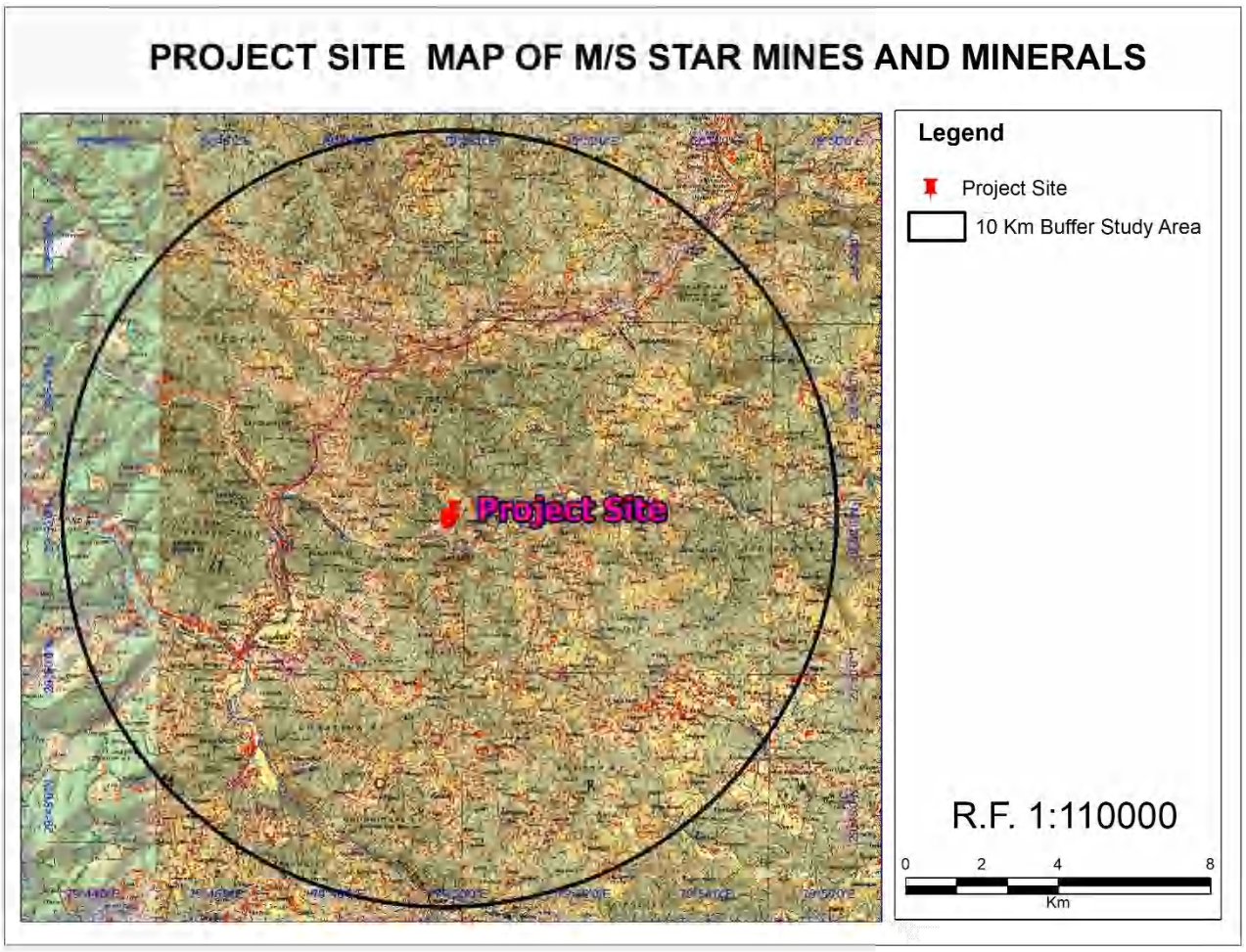


Figure 1.1: Location Map of the mine lease area

1.4 PROJECT'S IMPORTANCE TO THE COUNTRY AND THE REGION

Soapstone finds its use in many of the industries that include detergent & Paper industries etc. The natural available material in the quarry site has been found suitable from techno economic consideration. The mining project shall provide direct employment to about 71 persons. Additional jobs are created by way of transportation.

No subgrade mineral is produced from the mine. The soapstone is being dressed manually and transport to Haldwani. The final material will be utilized paper & cosmetic industries.

1.5 SCOPE OF THE STUDY

The SEAC in its meeting dated 3rd June 2021 examined the proposal. After through discussion and deliberation, it has been conveyed by SEAC that draft EIA/EMP report shall be prepared as per approved ToR and after public consultation through Uttarakhand Environment Protection and Pollution Control Board the final EIA/EMP report shall be submitted after incorporating Public Hearing details to SEIAA, Uttarakhand for Environmental Clearance.

1.6 POINT WISE COMPLIANCE

The present draft EIA/EMP report of the proposed project is prepared as per proposed TOR and in compliance with the ToR No.226/SEAC dated 15 June 2021 by State Level Expert Appraisal Committee, Dehradun. The copy of the ToR has been attached as **Annexure I**. The point wise compliance of ToR has been shown in **Table 1.2:**

Table 1.2: Point Wise Compliance for TOR

Sr No.	ToR Points	Reference of Compliance
1.	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994	The proposed soapstone mine is a new mine. Therefore the year wise production data since 1994 is not applicable.
2.	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given	The copy of LOI is attached as Annexure II.
3.	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee. The above reports should also match with the latest District Survey Report (DSR) notification no- 2827 dated 25th July, 2018. **Data obtained from this DSR should be incorporated in the EIA report for the impact identification, interpretation, prediction, carrying capacity and mitigation.**	Complied.
4.	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	The study area map has been shown in Figure 1.1 of Chapter 1.

5.	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.	The land use map of the proposed project has been shown in Figure 3.7 of Chapter 3.
6.	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.	The details have been have been described in Section 4.3 of Chapter 4.
7.	It should be clearly stated whether the proponent Company has a well laid down Environment. Policy approved by its Board of Directors? if so, it may be spelt out in the EIA report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the company to deal with the environmental and forest norms/ condition? The hierarchical system or administration order of the company to deal with environmental issues and for ensuring compliance with the EC condition may also be given. The system of reporting of non-compliance/violations of environmental norms to the Board of directors of the company and / or shareholders or stakeholders at large, may also be detailed in the EIA report.	Yes the details have been shown in Figure 6.1 of Chapter 6.
8.	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.	Complied.
9.	The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.	Complied.
10.	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	The land use map of the proposed project has been shown in Figure 3.7 of Chapter 3.
11.	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.	Provided in draft EIA/EMP Report.
12.	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim	No forest land is involved in the proposed soapstone mine.

	by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.	The letter from the forest department is in process.
13.	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.	No forest land is involved in the proposed soapstone mine
14.	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.	Not Applicable
15.	The Vegetation in the RF/PF areas in the study, with necessary details should be given.	
16.	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.	No wildlife Sanctuary/National Park is situated within 10 km radius from the proposed soapstone mine.
17.	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.	No wildlife Sanctuary/National Park is situated within 10 km radius from the proposed soapstone mine.
18.	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of	The detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] has been described in section 3.11 of Chapter 3.

	the project cost.	
19.	Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.	Not Applicable
20.	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.	Not Required.
21.	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.	The details of Ambient Air Quality have been described in section 3.5 of Chapter 3.
22.	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the	The Air quality modeling has been described in section 4.4 of Chapter 4.

	habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.	
23.	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	The details of Water requirement for the Project have been described in section 2.9 of Chapter 2.
24.	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not required.
25.	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	Not Applicable.
26.	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.	The details have been described in section 4.2 of Chapter 4.
27.	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.	Not Required.
28.	Details of any stream, seasonal or otherwise, passing through the lease area and modification/diversion proposed, if any, and the impact of the same on the hydrology should be brought out.	No streams, seasonal nallahs or river is passing through the proposed the soapstone mine.
29.	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.	The details have been described in table 4.1 of Chapter 4
30.	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the	The Greenbelt Development Plan have been described in section 9.9 of Chapter 9. The Greenbelt and Plantation have been described in section 4.7 of Chapter 4.

	species which are tolerant to pollution.	
31.	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.	The impact on Traffic has been mentioned in section 4.13 of chapter 4.
32.	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.	The temporary rest shelters and mobile toilets will be provided to the mine workers.
33.	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.	The details have been described in section 4.1 of Chapter 4.
34.	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	The details have been described in section 4.10 of Chapter 4.
35.	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.	Complied and Provided in EIA/EMP report
36.	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.	The details have been described in section 4.9 of Chapter 4.
37.	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.	The detailed Environmental Management Plan (EMP) has been described in Chapter 9.
38.	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.	Complied.

39.	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.	No court case is pending in any court against the proposed project.
40.	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.	The budget of Environmental Management Plan has been presented in Table 9.3 of Chapter 9. The budget of CSR has been presented in Table 4.13 of Chapter 4. The budget of CER has been presented in Table 9.4 of Chapter 9.
41.	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	The detailed Disaster management Plan has been described in section 7.3 of Chapter 7.
42.	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	The detailed project benefits have been described in Chapter 8.
43.	**Besides the above, the below mentioned general points are also to be followed:-**	
(a)	Executive Summary of the EIA/EMP Report	Complied
(b)	All documents to be properly referenced with index and continuous page numbering.	Complied
(c)	Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.	Complied
(d)	Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.	Complied
(e)	Where the documents provided are in a language other than English, an English translation should be provided.	Complied
(f)	The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.	Complied
(g)	While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.	Complied
(h)	Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public	Complied

	Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.	
(i)	As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.	Complied
	The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.	
(j) **Note:**		
1)	The study area shall comprise of radial distance of 10 KM from the project site and the study period is three months. The impact on each of the above parameter as a result of mining shall be assessed through appropriate modeling and prediction methods considering base line data.	Complied
2)	District Survey Report should be submitted as per the latest notification no- 2827 dated- 25-7-2018	Complied

CHAPTER 2: PROJECT DESCRIPTION

2.1 TYPE OF PROJECT

The project is proposed for the excavation of soapstone from the Hill slope (Agricultural land). It is an opencast mining project where the entire activity will be done in a semi-mechanized way.

2.2 NEED FOR THE PROJECT

The project site lies on hill slope which is agricultural land. With the rapidly increasing demand of Soapstone raw materials, The Industry's demand for fine powder is continuously prompting technological advancements to meet this purpose. The pulverize /hammer mills developed and manufactured in India are capable of producing up to 700 mesh powder. The world market prefers fine powder which can be produced by adopting new processing techniques like micronizing and sterilization of the product. Talc, in pulverized form, is mostly used as filler in paper, textile, rubber, insecticides and fertilizer industries. Pure talc after calcining, called ‘Lava’ is used in the manufacture of low-loss ceramic materials essential for radio, radar television, etc. In roofing products, such as, tar paper, asphalt shingles and roll roofing, talc acts as a fire retardant and increases weather resistance. Body and face powders (talcum powder) are prepared from the finest quality talc after adding deodorant and perfumes.

Talc is used mostly in pulverized form as a filler and extender in various industries. The non-pulverized talc is used in refractory, etc. Total reported consumption of talc/steatite/ soapstone in the organized sector was at 368 thousand tones in 2012-13. About 56% consumption in 2012-13, was in Paper Industry, followed by Paint (20%), Pesticide (11%), Ceramic (8%) and Cosmetic (4%) industries. Nominal consumption was shared by Fertilizer, Rubber, Textile, Chemicals and other industries.

The demand in the domestic market is high for Soapstone. The Industry's demand for fine powder is continuously prompting technological advancements to meet this purpose. Mineral is available in abundant quantity in area and can be extracted indigenously. The proposed mining activity is for indigenous consumption only for Pharmaceutical Industry, Cosmetic Industry, Textile, Ceramic, Paint, Rubber, Plastic, Detergent etc.

2.3 LOCATION DETAILS

The proposed lease of Soapstone Mine is situated at Village- Kabhata, Tehsil — Kanda, District - Bageshwar in the Uttarakhand State. The lease co-ordinates and connectivity details are listed below:

titude	°52'2.98" N to 29°52'15.41"N
ngitude	°49'39.48"E to 79°49'45.82"E

The lease is well connected to metaled road Bageshwar – Dofar - Dharamgarh which is at a distance of approx. 0.2 km from the mine lease area.

The index map of the project site has been shown in **Figure 2.1.**

2.3.1 Lease Hold Area

The lease hold area of 7.841 ha lies on the hill slope. The lease has been intended to allot vide Letter of intent (LoI) no. 1130/VII-A-1/2020/1(4)/20 Soapstone/17 dated 20/11/2020. The copy of Letter of Intent (LOI) has been attached as **Annexure II**.

2.3.2 Details of the Lease Hold Area

19.879 ha area has been granted out of 28.264 ha and only 7.841ha area has been demarcated out of 19.879 ha area. Details of land use of applied area are tabulated below.

Forest		Non- Forest	
			Area (ha)
orest (specify)	None	Category 1(d) Jotdar land State Govt/ Civil. Land Land under Category 7(d) Category 9(3)M Land for public use Land under Category 10(1) Land under Category 10(2)	6.584 0.425 0.658 0.157 0.017
		Total	**7.841**

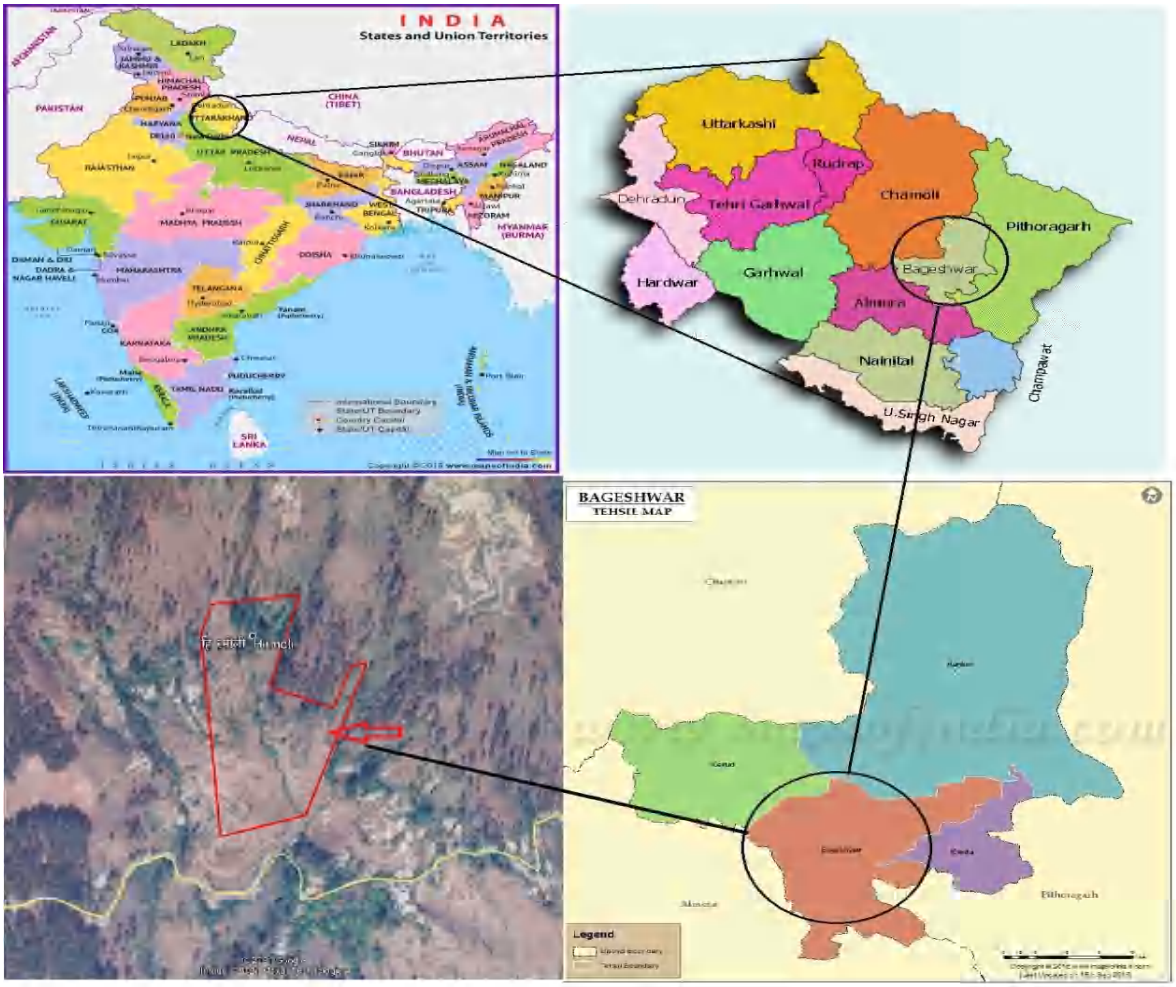


Fig 2.1: Index map of the project site

2.4 TOPOGRAPHY & GEOLOGY

Topography

Bageshwar district comprises two broad physiographic divisions from north to south viz. Central Himalayan Zone (north of the Main Central Thrust) and Lesser Himalayan Zone (south of the Main Central Thrust). The area shows an extremely rugged topography characterized by precipitous hills and deep gorges with sharp variation of high magnitude in surface relief. The general slope is towards south. In the northern parts the elevation of the land surface ranges from about 3000 m to 6861 m above mean sea level whereas in the valleys of southern part, the altitude is as low as 795 m. The soils of Bageshwar district can be broadly classified into two types, viz. Soils of Lesser Himalaya and Soils of Greater or Central Himalaya. Majority of the area is covered by the first type. The soils in this area are exposed in massive mountainous tracts and tangled mass of series of ridges divided from each other by deep, narrow valleys. The soils of Lesser Himalaya are further subdivided into a) Soils of Summits and Ridge tops, b) Soils of Side Slopes, c) Soils of Glacio-Fluvial Valleys, d) Soils of Fluvial Valleys and e) Soils of Cliffs. The soils of Greater Himalaya have been broadly classified under a) Soils of Summits, Ridge Tops and Mountain Glaciers, b) Soils of Side Slopes, c) Soils of Upper Glacio-Fluvial Valleys and d) Soils of Cliffs.

This area lies on southern slope of a hill in a mountainous terrain of rough and rugged topography. The adjacent area is drained by three seasonal Rollis/Nalas. The applied area forms a transverse ridge of ending southern slope in the valley. The area has sloppy undulating surface and at places flat gentle sloping cultivated land also. The highest RL is about 1210.4m on the northern side of the applied area, while the lowest RL recorded on the southern side of the applied area is about 1102.1m. General slope of the lease area is 10° - 30° in southern direction.

Geology

District Bageshwar is mainly represented by the rocks of Lesser Himalaya and Central Himalaya. The geological set up is very complex due to the repeated tectonic disturbances caused by different orogenic cycles. Valdiya (1980) carried out extensive geological and structural mapping in the area. The salient features of geology are depicted in the geological map of Bageshwar district. The map is based on Geological Survey of India, 2002.

The rock units exposed in various parts of Bageshwar district comprise current-bedded quartzite with associated volcanics, mica-talc schist, limestone, conglomerate, slate, quartzite, granodiorite, augen gneiss, migmatite and granite gneiss. Many areas in the northern part of the district are yet to be mapped by conventional field methods due to inaccessibility and permanent snow cover. However, a group of regionally metamorphosed rocks known as the Central Crystallines are exposed in this area. The Central Crystallines of the Central Himalayan Zone occur as thrust sheets over the metasedimentary and sedimentary rocks of Lesser Himalayan Zone in varied tectonic settings. Major rock types of Central Crystallines are migmatites, psammitic and mica gneiss, calc gneiss, quartzite, marble, mica schist and amphibolite. Granites of different ages ranging from Paleoproterozoic to Mesozoic-Tertiary intrude the Central Crystallines. Major parts of Bageshwar district falls under the geotectonic zone known as the Lesser Himalaya. Rock types in the Lesser Himalayan Zone include sedimentaries, metasedimentaries and plutonic igneous rocks. The various rock units have suffered multiple phases of deformation and metamorphism in major parts of the district.

The area forms the part of Cale zone of Tejam and Pithoragarh. According to Prof. K.S. Valdiya (Geology of Lesser Himalaya, 1980) and D. K. Banerjee et. al. 1975) the lithostratigraphic sequence of this area is as follow:

	Group/ Formation	Lithology
Pithoragarh Formation	Berinag Formation	Quartzite, Meta quartzite, Conglomerate, Phyllite
	----------Unconformity ----------	
	Gangolihat magnesite	Magnesite, dolomitic soapstone with algal structures. Magnesite with talcose phyllite intercalations
	----------Unconformity----------	
	Sor Slate	Slate, Phyllite, subgrawake

In this region, rocks of Pithoragarh Formation occur. The development of algal stromatolite in carbonates occurrence or magnesite is a common associate of the carbonates. The Calc- Zone rock units are well known for their structural dispositions (windows, half

windows in Lesser Kumaon Himalaya) for stromatolites and minerals (magnesite, dolomite, soapstone and minor metallic occurrences).

Local Geology:

Alluvial Cover:

The applied area lies in the village Karuli which is located almost on south-western sloping part of small hill. Both overburden and outcrops of soapstone are present in exploratory opening, magnesite boulders occur on the surface as well as intermixed with soapstone in the applied area. The lithounits found in the project area are:

Overburden:

Almost whole block of the applied area is covered with overburden material. This overburden comprises grey to brown to dark brown, fine to medium grained silty-clayey soil. Small fragments of soapstone and magnesite are also present in this soil. Thickness of this overburden varies from 0.9 to 1.5 m.

Soapstone bearing with Magnesite:

Intermixing of soapstone [$Mg_3Si_4O_{10}(OH)_2$] with magnesite occur below the soil cover. Mostly this soapstone or talc is highly prone to easy weathering and erosion due to its softness and thus its outcrops are rare. In shallow depth soapstone is massive to highly bedding and shows brightness/whiteness characteristic which generally varies from medium to high. At places talc pockets are crushed and crumbled due to association with shear zones present in the area. In the applied area soapstone is fine grained, off-white to white, foliated and sometimes powdery due to crushing. In specimens or fragments it shows flexibility in edges due to thinness and trimming. Overburden comprises magnesite boulders intermixed with soapstone. This intermixed magnesite boulders in soapstone are about 60%.

Source: Approved Mining plan

2.5 CLIMATE

The climate in Bageshwar district is temperate to sub-humid. The northern part of the district experiences sub-zero temperature almost throughout the year whereas the central and southern parts are comparatively warm and humid. Severe winter is the chief climatic feature in the district. In general, the district experiences a tropical to subtropical and sub-humid climate except for the northern part where a cold temperate climate prevails.

2.5.1 Temperature, Relative Humidity and Wind

January is the coldest month with mean maximum temperature of 10°C, the mean minimum temperature being about 2°C. Temperature drops down to –6°C during January and February in the northern part of the district. June is the warmest month with the mean maximum and the mean minimum temperatures of 25°C and 15°C respectively. The maximum temperature recorded in the district was 43ºC (May 2020) whereas the minimum temperature recorded was 4ºC (January 2020).

The Relative Humidity increases rapidly with the onset of monsoon and reaches at about 80% during July to September. The driest part of the year is the pre-monsoon period, when the humidity is as low as 30% in the afternoons. Skies are heavily clouded during the monsoon months and for short spells when the district is affected by Western Disturbances. Two broad

wind patterns are observed in the district viz. north easterly to easterly (May to September) and south easterly to westerly (October to March).

2.5.2 Rainfall

Most of the rainfall, about 75% of the annual value, occurs during monsoon months of June to September. July is the rainiest month followed by August. In September, depressions from Bay of Bengal occasionally reach Uttarakhand and affect the weather of Bageshwar district also. This phenomenon may cause heavy rains. With the withdrawal of monsoon in September, the intensity of rainfall rapidly decreases. The decrease continues till November, which is a practically rainless month. Winter precipitation is associated with the passage of the Western Disturbances and is in the form of snowfall over higher elevations. The monthly and annual normal rainfall data of Kausani Rain Gauge Station for the period 1997-2002 shows that the annual rainfall ranges from 1051 to 1705 mm and the Annual Average Rainfall is 1331.4 mm. The monthly rainfall data from the rain gauge station also reveals that the maximum rainfall (460.4 mm) was received in July 2001 whereas the minimum rainfall (355.8 mm) was observed in June 2000.

2.6 SURFACE DRAINAGE PATTERN

Drainage of the area is mainly controlled by Saryu, Gomti and Pindar Rivers and their tributaries (locally called Nadi, Gad or Gadhera) viz. Pungar Nadi, Khir Ganga Nadi, Bhadrapati Nadi, Revti Ganga, Kanal Gad, Lahor Nadi, Jagtana Gad, Kulur Gad, Sukunda Gad etc. Sub-trellis, sub-rectangular and sub-dendritic are the most common drainage patterns in the area. The Central and North-Central parts of the district are drained by Saryu River. Gomti River drains the western and south eastern parts whereas Pindar River drains the northern part. These rivers are primarily fed by snowmelt with relatively smaller contribution from ground water. However, during the lean period, the rivers are fed by ground water occurring as base flow. An area is drained by three nalas within the lease flowing almost north to south directions in the applied area. The surface drainage pattern map is shown in **Figure 2.2.**

Figure 2.2: Surface Drainage Map

2.7 PROPOSED METHOD OF MINING

Excavator shall be deployed for the removal of overburden & interburden. Soapstone is soft mineral therefore no drilling & blasting shall be required. No further beneficiation will be required except breaking & sorting. From road side the soapstone bags will be loaded into trucks through manually and transported to Haldwani The salient points of proposed method of mining are given below:-

- The mining will be done semi-mechanized way in open cast method in quite a systematic manner by forming upto 9 m high benches with 1.5m to 3.0m sub-benches. However, there may be minor variation in the width and height which the lessee will keep on mending.
- The top soil and interburden to be scrapped with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and will be stacked separately in dump yard located near the working pit.
- The extracted mineral is properly sorted out at the mine site. Crow bars are sometimes used to dislodge the mineral.
- The excavation for soapstone will be made through JCB Machine, dozer, shovels, pickaxe, spade & crowbar.
- It is proposed to make 5m to 9.0m height benches which will be sliced in three stages each of 3.0m height with 1.5m height sub benches.
- The slope of the faces will be kept 60^0-70^0 and the ultimate slope of the pit will remain 45^0.
- Developmental work will be done by construction of road/track to different working benches, removal of top soil and interburden.
- The soil will be filled into the bags, loaded on mules and unload into stockyard.
- The interburden generated during mining will be separately stacked and places shown within the applied area which will be backfilled.
- Sorting of high grade soapstone will be done on the benches by the labourers and it will be graded.
- The local people will be used for removal of mineral to the nearest road point from where the minerals will be transported by trucks to Haldwani.
- The mineral will be loaded over the trucks by the manual labour. The pit will be connected by track/foot path to the main road.
- The slope of track may vary from 1:8 to 1:20.
- Each mining face will be connected by track/road having width 3.0m.
- Exploitation of soapstone is small scale of mining and does not require any drilling & blasting.
- The average rate of production of soapstone is estimated in between 20000 to 24000 tonnes from I year to V year.
- Proper precautionary measures shall be taken to prevent soil erosion.
- The recovery of the soapstone will be 40% of the total excavation.
- Office, store, first aid centre, drinking water shed, rest shelter etc. will be constructed temporarily within the applied area.

The mining is confined in the applied area and mining benches of the pit will be backfilled to retain its original topography therefore the efforts for afforestation would be done inside the applied area in between lease boundary and UPL, about 0.495 area will be covered by

2295 saplings upto five year. Upto lease period 21056 saplings will be done in *Van Panchayat* and forest land after taking due permission from concerning authority.

- The top soil and interburden are stacked separately in dump yard within the applied area and will be used for reclamation of the pit after exploitation of the mineral.
- Mining operations shall be carried out scientifically by following the provisions of Mining and Minerals (Development & Regulation) Act, 2015, MCDR Notification 2017, Uttarakhand, Metalliferrous Mines Regulations (MMR) 1961, UKMMCR 2001 and time to time directions/amendment given by Geology & Mining Unit & State Government will growth generated on such boundary to isolate mining from rest of the area not be over looked at any stage.
- 7.5 m un-mined barrier will be maintained all along the lease boundary and vegetation
- Exploitation of the soapstone will not be done in land for public use.

It will be open cast mechanized mine. Due to the scarcity of workers it is not possible to carry out mining operation systematically & scientifically through the formation of benches. Therefore lessee has left no option but to deploy an excavator for systematic & scientific mining, conservation of mineral & protection of environment. It has been revealed from past mining experience that average recovery of waste rock / boulders is around 60% of total ROM. The rock formation is hard & rock breaker may be deployed for the removal of hard strata. Lessee intends to set up small crusher unit so that waste rock/ boulders shall be utilised for making aggregates. If waste material is used for making aggregates, the problem is disposal of waste shall be solved & govt. will earn revenue. Chemical analysis of soapstone and waste material can be carried out from Laboratory of Directorate of Geology & Mining, Bhopalpani, Dehradun.

Extraction & management of minerals has to be guided by long- term national goals & perspective & integrated into the overall strategy of the country's economic development. Mining technology will be upgraded to ensure extraction & utilisation of entire Run of Mines (ROM). There shall be an adequate & effective legal & institutional framework promoting zero waste mining as the ultimate goal & commitment to prevent sub-optimal & unscientific mining.

Mining shall be carried out from higher level & subsequently advance to upper levels. As soon as mining pits reach its maximum economical depth backfilling shall be commenced from lower level to restore the maximum original topography of the area. This is common practice of soapstone mining in Kumaon Himalayas. Backfilling in both the pits shall commenced from first year onwards to restore the mined out pit to its maximum original topography. The average depression will be 2.0m with respect to its original topography.

2.8 RESERVE (AVAILABLE QUANTUM) AND PRODUCTION (EXTRACTABLE QUANTUM)

Economic Axis (El):

(i) Due to mining surrounding area & past exploration within area, it has been revealed that the mineral is good grade & having no problem in selling in the market. Mineral shall be transported manually as well as mules up to road side & loaded in to truck. NOC from individual land owners have been obtained. On this basis economic

viability of the deposit has been established & mineral is economically viable. Hence economic axis under UNFC for the deposit is E=1.

(ii) Specific end use grade of reserve established. The reserves of soapstone with applied area are cosmetic, paper & detergent grade.

(iii) Specific knowledge of own forest & other land use data is available. The applied area is totally agricultural land & after mining it shall be backfilled, leveled it & put use for agriculture.

Feasibility axis: As this is small opencast semi-mechanized mine. The feasibility study carried out for this area and is considered to be pre-feasibility status. Hence pre-feasibility axis under UNFC for the deposit is F=l.

Geology: Due to past exploration within area, local geology, mineralogy & geometry of soapstone deposit has been established. The identification of ore body carried out & only soapstone was formed to be occurred within applied area.

Geological Axis:

(G-I) Actual exploration in vicinity of applied area has been established by way of mining pits. Therefore geological axis has been considered under G 1.

(i) Geological Survey: Mapping in the scale of 1:1000 will triangulation point & bench marks carried out & shown in surface geological plan. Extensive pitting in surrounding area has been done & nature of deposition of soapstone has been established.

ii) Linking of map with topo grid carried & latitude & longitude of corner pillar token,

iii) Assessment of lithology carried out based on the exposures in the pit of soapstone, structure & surface mineralization studied & mapped.

2. Geo chemical survey: Detailed sampling of pit.

3. Geophysical survey: Geophysical survey was carried was carried out on the basis of exposure & outcrops. Based on the exploration & exposure in the pit, the mineralization zone delineated,

4. Technological: Extensive pitting at the time of prospecting period was carried out within the applied area. The depth of pit varies 3m to 6m. The deposit is regular with low dip. Surface & subsurface lithology & co-relation of mineralization zones carried out by pitting & sampling carried out from pit faces.

Parameters for Estimation:

1. The cross section area of each section line has been calculated for each category of reserves. The cross sectional area is multiplied by the strike influence to get the volume. The volume is multiplied by the bulk density to get the tonnage in each section line.
2. Bulk density of soapstone has been assumed 2.6 III view of our past experience in and around the area.

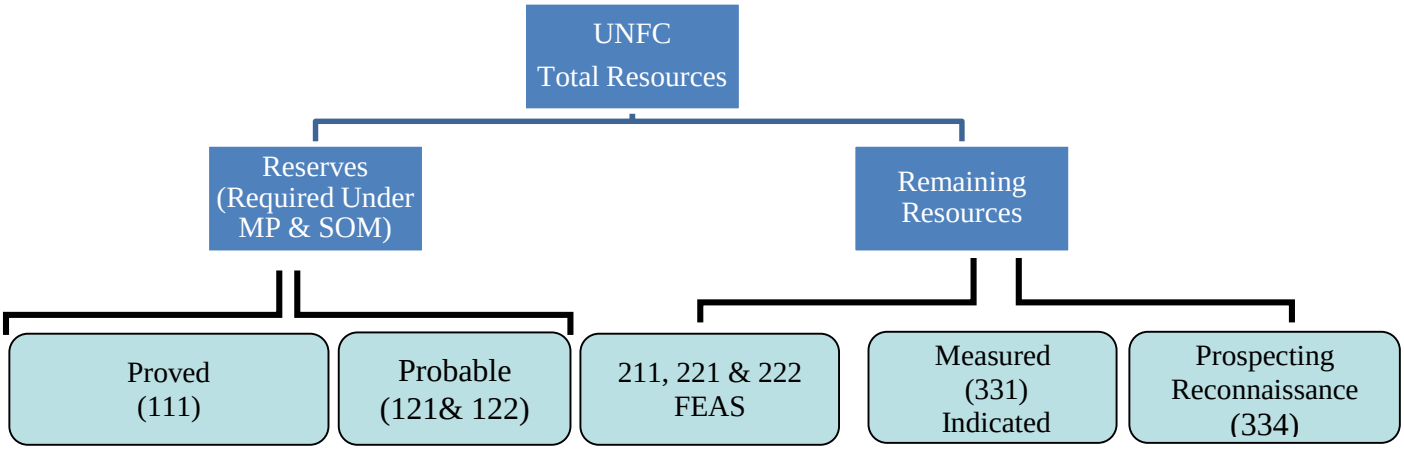
3. Bulk density of interburden (Magnesite) has been assumed 2.5 in view of our past experience in the area.
4. Recovery of interburden (Magnesite) has been taken as 70% of the total excavation as per the past experience with in the area & on the basis of prospecting carried out within applied area.
5. Due to past mining surrounding of applied area, it has been revealed that incidence of soapstone in different pits varies 20% to 40%, therefore on an average incidence of soapstone has been considered 30% of total excavation.

2.9. Mineral Reserves/Resources As per UNFC classification:

i)Details of UNFC Classification:

UNFC is three digit code based system, the economic viability axis representing the first digit, the feasibility axis the second digit & geological axis the third digit.

Codes 1, 2 & 3 in decreasing order. The heights category of resources under UNFC system has code (111) & for the lowest category the code is (334).



Code (111): This code is provided for the economically mineable part of the measured mineral resources (Proved category reserves).

Code (121, 122): This code is provided for the economically mineable past of the (333) indicated mineral resources (Probable category reserves).

Code (211): This part of the measured mineral resources (Proved Category), which as per feasibility study has not found economically mineable. The reserves blocked in 7.5m buffer zone of the distances restriction from permanent structure.

Code (222): The part of indicated mineral resources (probable category) which has pre feasibility study has not found economically mineable. The reserves blocked 7.5m buffer zone & distances restricted from permanent structure.

Code (333): Tonnage, grade & mineral contents can be estimated with low level of confidence & resources are also inferred from geological part.

The mineral reserves/resources calculated within lease area are as below:-

Table 2.1 : Details calculation of reserve & resources

Category	UNFC Code	Quantity in tonnes	Grade
A. Total Mineral Reserve			
Proved Mineral Reserve	111	**565146.14**	Paper & Detergent
Probable mineral Resource	121 & 122	**304536.96**	Paper & Detergent
B. Total Remaining Resources		0	
Feasibility mineral Resource	211	133705.47	Paper & Detergent
Prefeasibility mineral resource	221 & 222	160521.27	Paper & Detergent
Measured mineral resource	331	Nil	Nil
Indicated mineral resource	332	Nil	Nil
Inferred mineral resource	333	134881.22	Paper & Detergent
Reconnaissance mineral resource	334	Nil	Nil
Total Reserves + Resources		**12,98,791.06**	

Proved Geological Reserves

Section	Area (m^2)	Strike Influence (m)	Volume (Cum)	Mineable Reserves (in Tonnes)	Blocked Reserves (in Tonnes)	Total Reserves (in Tonnes)
LB to A-A'	1695.31	21.53	36493.81	37953.57	7458.05	45411.61
A-A' to B-B'	2119.137	40.18	85148.81	88554.76	17401.41	105956.17
B-B' to C-C'	1758.14	49.17	86441.09	89898.74	19488.06	109386.79
C-C' to D-D''	2117.61	47.90	101438.77	105496.32	19591.00	125087.31
D-D' to E-E'	1515.60	41.82	63386.81	65922.28	14925.41	80847.69
E-E' to F-F'	1794.05	34.81	62457.61	64955.91	19435.91	84391.82
F-F' to G-G'	1323.52	35.80	47376.81	49271.88	17121.70	66393.58
G-G' to H-H'	1243.40	36.19	44997.12	46797.00	10681.60	57478.60
H-H' to LB	638.06	24.56	15668.93	16295.69	7602.35	23898.03
	14204.82		**543409.75**	**565146.14**	**133705.47**	**698851.61**

Probable Geological Reserves

Section	Area (m2)	Strike Influence (m)	Volume (Cum)	Mineable Reserves (in Tonnes)	Blocked Reserves (in Tonnes)	Total Reserves (in Tonnes)
LB to A-A'	929.84	21.53	20015.99	20816.62	9386.91	30203.53
A-A' to B-B'	1162.30	40.18	46702.09	48570.17	21901.91	70472.08
B-B' to C-C'	950.46	49.17	46730.48	48599.70	24195.87	72795.57
C-C' to D-D''	1191.39	47.90	57070.41	59353.23	23995.45	83348.68

D-D' to E-E'	813.95	41.82	34041.57	35403.23	18451.75	53854.98
E-E' to F-F'	926.86	34.81	32267.28	33557.97	22466.37	56024.34
F-F' to G-G'	652.97	35.80	23373.86	24308.82	19859.55	44168.37
G-G' to H-H'	709.71	36.19	25683.43	26710.77	11586.38	38297.15
H-H' to LB	282.56	24.56	6938.89	7216.44	8677.07	15893.52
	7620.02		**292824.00**	**304536.96**	**160521.27**	**465058.22**

Blocked Reserves of Soapstone
Feasibility mineral Resource (211)

Section Line	Section Area (m^2)		Strike Influence (m)	Volume (Cum)		Blocked Reserves (Tonnes)	
	Blocked in (UPL)	Blocked Under 45º		Blocked in (UPL)	Blocked Under 45º	Blocked in (UPL)	Blocked Under 45º
LB to A-A'	155.04	178.10	21.53	3337.34	3833.859	3470.83	3987.21
A-A' to B-B'	193.79	222.63	40.18	7786.82	8945.311	8098.29	9303.12
B-B' to C-C'	181.05	200.08	49.17	8901.51	9837.002	9257.58	10230.48
C-C' to D-D''	175.56	217.68	47.90	8409.90	10427.6	8746.29	10844.70
D-D' to E-E'	179.12	164.03	41.82	7491.23	6860.124	7790.88	7134.53
E-E' to F-F'	208.91	327.90	34.81	7273.00	11415.37	7563.92	11871.99
F-F' to G-G'	197.41	262.50	35.80	7066.55	9396.624	7349.21	9772.49
G-G' to H-H'	191.28	92.53	36.19	6922.07	3348.703	7198.95	3482.65
H-H' to LB	192.96	104.71	24.56	4738.61	2571.337	4928.15	2674.19
Total	**1675.12**	**1770.16**		**61927.02**	**66635.93**	**64404.10**	**69301.37**

Pre-Feasibility mineral Resource (222)

section Line	Section Area		Strike Influence	Volume (Cum)		Blocked Reserves (Tonnes)	
	Blocked in (UPL)	Blocked Under 45º		Blocked in (UPL)	Blocked Under 45º	Blocked in (UPL)	Blocked Under 45º
LB to A-A'	102.93	316.36	21.53	2215.73	6810.1425	2304.36	7082.55
A-A' to B-B'	128.66	395.45	40.18	5169.83	15889.693	5376.63	16525.28
B-B' to C-C'	121.06	352.14	49.17	5951.83	17313.431	6189.90	18005.97
C-C' to D-D''	117.55	364.11	47.90	5630.93	17441.619	5856.17	18139.28
D-D' to E-E'	119.58	304.64	41.82	5001.06	12741.008	5201.10	13250.65
E-E' to F-F'	139.10	481.41	34.81	4842.69	16759.59	5036.40	17429.97
F-F' to G-G'	132.91	400.55	35.80	4757.73	14337.992	4948.04	14911.51
G-G' to H-H'	128.01	179.84	36.19	4632.47	6508.2819	4817.77	6768.61
H-H' to LB	128.82	210.93	24.56	3163.39	5179.9525	3289.92	5387.15
Total	**1118.62**	**3005.44**		**41365.66**	**112981.71**	**43020.29**	**117500.98**

Production

The year wise production schedule, quantities of waste to be generated from different benches in each pit is shown in **Table 2.2.**

Table 2.2: Details of the production (Year wise)

I Year (2020 –2021): Pit -1

Pit - I											
Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1133	1127	139.00	13.88	3.00	6.00	11575.92	9569.43	9569.43	0.00	1929.32	10418.33
1130	1123	132.00	14.09	3.00	7.00	13019.16	11084.88	10430.57	654.31	1859.88	11200.61
						24595.08	**20654.31**	**20000.00**	**654.31**	**3789.20**	**21618.94**

II Year (2021 –2022): Pit -1

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1130	1123	132.00	14.09	3.00	7.00	13709.57	654.31	654.31	0.00	0	661.15
1127	1120	135.00	13.70	3.00	7.00	12946.50	11023.02	11023.02	0.00	1849.50	11836.80
1124	1118	158.00	16.01	3.00	6.00	15177.48	12546.72	12322.67	224.05	2529.58	13415.81
						41833.55	**24224.05**	**24000.00**	**224.05**	**4379.08**	**25913.76**

III Year (2022 –2023): Pit -1

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1124	1118	158.00	16.01	3.00	6.00	15177.48	224.05	224.05	0.00	0	239.57
1121	1115	164.00	19.92	3.00	6.00	19601.28	16203.72	16203.72	0.00	3266.88	17641.15
1118	1113	137.00	14.78	3.00	5.00	10124.30	8018.45	7572.23	446.22	2024.86	8413.59
						44903.06	**24446.22**	**24000.00**	**446.22**	**5291.74**	**26294.31**

IV Year (2023 –2024): Pit -2

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1187	1179	103.00	4.10	3.00	8.00	3378.40	2939.21	2939.21	0.00	422.30	3125.02
1184	1176	111.00	3.95	3.00	8.00	3507.60	3051.61	3051.61	0.00	438.45	3244.53
1181	1173	110.00	4.00	3.00	8.00	3520.00	3062.40	3062.40	0.00	440.00	3256.00
1178	1170	109.00	4.86	3.00	8.00	4237.92	3686.99	3686.99	0.00	529.74	3920.08
1175	1167	227.00	6.89	3.00	8.00	12512.24	10885.65	10259.79	625.86	1564.03	10908.40
						27156.16	**23625.86**	**23000.00**	**625.86**	**3394.52**	**24454.03**

V Year (2023 – Dec. 2024): Pit -2

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1175	1167	227.00	6.89	3.00	8.00	12512.24	625.86	625.86	0.00	0	627.17
1172	1164	109.00	6.83	3.00	8.00	5955.76	5181.51	5181.51	0.00	744.47	5509.08
1169	1161	111.00	6.61	3.00	8.00	5869.68	5106.62	5106.62	0.00	733.71	5429.45
1166	1157	115.00	6.43	3.00	9.00	6655.05	5886.02	5886.02	0.00	739.45	6211.38
1163	1154	119.00	6.75	3.00	9.00	7229.25	6393.87	6199.99	193.88	803.25	6542.70
						38221.98	**23193.88**	**23000.00**	**193.88**	**3020.88**	**24319.78**

Production

The year wish quantities of soapstone to be generated from different pits is as below-

Year	ROM (Tonnes)
1st Year	20000
2nd Year	24000
3rd year	24000
4th Year	23000
5th Year	23000
Total	**114000**

Man Power Requirement:

The mine manager cum mining engineer should be a graduate mining engineer holding at least second class manager's certificate. The mate-cum-blaster should hold mining mate certificate of competency. Owing to the topography of the area, which is a rough terrain, Soap Stone mining activity is needed as the primary source of income for the locals. The mine will provide employment to about 59 workers. It will provide employment to the people residing in vicinity and also indirectly by the development of supporting infrastructure and

allied activities. The manpower requirement for the proposed project is shown in **Table 2.3** along with the breakup, who will be utilized for excavation & loading of minerals into trucks.

Table 2.3: Details of Manpower requirement

S. No.	Category	Numbers
Skilled		
1.	Mine Manager/DGMS	1
2.	Supervisor	2
3.	Time Keeper	1
4.	Office Assistant/Dispatch Supervisor	2
Unskilled		
5.	Daily wages workers	53
Total		**59**

*****Additional workers include workers for dust suppression purpose, providing water for drinking & domestic purpose, for maintenance of roads, etc.

Solid Waste Generation & its Disposal

The top soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and stacked separately. The soil intermixed with fragments and interburden rejects are low grade magnesite. Part of these rejects will be utilized in construction and maintenance of retaining walls, parapet walls, check dams and other construction works. About 36780 cum of rejects will be used for this task, and in dump yard remaining rejects about 85820 cum will be backfilled.

The quantity of top soil, interburden and Mineral rejects to be generated in each year is shown in **Table 2.4**.

Table 2.4: Details of Top soil, interburden and Mineral rejects generated

Year	Top Soil (cum)	Interburden (cum)	Mineral Rejects (cum)
I	3789.2	21618.94	25408.14
II	4379.08	25913.76	30292.84
III	5291.74	26294.31	31586.05
IV	3394.52	24454.03	27848.55
V	3020.88	24319.78	27340.66
Total	**19875.42**	**122600.82**	**142476.24**

Storage and preservation of top soil:

The soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and loaded manually to stack on the dump yard. Stacking will commence at RL 1123m to RL 1133m in first year, RL 1118 to RL 1130m in second year, RL 1113 to RL 1124 in third year, RL 1165 to 1187m in fourth year & RL 1154 to 1175m in fifth year. The spread of stacks will be undertaken through mechanically and manually both & average dump height kept 1.5m. In first year 240 m^2 areas was earmarked for stacking of soil with 1.5m height. In second year it is 260 m^2 areas. Similarly in third, fourth & in fifth year 250 m^2, 270 m^2 and 230 m^2 area have been respectively earmarked for stacking of soil with 1.5m average height. The year wise spread of stack is given below:

Soil stack	I year	II year	III year	IV year	V year
Length	24m	26m	25m	27m	24m

Width	10m	10m	10m	10m	10m
Average height	1.5m	1.5m	1.5m	1.5m	1.5m
Angle of repose	36^0	36^0	36^0	36^0	36^0

Restriction on mining:

- As per the Uttarakhand mining policy no mining operation shall be carried out within 100 m of railway line & bridge.
- The mining will not intercept the ground water table.
- The contractors will abide by Uttarakhand Minor Mineral Concession Rules, 2001 and guidelines contained in the River/Stream Bed Mining Policy and Land forms studies were taken into consideration.
- The contractors will abide at the time of mining with the term and condition as laid down under Mines Act, 1952 and Mines & Minerals (Regulation and Development) Act, 1957, Forest (Conservation) Act, 1980 and the stipulations of the EIA/EMP.
- The contractor will abide by provision of Mines Act, 1952, Interstate Migrant Work Man Act, the contractor with the satisfaction of competent authority will provide drinking water, rest shelter, first aid box, welfare facilities as Central and State Govt. labor laws.

2.10 SITE FACILITIES AND UTILITIES

Water Supply

Water requirement for the proposed project will be provided for the workers for drinking & domestic purpose. Water will also be provided for dust suppression. Fresh water will be only used for drinking purpose. The break up for water requirement is shown in **Figure 2.3.**

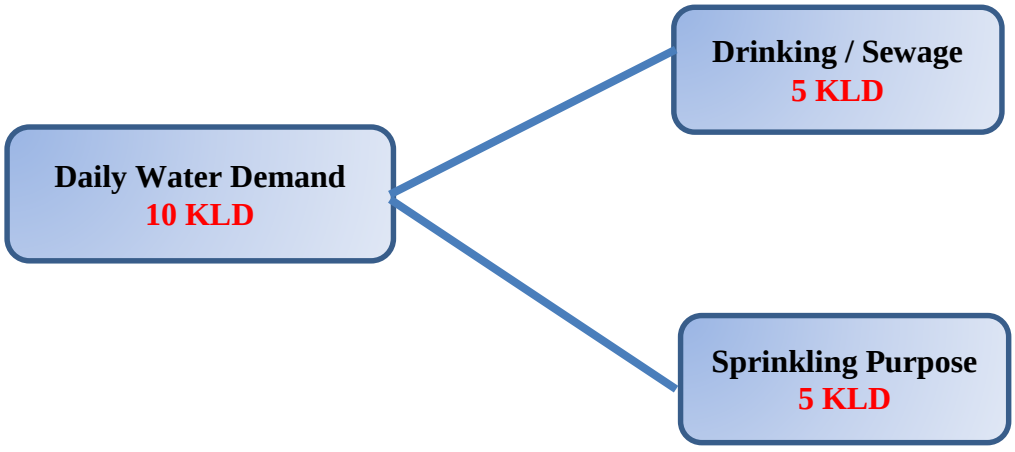


Figure 2.3: Details of water requirement

Temporary Rest Shelter:

A temporary rest shelter will be provided for the workers near to the site for rest.

- Provisions will also be made for following in the rest shelter
- First aid box along with anti-venoms to counteract poison produced by certain species of small insects, if any.
- Sanitation facility i.e. septic tank or community toilet facility will be provided for the workers.

2.11 STATUTORY REQUIREMENTS

It is accepted that effective resource management cannot be done in isolation. The proponent therefore vigorously pursues approaches towards coordination and integration where possible, so as to lead to coordinated regulatory systems.
Various acts dealing with matters relating to the conservation and protection of the environment and which a holder of a mining authorization must also take cognizance of include inter alia, the following:

- Uttarakhand Mineral Policy, 2011
- Uttarakhand Minor Mineral Concession Rules, 2001
- The Mines Act, 1952
- The Mines and Mineral (Development and Regulation) Act, 1957
- Mines Rules, 1955
- Mineral Concession Rules, 1960
- Mineral Conservation and Development Rules, 1988
- The Water (Prevention and Control of Pollution) Act, 1974
- The Air (Prevention and Control of Pollution) Act, 1981
- The Environment (Protection) Act, 1986
- The Forest (Conservation) Act, 1980

2.12 OTHER MINE LEASE PRESENT WITHIN THE STUDY AREA

The other soapstone mine sites which are present within 500 m from the proposed mine and in the study area (10 km) has been presented in **Table 2.5**. The mine lease sites present in the core zone (100 m) and the study area marked in Google earth and SOI toposheet has been shown in **figure 2.4** and **2.5** respectively

Table 2.5: Details of other soapstone mines present in the study area (10 km radius) from the proposed soapstone mine

Sr. No.	Mine No. Marked on SOI Topo Sheet & Google Earth Map	Details Of Mine	Area (ha)
1.	M2	Shri Ummed Singh, Kalakoti, Village Gadva, Kanda, Bageshwar (Kalakoti Mine)	4.795
2.	M4	Shri Harish Chandra Bhatt, Kanda, Bageshwar (Bakhet Shopstone mine)	9.50
3.	M7	Shri Prem Dhami, Kanda, Bageshwar (Dhpti Shopstone mine)	4.843
4.	M11	Shri Umesh Chandra Pandey, Kanda, Bageshwar (Chilet pali Chak titoli Shopstone mine)	4.822
5.	M18	Shri Mangal Singh Dhami, Kanda, Bageshwar (Jay Dholinaag Enterprises)	4.27
6.	M23	Shri Mahesh Chandra Pant, Kanda, Bageshwar (Sirmoli Mines)	4.588
7.	M24	Shri Ganga Prasad Pandey, Banstoli, Kanda, Bageshwar	1.95 (acre)
8.	M30	Shri Fateh Singh Parihar, Kanda, Bageshwar (Fateh Singh Parihar mines)	4.491
9.	M33	Shri Ram Bharat mines, Village – Ghapoli, Kanda, Bageshwar	30.075
10.	M34	Shri Govind Singh Rotela, Village – Pali Chak Titoli, Kanda, Bageshwar	4.620
11.	M36	M/S Shriram Bharat Mines	5.674
12.	M37	Smt Nadita Tewari	23.0
13.	M40	Shri Girish Chandra Petshali S/O Shri Jugal Kishor Petshali	1.925
14.	M44	Shri Sher Singh, Ghapola	3.60 area
15.	M50	Shri Harish Chandra Lohni S/O Nandaballabh Lohni	4.640
16.	M52	Shri Subodh Lal Sah S/O Shri Girdhari Lal Sah	4.049
17.	M63	Shri Ramesh Singh Majila S/O Shri Nain Singh Majila	4.056
18.	M65	Shri Kuldeep Singh Bisth S/O Shri Deewan Singh	3.70
19.	M71	Shrimati Geeta Boriyal	4.698
20.	M72	Shri Rahul Varshney, Ghapoli	30.07 acre
21.	M75	Shri Govind Singh Rotela	4.620
22.	M76	Shri Ramesh Singh	9.810

Figure 2.4: Other Mine sites present in the core and study area from the proposed project marked in Google earth

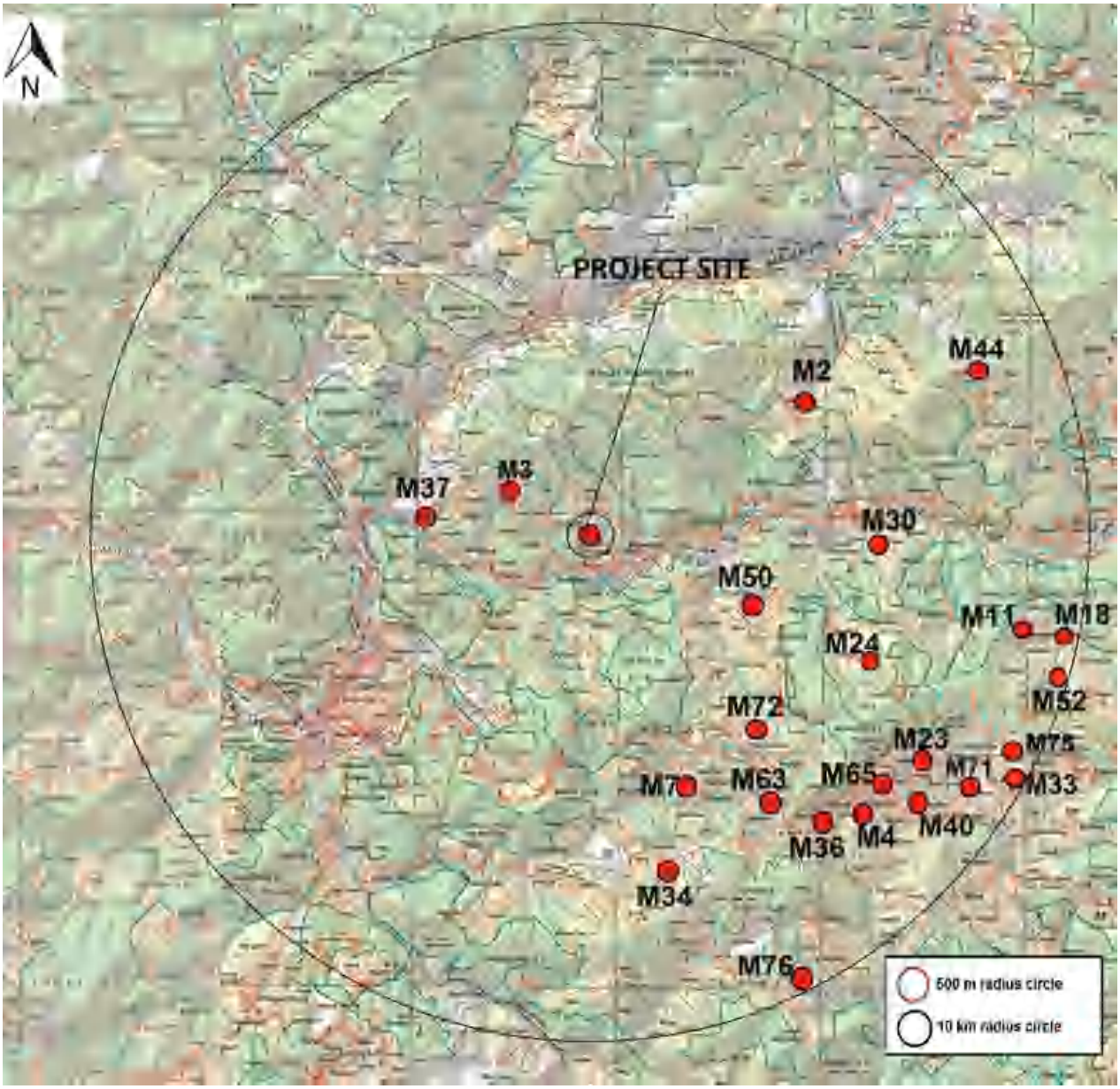


Figure 2.5: Other Mine site present in the core and study area from the proposed project marked in SOI Toposheet

CHAPTER 3: DESCRIPTION OF THE ENVIRONMENT

3.1 PREAMBLE

Baseline environmental studies were conducted to monitor micro-meteorology, Ambient Air Quality, Ground and Surface water quality, Noise Levels, present land use pattern, soil quality, biological environment, socio-economic status, health status etc. within a study area of 10 Km. radius around the project site. To establish the existing physical, natural, socio-economic and cultural environment condition of the study area, data has been collected through primary sources (consultation with the key persons) in addition to information gathered from various secondary sources.

All project relevant secondary data has been collected on regional environmental and social features from various reports pertaining to Government Agencies / Institutions and through literature reviews. Relevant data has been compiled from the census data of 2011, for obtaining details regarding the demographic and socio-economic features in the study area.

The main aim of the impact assessment study depends mainly on two factors. One of the estimation of impact from proposed project on the environment and second one is the assessment of the environmental condition. Both are key factors to arrive at the post project scenario. The estimated impact due to the mine lease area can be superimposed over the existing conditions to arrive at the post project scenario. The scope of the baseline studies includes detailed characterization of following environmental components, which are most likely to be influenced by the setting up of a mine lease area.

- Metrological conditions
- Ambient Air Quality
- Noise levels
- Water Quality (Surface and Ground water)
- Soil Quality
- Socio economic status

3.2 STUDY AREA AND PERIOD

The base-line data has been collected at the project site and 10 km buffer zone for prominent environmental attributes like Ambient Air Quality, Ambient Noise Level, Water quality and Soil profile. Primary and Secondary data has also been collected for other environmental attributes for the preparation of EIA/EMP report. The baseline study for the project was conducted during Dec 2020 to Feb 2021 (pre monsoon). The baseline data monitoring procedures conforms to the requirement of EIA Notification, 2006 (as amended on 14.09.2006). The monitoring and analysis was done through Noida Testing Laboratory which is NABL and MoEF&CC accredited.

Study area map comprising direct impact area is shown in **Figure 3.1**

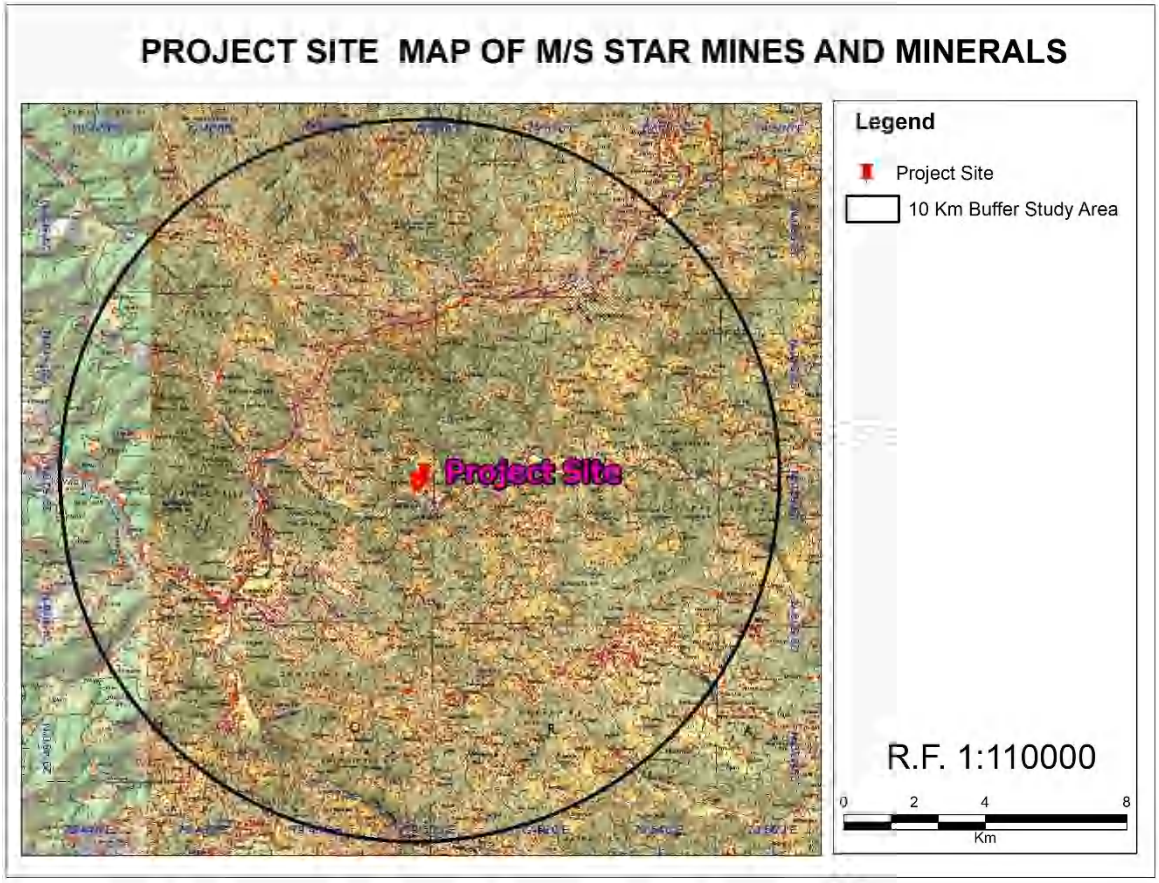


Figure 3.1: Study Area Map (10 km radius)

3.3 METHODOLOGY / APPROACH

3.3.1 Methodology of EIA

Environmental Impact Assessment study has been conducted within an area of 10 km radius around the ML area. The various steps involved in the study for this project are divided into three following phases.

- Identification of significant environmental parameters and assessing the baseline status within the study area and assessment of pollutants envisaged due to proposed activities and the polluting activities in the study area on various environmental parameters.
- Evaluation of impacts after superimposing the predicted pollution load over the baseline condition.
- Prepare Environmental Management Plan for mitigation of impacts on environment arising out of the proposed activity.

3.3.2 Approach

Environmental monitoring in order to establish the baseline environmental status of the study area for Ambient air, Water, Soil, Land use, ecology, etc.

- Collection of site specific meteorological data at the mine site.
- Carrying out a detailed biological study for the Core and Buffer Zone.
- Literature review that includes identification of relevant data and articles from various publications, various government agencies and other sources for socio-economy, meteorology, land use, ecology, etc.
- Identify various existing pollution loads due to mining and domestic activities in the buffer zone.
- Evaluate the predicted impacts on the various environmental attributes in the study area by using scientifically developed and widely accepted Environmental Impact Assessment (EIA) Methodologies.
- Preparation of an Environmental Management Plan (EMP) outlining the measures for improving the environmental quality.

Accordingly, field studies were carried out during the study period (Dec 2020 to Feb 2021) to establish the existing baseline conditions.

3.4 METEOROLOGICAL CONDITIONS

Meteorology is the key to understand the air quality. The essential relationship between meteorology and atmospheric dispersion involves the wind in the broadest sense. Wind fluctuations over a very wide range of time, accomplish dispersion and strongly influence other processes associated with them.
A meteorological station was set up at the proposed mine premises. Meteorological data was generated during the pre-monsoon monitoring period.

The following parameters were recorded at hourly intervals continuously during monitoring period, except rainfall which was recorded on daily basis.

- Wind speed
- Wind Direction
- Air Temperature
- Rainfall

3.4.1 Climate of the project district

The average temperature for the year in Bageshwar is 20.4 °C (68.8 °F). The warmest month, on average, is June with an average temperature of 27.3 °C (81.2 °F). The highest temperature ever recorded was 38 °C, recorded on 5 June 2017. The coolest month on average is January, with an average temperature of 11 °C (51.8 °F). The average amount of precipitation for the year in Bageshwar is 48.1" (1221.7 mm). The month with the most precipitation on average is July with 13.0" (330.2 mm) of precipitation. The month with the least precipitation on average is November with an average of 0.2" (5.1 mm). There is an average of 63.6 days of precipitation, with the most precipitation occurring in August with 15.3 days and the least precipitation occurring in November with 0.8 days.

3.4.2 Wind speed/Direction

Generally, light to moderate winds prevail throughout the year with speed ranging from 1 to 19 kmph. Winds were light and moderate particularly during the morning hours, while during the afternoon hours the winds were stronger. The wind rose diagram developed during the study period is shown in **Figure 3.2** reveals that pre-dominant wind direction occurs mostly blowing from west direction in project site and the average wind speed is 0.6 m/s.

Table 3.1(a) shows the Meteorological Data Parameters at the project site whereas **Table 3.1 (b)** shows the Meteorological Data Parameters of Mukteshwar district (Nearest IMD from the proposed project) for the months of Dec 2020 to Feb 2021.

Table-3.1 (a): Meteorological Data Parameters at Project site for the months of Dec 2020 to Feb 2021

Date	Temperature, deg C			Humidity, %			Pressure, hPa			Wind Speed, km/Hr	Predominant Wind Direction	Rainfall mm
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Avg		
December	2	26	16	44	63	58	774.2	776.8	775.2	1.4	W	21
January	3	24	17	50	62	56	773.6	776.9	775.9	1.8	NE	45.6
February	4	30	18	51	60	57	771.8	776.1	771.2	2.4	W	61.5

Source: Weather station

Table-3.1 (b): Meteorological Data Parameters at Mukteshwar district (Nearest IMD from the proposed project) for the months of Dec 2020 to Feb 2021

Date	Temperature, deg C			Humidity, %			Pressure, hPa			Wind Speed, km/Hr	Predominant Wind Direction From	Rainfall mm
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Avg		
December	-1.3	19.2	14.3	46	62	58	775.9	777.2	776.4	1.8	W	22
January	-2.7	18.5	12.7	53	63	57	774.0	775.0	774.5	2.1	NE	46.7
February	-2.0	19.5	13.4	55	63	58	773.5	774.4	773.9	2.5	W	65.2

Source: IMD

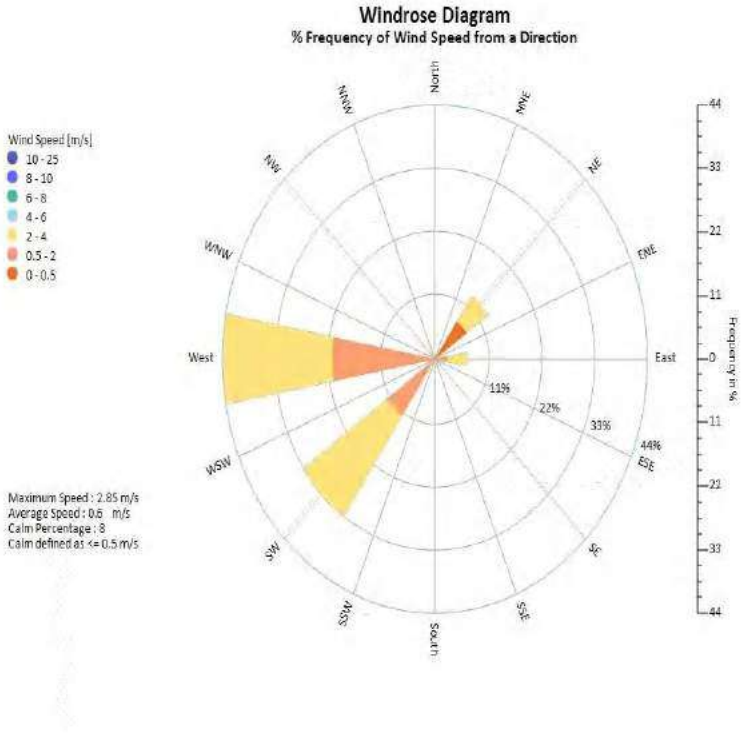


Figure 3.2: Wind-rose of the project site (Dec 2020 to Feb 2021)

3.5 AIR ENVIRONMENT

3.5.1 Ambient Air Quality

The Ambient Air Quality was monitored in the impact area as per MoEF&CC guidelines and as per approved ToR by SEAC, Uttarakhand. The study area represents mostly rural environment. The prime objective of the baseline air quality study was to assess the ambient air quality of the mining lease area.

3.5.2 Methodology Adopted for the Study

The baseline status of the ambient air quality has been assessed through a scientifically designed ambient air quality network. The design of monitoring network in the air quality surveillance programme has been based on the following consideration.

- Meteorological parameters covering upwind, downwind and cross wind direction
- Topography of the study area
- Representative of regional background air quality for obtaining baseline status
- Representative of likely impact areas.

Ambient Air Quality Monitoring (AAQM) stations were set up at 5 locations, one in core zone and the other four in the study area of 10 km with due consideration to the above mentioned points. AAQM locations were selected in downwind and upwind direction of the

proposed mining lease area covering core and buffer zones. The details of the monitoring stations are given in **Figure 3.3** and shown in **Table-3.2**.

Ambient air quality monitoring was carried out twice a week with a frequency of 24 hours for 12 weeks during the study period. The common air pollutant namely Particulate Matter-10 (PM_{10}), Particulate Matter-2.5 ($PM_{2.5}$), Sulphur-dioxide (SO_2) and Nitrogen dioxide (NO_2) has been measured through a planned field monitoring. The baseline values of the air pollutants of concern are presented in **Tables 3.3 (a) to Tables 3.3 (d)** below statistical parameters like minimum, maximum, average and 98th percentiles have been computed from the observed field data for all sampling stations**.** These are compared with the standards prescribed by National Ambient Air Quality Standards 2009.

Table 3.2: Location of Ambient Air Quality Monitoring Stations

S. No.	Location Name	Direction	Distance from the project site (in km)
AAQ1	Khabdoli	West	8.1
AAQ2	Project Site	NA	0
AAQ3	Parol	East	7.02
AAQ4	Harsila	NW	4.54
AAQ5	Simkhet	South	4.66

Table-3.3 (a): Ambient Air Quality in Khabdoli**, PM2.5, PM_{10}, SO_2, NOx**

Ambient Air Quality Data December 2020 to February 2021				Location: AQ 1 (Khabdoli)	
S.No	Date	PM2.5,µg/m3	PM10,µg/m3	SO_2 µg/m3	Nox ,µg/m3
		Gravimetric	IS:5182:Pt-23	IS:5182:Pt-2	IS:5182:Pt-6
1	01.12.20	25.6	45.6	5.2	10.8
2	03.12.20	24.2	48.9	5.0	11.6
3	11.12.20	27.2	44.2	5.5	9.8
4	13.12.20	28.3	53.5	5.4	8.6
5	17.12.20	20.5	54.2	5.6	10.3
6	19.12.20	18.8	47.6	5.4	9.6
7	27.12.20	16.2	49.5	5.2	9.2
8	29.12.20	15.9	50.6	5.3	10.5
9	02.01.21	18.6	51.2	5.0	11.5
10	04.01.21	21.5	53.6	5.4	12.8
11	12.01.21	22.2	54.0	5.5	13.2
12	14.01.21	24.6	45.2	5.3	13.3
13	18.01.21	25.8	47.8	5.2	10.8
14	20.01.21	28.0	44.5	5.6	9.9
15	28.01.21	23.2	50.2	5.4	10.6
16	30.01.21	24.4	51.6	5.2	10.2
17	01.02.21	19.6	54.0	5.3	9.4
18	03.02.21	20.3	50.2	5.0	9.9

19	11.02.21	21.6	52.5	5.4	8,6
20	13.02.21	25.4	48.6	5.5	7.6
21	17.02.21	27.7	49.4	5.3	5.7
22	19.02.21	26.8	45.8	5.2	6.8
23	26.02.21	24.4	53.2	5.1	9.2
24	28.02.21	21.2	50.5	5.0	8.4
Minimum		**15.9**	**44.2**	**5.0**	**5.7**
Maximum		**28.3**	**54.2**	**5.6**	**13.3**
Average		**23.0**	**49.9**	**5.3**	**10.0**
98 Percentile		**28.2**	**54.1**	**5.6**	**13.3**
NAAQS, For 24 hourly monitoring		**60**	**100**	**80**	**80**

Table-3.3 (b): Ambient Air Quality in Project Site, PM2.5, PM_{10}, SO_2, NOx

Ambient Air Quality Data December 2020 to February 2021				Location: AQ 2 (Project Site)	
S.No	Date	PM2.5,µg/m3	PM10,µg/m3	SO_2 µg/m3 ,	Nox ,µg/m3
		Gravimetric	IS:5182:Pt-23	IS:5182:Pt-2	IS:5182:Pt-6
1	01.12.20	25.5	44.6	5.2	16.4
2	03.12.20	26.2	47.5	5.5	13.2
3	11.12.20	24.0	49.8	5.9	14.2
4	13.12.20	26.6	45.5	5.4	15.5
5	17.12.20	25.5	50.2	5.0	14.3
6	19.12.20	20.4	53.2	5.7	13.2
7	27.12.20	19.8	43.1	5.0	14.8
8	29.12.20	24.6	50.6	5.2	12.6
9	02.01.21	25.5	52.5	5.5	15.8
10	04.01.21	27.1	48.2	5.6	16.6
11	12.01.21	26.4	47.5	5.2	6.9
12	14.01.21	27.1	49.2	5.8	7.0
13	18.01.21	25.8	50.2	5.9	8.8
14	20.01.21	24.2	47.8	5.5	14.2
15	28.01.21	23.7	46.2	5.4	15.5
16	30.01.21	25.3	44.5	5.6	14.3
17	01.02.21	23.4	50.5	5.7	14.2
18	03.02.21	22.2	51.2	5.3	15.5
19	11.02.21	19.8	45.4	5.4	14.3
20	13.02.21	19.7	46.7	5.5	13.2
21	17.02.21	21.6	50.5	5.2	14.8
22	19.02.21	22.8	51.5	5.5	12.6
23	26.02.21	24.5	49.0	5.4	15.8

24	28.02.21	26.7	48.2	5.7	16.0
Minimum		**19.7**	**43.1**	**5.0**	**6.9**
Maximum		**27.1**	**53.2**	**5.9**	**16.6**
Average		**24.1**	**48.5**	**5.5**	**13.7**
98 Percentile		**27.1**	**52.9**	**5.9**	**16.5**
NAAQS, For 24 hourly monitoring		**60**	**100**	**80**	**80**

Table-3.3 (c): Ambient Air Quality in Parol, PM2.5, PM_{10}, SO_2, NOx

Ambient Air Quality Data December 2020 to February 2021				**Location: AQ 3 (Parol)**	
S.No	**Date**	**PM2.5,µg/m3**	**PM10,µg/m3**	**SO_2 µg/m3**	**Nox ,µg/m3**
		Gravimetric	**IS:5182:Pt-23**	**IS:5182:Pt-2**	**IS:5182:Pt-6**
1	01.12.20	22,5	45.5	5.5	11.8
2	03.12.20	21.8	50.2	5.4	12.2
3	11.12.20	20.6	52.5	5.2	13.2
4	13.12.20	22.5	43.1	5.7	9.8
5	17.12.20	23.3	50.6	5.5	10.2
6	19.12.20	21.8	52.5	5.0	11.2
7	27.12.20	19.8	36.2	5.2	12.6
8	29.12.20	20.6	47.5	5.6	10.6
9	02.01.21	13.2	49.2	5.5	9.8
10	04.01.21	12.4	50.2	5.2	11.6
11	12.01.21	21.5	47.8	5.3	10.2
12	14.01.21	22.5	46.2	5.5	9.8
13	18.01.21	23.0	44.5	5.4	10.2
14	20.01.21	20.8	50.5	5.6	11.6
15	28.01.21	17.6	51.2	5.2	12.4
16	30.01.21	16.8	50.6	5.7	13.2
17	01.02.21	17.0	52.5	5.2	10.8
18	03.02.21	16.5	48.2	5.0	9.6
19	11.02.21	19.0	47.5	5.5	7.3
20	13.02.21	18.2	49.2	5.4	10.8
21	17.02.21	20.6	50.2	5.2	11.3
22	19.02.21	21.5	47.8	5.5	12.5
23	26.02.21	22.3	46.2	5.6	10.4
24	28.02.21	23.0	44.5	5.0	9.6
Minimum		**12.4**	**36.2**	**5.0**	**7.3**
Maximum		**23.3**	**52.5**	**5.7**	**13.2**
Average		**19.8**	**48.1**	**5.4**	**10.9**
98 Percentile		**23.2**	**52.5**	**5.7**	**13.2**

NAAQS, For 24 hourly monitoring	**60**	**100**	**80**	**80**

Table-3.3 (d): Ambient Air Quality in the Harsila, PM2.5, PM_{10}, SO_2, NOx

Ambient Air Quality Data December 2020 to February 2021				**Location: AQ 4 (Harsila)**	
S.No	**Date**	**PM2.5,µg/m3**	**PM10,µg/m3**	**SO_2 µg/m3**	**NOx ,µg/m3**
		Gravimetric	**IS:5182:Pt-23**	**IS:5182:Pt-2**	**IS:5182:Pt-6**
1	01.12.20	20.7	40.8	5.3	10.5
2	03.12.20	19.5	44.6	5.2	9.2
3	11.12.20	18.2	35.5	5.1	11.6
4	13.12.20	16.6	37.8	5.4	13.5
5	17.12.20	15.2	39.0	5.0	14.0
6	19.12.20	14.6	40.8	5.2	14.1
7	27.12.20	14.3	45.2	5.3	11.6
8	29.12.20	15.8	44.6	5.2	12.5
9	02.01.21	16.2	42.3	5.1	12.0
10	04.01.21	21.3	37.8	5.2	9.8
11	12.01.21	20.6	40.2	5.3	11.2
12	14.01.21	19.8	41.6	5.0	12.6
13	18.01.21	18.2	43.2	5.3	14.0
14	20.01.21	21.0	45.2	5.2	13.8
15	28.01.21	17.6	44.8	5.4	11.8
16	30.01.21	15.5	41.6	5.0	12.5
17	01.02.21	16.8	40.2	5.2	13.6
18	03.02.21	17.2	34.5	5.1	12.2
19	11.02.21	18.5	36.8	5.4	10.2
20	13.02.21	20.2	44.2	5.3	9.8
21	17.02.21	21.0	45.0	5.2	10.2
22	19.02.21	21.3	39.7	5.1	11.5
23	26.02.21	19.7	36.4	5.0	10.8
24	28.02.21	17.2	40.7	5.2	9.6
Minimum		**14.3**	**34.5**	**5.0**	**9.2**
Maximum		**21.3**	**45.2**	**5.4**	**14.1**
Average		**18.2**	**40.9**	**5.2**	**11.8**
98 Percentile		**21.3**	**45.2**	**5.4**	**14.1**
NAAQS, For 24 hourly monitoring		**60**	**100**	**80**	**80**

Table-3.3 (e): Ambient Air Quality in the Simkhet, PM2.5, PM_{10}, SO_2, NOx

Ambient Air Quality Data December 2020 to February 2021				Location: AQ 5 (Simkhet)	
S.No	Date	PM2.5,µg/m3	PM10,µg/m3	SO_2 µg/m3 ,	NOx ,µg/m3
		Gravimetric	IS:5182:Pt-23	IS:5182:Pt-2	IS:5182:Pt-6
1	01.12.20	27.3	52.4	8.3	13.8
2	03.12.20	27.0	66.3	8.3	12.4
3	11.12.20	27.5	62.3	7.8	15.1
4	13.12.20	30.7	68.2	7.3	13.6
5	17.12.20	30.3	63.7	7.8	14.5
6	19.12.20	30.2	62.8	7.8	14.5
7	27.12.20	29.4	64.5	8.3	13.8
8	29.12.20	27.3	60.4	7.8	14.5
9	02.01.21	27.0	66.3	7.0	13.5
10	04.01.21	30.1	63.9	8.3	14.5
11	12.01.21	28.2	60.5	7.8	14.5
12	14.01.21	29.4	53.4	7.9	14.5
13	18.01.21	27.0	68.2	8.9	13.6
14	20.01.21	29.0	57.0	7.9	13.2
15	28.01.21	28.2	68.2	7.9	14.0
16	30.01.21	30.2	55.6	7.9	14.5
17	01.02.21	28.2	68.2	8.5	14.5
18	03.02.21	27.4	58.2	7.8	14.5
19	11.02.21	29.5	68.5	7.8	13.5
20	13.02.21	27.3	53.2	8.0	14.5
21	17.02.21	29.5	66.3	8.0	13.5
22	19.02.21	26.6	52.8	8.5	14.5
23	26.02.21	26.9	55.8	8.0	14.6
24	28.02.21	22.8	59.7	7.5	16.3
Minimum		**22.8**	**52.4**	**7.0**	**12.4**
Maximum		**30.7**	**68.5**	**8.9**	**16.3**
Average		**28.2**	**61.5**	**8.0**	**14.2**
98 Percentile		**30.5**	**68.4**	**8.7**	**15.7**
NAAQS, For 24 hourly monitoring		**60**	**100**	**80**	**80**

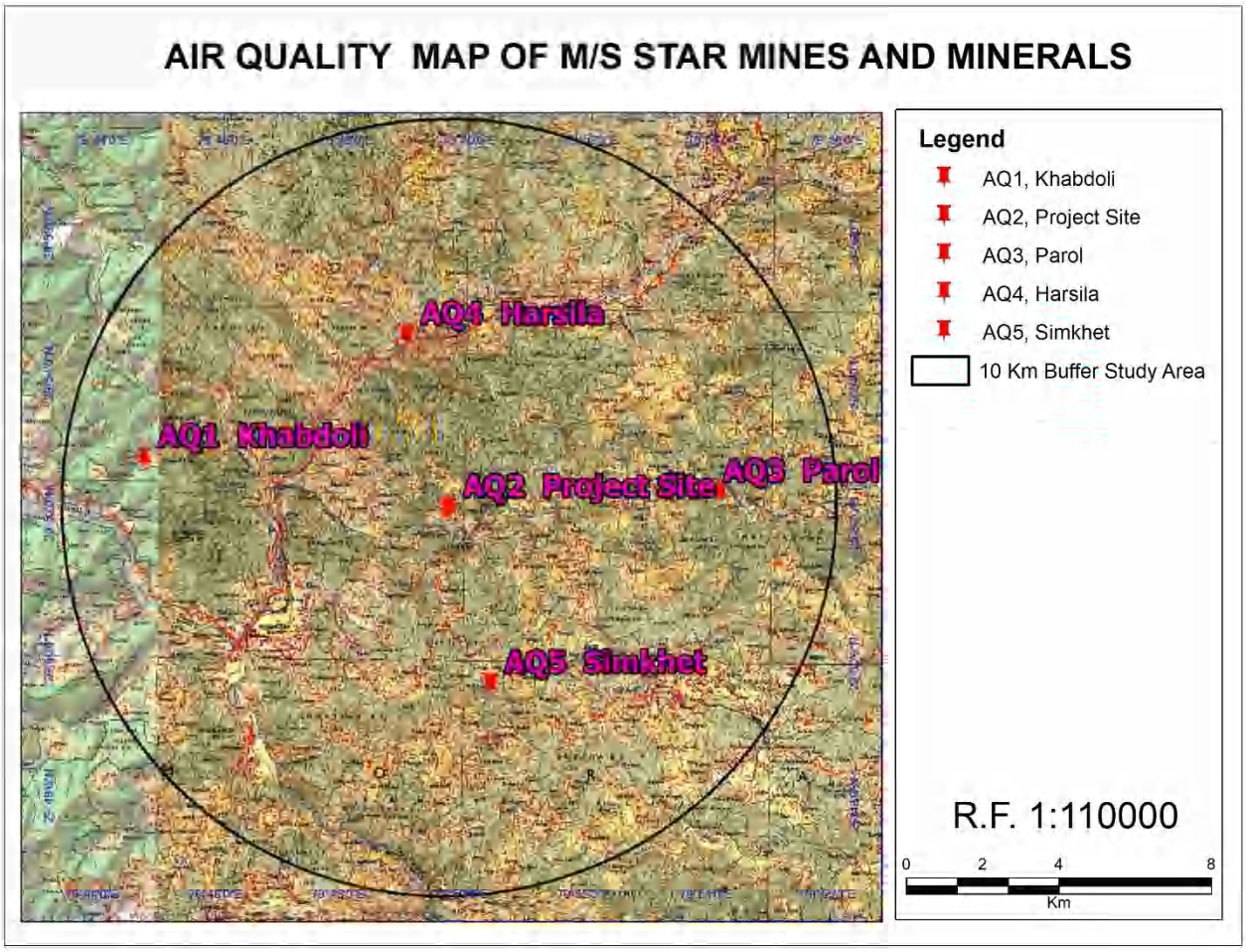


Figure 3.3 Ambient Air Quality Monitoring Locations

Air Monitoring photograph

Near Project Site

3.5.3 Baseline Scenario

a) Suspended Particulate Matter (PM10)

Suspended particulate matter in general terms is the particulate matter in suspension in ambient air. It includes dust and smoke particles etc. In general some of the important sources of suspended particulate matter are mines. The following sources of suspended particulate matter in the study area are identified:

- Emission due to vehicular movement
- Dust generation from mining operations

The minimum and maximum level of PM_{10} recorded within the study area was in the range of 34.5 µg/m^3 to 68.5 µg/m^3 with the 98th percentile ranging between 45.2 µg/m^3 to 68.4 µg/m^3.

The 24 hourly average values of PM_{10} were compared with the National Ambient Air Quality Standards (NAAQS) and found that all sampling stations recorded in the study area are within the applicable limits i.e., 100 µg/m^3 for PM_{10} in Industrial, Residential, Rural and other areas.

b) Particulate Matter (PM2.5)

Fine particulate matter in general terms is the particulate matter in suspension in ambient air. It includes dust, smoke etc. In general some of the important sources of suspended particulate matter are mines. The following sources of suspended particulate matter in the study area are identified:

- Emission due to vehicular movement
- Dust generation from mining operations

The minimum and maximum level of $PM_{2.5}$ recorded within the study area was in the range of 12.4 µg/m^3 to 30.7 µg/m^3 with the 98th percentile ranging between 21.3 µg/m^3 to 30.5 µg/m^3.

The 24 hourly average values of $PM_{2.5}$ were compared with the National Ambient Air Quality Standards (NAAQS) and found that all sampling stations recorded in the study area are within the applicable limits i.e., 60 µg/m^3 for $PM_{2.5}$ in Industrial, Residential, Rural and other areas.

c) Sulphur Dioxide (SO2)

Sulphur dioxide gas is an inorganic gaseous pollutant. Sulphur dioxide emissions are expected to be emitted wherever combustion of any fuel containing Sulphur takes place. The Sulphur in the fuel will combine with oxygen to form Sulphur dioxide. The following sources of Sulphur dioxide in the study area are identified:

- Emissions from domestic/consumption of fuel (coal, diesel, etc)

Sulphur dioxide in atmosphere is significant because of its toxicity; Sulphur dioxide is capable of producing illness and lung injury. Further it can combine with water in the air to form toxic acid aerosols that can corrode metal surfaces, fabrics and the leaves of plants. Sulphur dioxide is an irritant to the eyes and respiratory system. Excessive exposure to Sulphur dioxide causes bronchial asthma and other breathing related diseases as it affects the lungs.

The minimum and maximum concentration of SO2 recorded within the study area was 5.0 to 8.9 µg/m^3 with the 98th percentile ranging between 5.4 µg/m^3 to 8.7 µg/m^3.

The 24 hourly average values of SO2 were compared with the National Ambient Air Quality Standards (NAAQS) and it was found that all sampling stations recorded values are below the applicable limits 80 µg/m^3 for Industrial, Residential, Rural and other areas.

d) Nitrogen Dioxide (NO2)

The important sources of oxides of Nitrogen are from utilities and auto exhaust due to vehicular movement in mine lease area. The following sources of oxides of nitrogen in the study area are identified.

- Emissions from field burning of coal.

- Emissions from vehicular movements in the study area.

Oxides of Nitrogen in the presence of sunlight will undergo reactions with a number of organic compounds to produce all the effects associated with photochemical smog. The minimum and maximum level of NO2 recorded within the study area was in the range of was 5.7 µg/m^3 to 16.6 µg/m^3 with the 98th percentile ranging between 13.2 µg/m^3 to 16.5 µg/m^3.

The 24 hourly average values of NO2 were compared with the National Ambient Air Quality Standards (NAAQS) and it was found that all sampling stations recorded values are below the applicable limits 80 µg/m^3 for Industrial, Residential, Rural and other areas.

3.6 NOISE ENVIRONMENT

Noise is one of the most undesirable and unwanted by-products of our modern life style. It may not seem as insidious or harmful as air and water pollutants but it affects human health and well-being and can contribute to deterioration of human well-being in general and can cause neurological disturbances and physiological damage to the hearing mechanism in particular. It is therefore, necessary to measure both the quality as well as the quantity of noise in and around the proposed site.

3.6.1 Source of Noise

The main sources of noise in the study area are domestic activities, industrial activities and vehicular traffic. The main occupation of the villagers in the study area is agriculture and business.

3.6.2 Noise Level in the Study Area

The baseline noise levels have been monitored at 5 locations, one in core zone and four within the study zone twice a week during pre monsoon period, using a sound level meter and noise level measurement locations were identified for assessment of existing noise level status, keeping in view the land use pattern, industrial area, Silence Zone, residential areas in villages etc., if available within 10 km radius of the study area. The day levels have been monitored during 6.00 AM to 10.00 PM and night noise levels, during 10.00 PM to 6.00 AM. The noise monitoring stations are shown in **Figure 3.4** and represented in **Table 3.4**. The results are presented in **Table 3.5 (a) Table 3.5**.

Table 3.4: Noise Level Monitoring Stations in the Study Area

S. No.	Location Name	Direction	Distance from the project site (in km)
NQ1	Khabdoli	West	8.1
NQ2	Project Site	NA	0
NQ3	Parol	East	7.02
NQ4	Harsila	NW	4.54
NQ5	Simkhet	South	4.66

Table 3.5: Leq Noise Level in the Study Area (during day and Night) (Dec 2020)

Location Code	Noise levels dB(A), Day (Leq)	Noise levels dB(A) Night, (Leq)	Noise Limits in dB(A), Leq Day Time	Noise Limits in dB(A), Leq Night Time	Area
NQ1	52.8	41.1	**75**	**70**	Residential
NQ2	70.5	65.2	**65**	**55**	Mine Site (Industrial)
NQ3	50.6	38.2	**55**	**45**	Residential
NQ4	48.7	39.4	**55**	**45**	Residential
NQ5	51.8	40.2	**50**	**40**	Residential

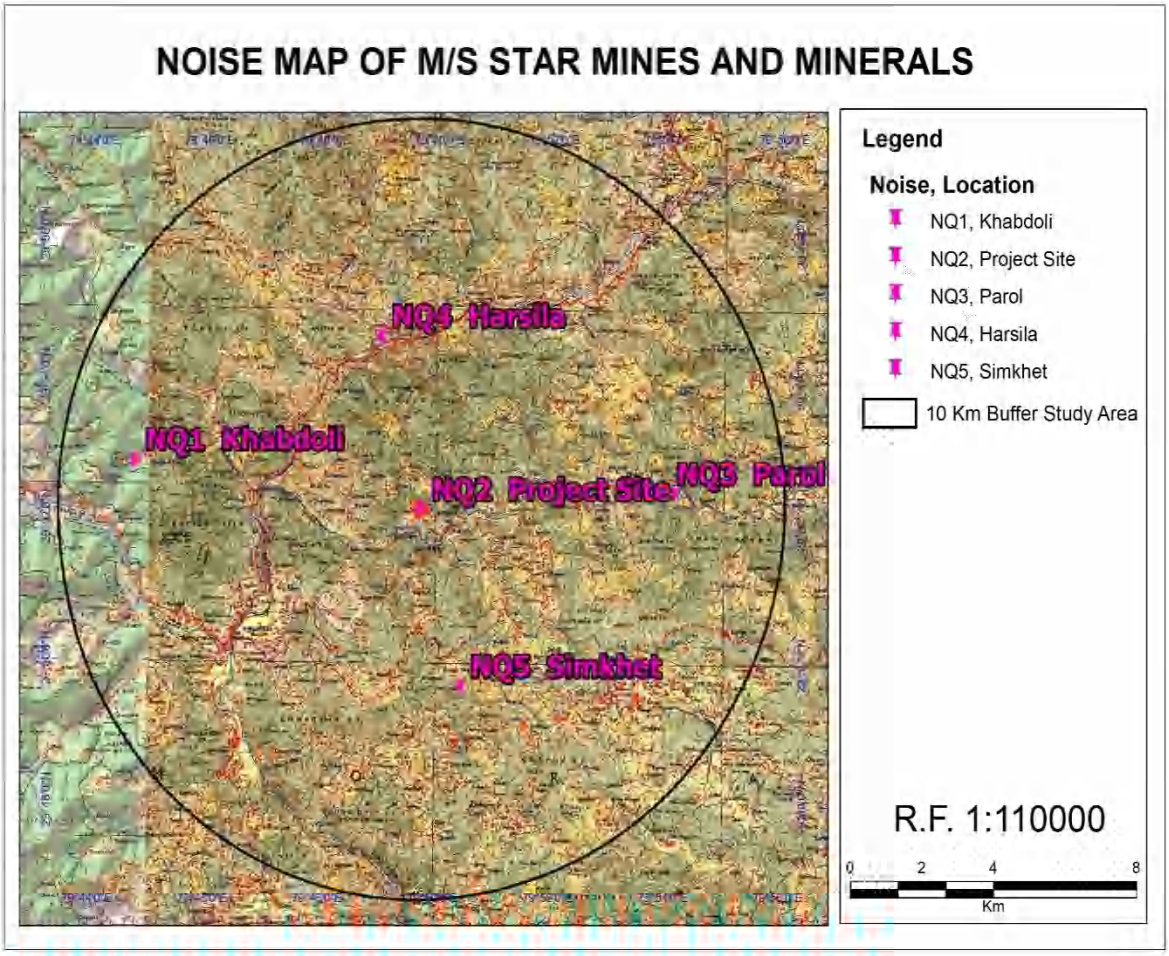


Figure 3.4: Ambient Noise Level Monitoring Locations

3.6.3 Ambient Noise Standards

Ministry of Environment, Forest and Climate Change (MoEF&CC) has notified the noise standards vide gazette notification dated February 14, 2000 for different zones under the Environment Protection Act (1986). These standards are given in **Table-3.6**

Table 3.6: Ambient Quality Standards in respect of Noise

Area Code	Category of Area	Noise dB (A) Leq	
		Daytime*	Night time*
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note:

1. Daytime is from 6.00am to 10.00 pm and Nighttime is from 10.00 pm to 6.00 am.
2. Silence zone is defined as area up to 100 meters around premises of hospitals, educational institutions and courts. Use of vehicle hours, loud speakers and bursting of crackers are banned in these zones

3.6.4 Baseline Scenario

The values of noise observed in some of the areas are primarily owing to vehicular traffic and other anthropogenic activities. Assessment of average logarithm night time Leq (Ln) varies from 38.2 to 65.2 db and the average logarithm daytime Leq (Ld) varies from 48.7 to 70.5 dB in the study area.

The status of noise quality within the 10 km zone of the study area is, therefore, within the MoEF&CC standards.

Some of the photographs of Noise Monitoring

Project Site

Khabdoli **Location**

3.7 WATER ENVIRONMENT

3.7.1 Water Quality

Water quality assessment is one of the essential components of EIA study. Such assessment helps in evaluating the existing health of water body and suggesting appropriate mitigation measures to minimize the potential impact from development projects. Water quality of ground water has been studied in order to assess proposed water-uses in dust suppression, drinking and green belt watering purpose.

The water quality within the study area was monitored during the study period. The water samples were collected once in month. The water sampling locations marked within the study are presented in **Table 3.7** and the result of the monitoring and analysis are presented in the **Table 3.8 and Figure 3.5A, 3.5B shows** the Water Quality Monitoring Locations marked within the Study Area.

Table 3.7: Location of Water Sampling Sites

S. No.	Location Name	Direction	Distance from the project site (in km)
GWQ1	Khabdoli	West	8.1
GWQ2	Project Site	NA	0
GWQ3	Parol	East	7.02
GWQ4	Harsila	NW	4.54
GWQ5	Simkhet	South	4.66
SWQ1	Upstream (Saryu River)	North	3.2
SWQ2	Downstream (Saryu River)	South	7.14

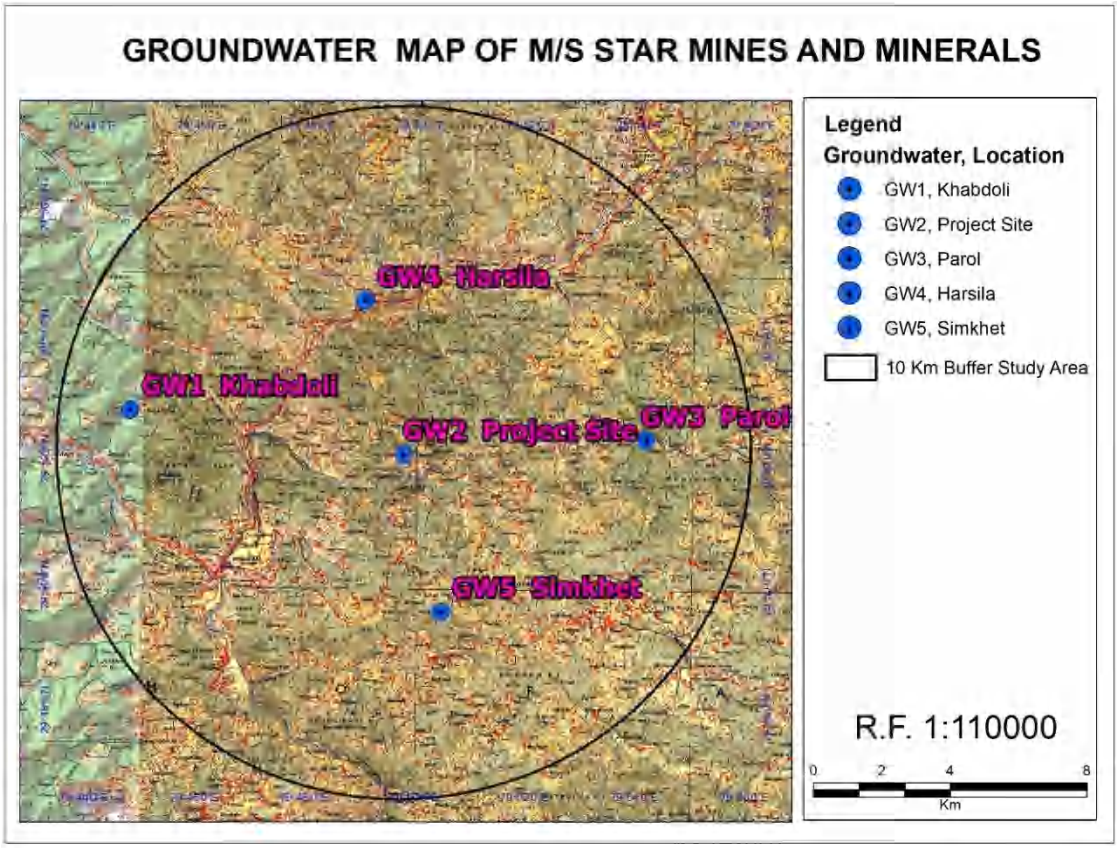


Figure 3.5 A: Location Map of Ground Water Sampling Sites

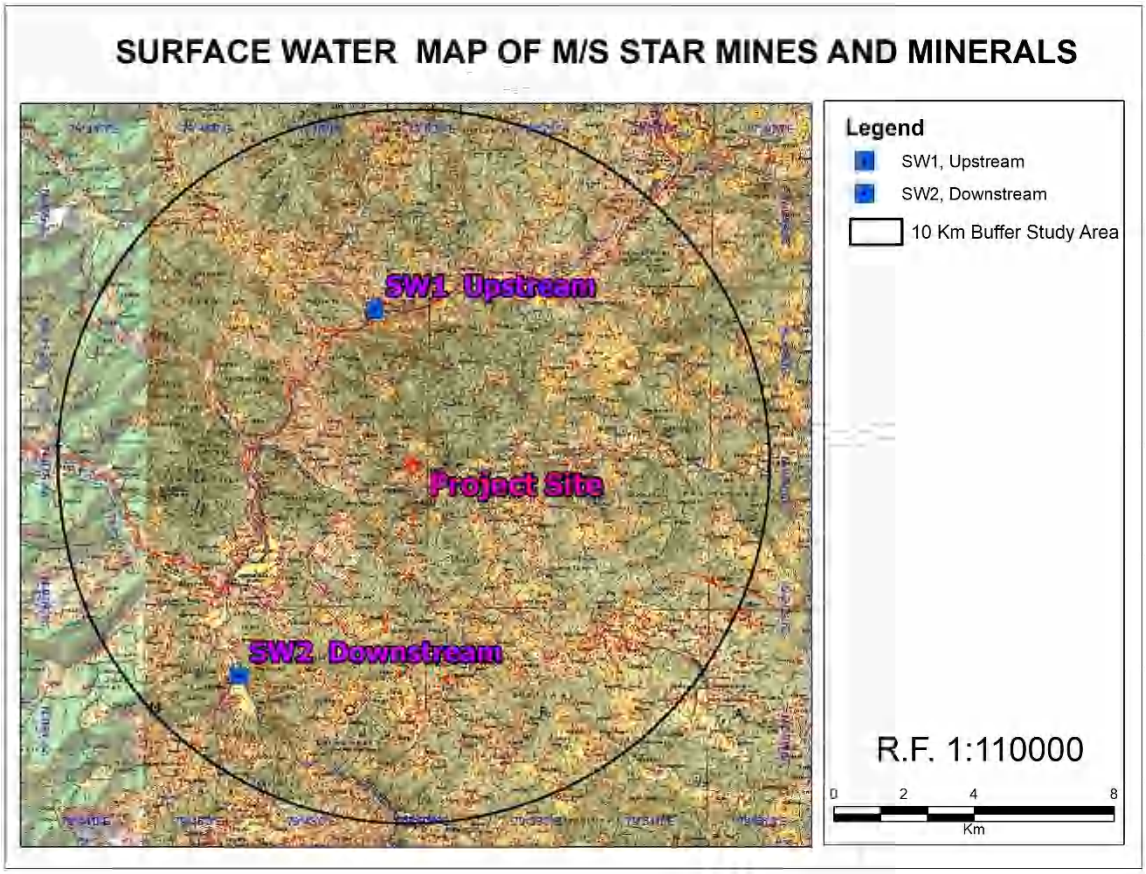


Figure 3.5 B: Location Map of Surface Water Sampling Sites

Table 3.8 : Water Quality during the month of Mar 2020

S. No	Parameter	Unit	Limit (IS-10500:2012)		GW1	GW2	SW3	GW4	GW5	SW1	SW2
			Desirable	Permissible	Khabdoli	Project Site	Parol	Harsila	Simkhet	U/S Saryu River	D/S Saryu River
1	Temperature (^{0}C)	(^{0}C)	-	-	15	9	8	7	9	10	9
2	pH	-	6.5-8.5	No Relaxation	7.86	7.66	7.36	7.44	7.32	7.26	7.42
3	Electrical Conductivity	Microm/hos/cm	-	-	755.16	762.26	412.36	425.22	395.85	366.48	337.11
4	TDS	mg/l	500	2000	413.34	395.24	205.16	210.22	198.6	186.98	175.36
5	TSS	Mg/l	-	-	BDL	BDL	0.41	BDL	BDL	BDL	BDL
6	Dissolved Oxygen	mg/l			4.8	3.8	5.6	4.2	3.9	3.6	3.8
7	Alkalinity as ($CaCO_3$)	mg/l	200	600	389.24	386.12	216.16	208.14	205.23	202.32	208.41
8	Total Hardness (as $CaCO_3$)	mg/l	200	600	288.2	245.56	182.44	205.32	195.25	185.18	188.11
9	BOD (at 27^{0}C 3-Days)	mg/l	-	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	COD	mg/l	-	-	BDL	BDL	5.5	BDL	BDL	BDL	BDL
11	Nitrate (as NO_3)	mg/l	45	No Relaxation	0.24	0.12	0.66	0.12	0.24	0.36	0.48
12	Chloride (as Cl)	mg/l	250	1000	28	48	12.6	20.5	18.4	16.3	17.2
13	Phosphates	mg/l	-	-	0.04	0.05	0.03	0.06	0.08	0.1	0.12
14	Sulphate (as SO_4)	mg/l	200	400	58.7	62.6	42.3	38.6	40.5	42.4	44.3
15	Sodium (as Na)	mg/l	-	-	42.7	62.5	42.5	40.2	38.6	37	39.4
16	Potassium (as K)	mg/l	-	-	2.5	3.8	2.7	3	2.6	2.2	2.8
17	Calcium (as $CaCO_3$)	mg/l	75	200	56.8	52.3	55.4	48.2	47.3	46.4	45.5

18	Magnesium (as $CaCO_3$)	mg/l	30	100	227	41.2	32.6	38.6	32.5	26.4	27.3
19	Silica	mg/l	-	-	33.2	28.6	32.5	30.5	37.5	44.5	51.5
20	Oil & Grease	mg/l	-	-	<1.0	<1.00	<1.00	<1.00	<1.01	<1.02	<1.03
21	Residual Sodium Carbonate	mg/l	-	-	116	86	72	78	65	52	54
22	Lead (as Pb)	mg/l	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	Arsenic (as As)	mg/l	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Mercu22ry (as Hg)	mg/l	0.001	No Relaxation	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
25	Cadmium (as Cd)	mg/l	0.003	No Relaxation	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
26	Chromium (as Cr6+)	mg/l	0.05	No Relaxation	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Total Chromium (as Cr6+)	mg/l	0.05	No Relaxation	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
28	Copper (as Cu)	mg/l	0.05	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
29	Zinc (as Zn)	mg/l	5	15	0.18	0.19	0.003	0.12	0.16	0.2	0.24
30	Iron (as Fe)	mg/l	0.3	1	0.86	0.78	0.03	0.78	0.76	0.74	0.72
Bacteriological Parameter											
1	Total Coliform	MPN/100ml	Absent	-	Absent	Absent	Absent	Absent	Absent	105	110
2	E.coli	E.coli /100ml	Absent	-	Absent	Absent	Absent	Absent	Absent	290	310

3.7.2 Sampling Frequency and Sampling Techniques

Parameters for analysis of water quality were selected based on the utility of the particular source of water as per MoEF&CC guidance. Hence quality of ground water was compared with IS: 10500: 2012 for drinking purposes. Surface water quality was monitored for parameters as per Methods of Monitoring & Analysis published by CPCB and it was rated according to the CPCB Water Quality Criteria against A, B, C, D & E class of water. Water samples were collected as Grab water sample from sampling location. The samples were analyzed as per standard procedure / method given in IS: 3025 (Revised Part) and standard method for examination of water and wastewater Ed.21st, published jointly APHA, AWWA and WPCF.
The surface water quality is compared with CPCB water quality criteria mentioned in **Table 3.9** below:

Table 3.9: Water Quality Criteria as per Central Pollution Control Board

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20°C 2mg/l or less
Outdoor bathing (Organized)	B	Total Coliforms Organism MPN/100ml shall be 500 or less; pH between 6.5 and 8.5; Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Drinking water source afterconventional treatment disinfection	C	Total Coliforms Organism MPN/100ml shall be 5000 or less; pH between 6 to 9; Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling, Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25°C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l
	Below-E	Not Meeting A, B, C, D & E Criteria

Water Sampling photograph

Village - Parol Location

3.7.3 Result & Conclusion:

- The pH limit fixed for drinking water samples as per IS-10500 Standards is 6.5 to 8.5 beyond this range the water will affect the mucus membrane or water supply system. During the study period, the pH was varying for ground water from 7.32 to 7.86 and the surface water are 7.26 to 7.42. The pH values for all the samples collected in the study area during study period were found to be within the limits.
- The desirable limit for total dissolved solids as per IS-10500 Standards is 500 mg/l whereas the permissible limits in absence of alternate source is 2000 mg/l, beyond this palatability decreases and may cause gastro intestinal irritation. In ground water samples collected from the study area, the total dissolved solids in ground water are varying from 198.6 mg/l to 413.34 mg/l whereas in surface water varying from 175.36 mg/l to 186.98 mg/l. The TDS of the samples were within the desirable limit but within the permissible limit of 2000 mg/l.
- The desirable limit for chlorides is 250 mg/l as per IS-10500 Standards whereas, permissible limit of the same is 1000 mg/l beyond this limit taste, corrosion and palatability are affected. The chloride level in the ground water samples collected in the study area were ranging from 12.6 mg/l to a maximum of 48 mg/l, in surface water samples 16.3 mg/l to 17.2 mg/l. The chloride samples are within the desirable limits.
- The desirable limit as per IS-10500 Standards for hardness is 200 mg/l whereas the permissible limit for the same is 600 mg/l beyond this limit encrustation in water supply structure and adverse effects on domestic use will be observed. In

the ground water samples collected from the study area, the hardness is varying from 182.44 mg/l to 288.2 mg/l, in surface water samples 185.18 mg/l to 188.11 mg/l.

Overall all the samples collected from the study area were found to be fit for consumption, Most of ground water samples are well within the permissible limits, as per IS-10500. Most of the heavy metals in all samples are below detectable limits.

Comparing the values of pH, DO, BOD and total coliforms with 'Use based classification of surface waters' published by Central Pollution Control Board; it can be seen that all the analyzed surface waters can be compared with class 'B' and can be used as Outdoor bathing (Organized).

3.8 SOIL CHARACTERISTICS

The composite soil samples were collected from site and the study area and were analyzed for characterization. The locations of the monitoring sites are depicted in **Figure 3.6** and given in **Table 3.10** Showing Soil Sample Collection Points marked within the Study Area.

3.8.1 Methodology

The soil samples were collected in the month of **May 2020.** Soil samples were collected from 8 locations. The samples were filled in polythene bags, labeled in the field with number and site name and sent to laboratory for analysis. The test results are given in **Table-3.11**.

Particulars	Details
Frequency	One grab sample from each station once during the Study Period
Methodology	Composite grab samples of the topsoil were collected from 3m depth, and mixed to provide a representative sample for analysis. They were stored in airtight Polythene Bags and analyzed at the laboratory

Table 3.10: Soil Sample Collection Points

S. No.	Location Name	Direction	Distance from the project site (in km)
SQ1	Khabdoli	West	8.1
SQ2	Project Site	NA	0
SQ3	Parol	East	7.02
SQ4	Harsila	NW	4.54
SQ5	Simkhet	South	4.66

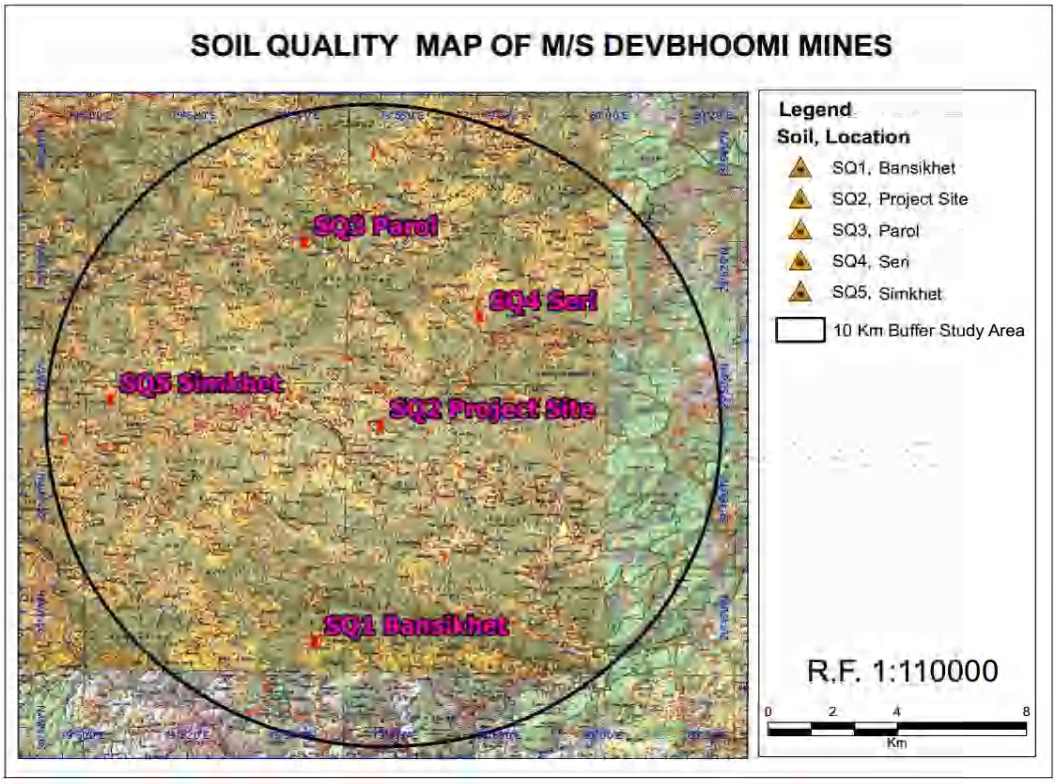
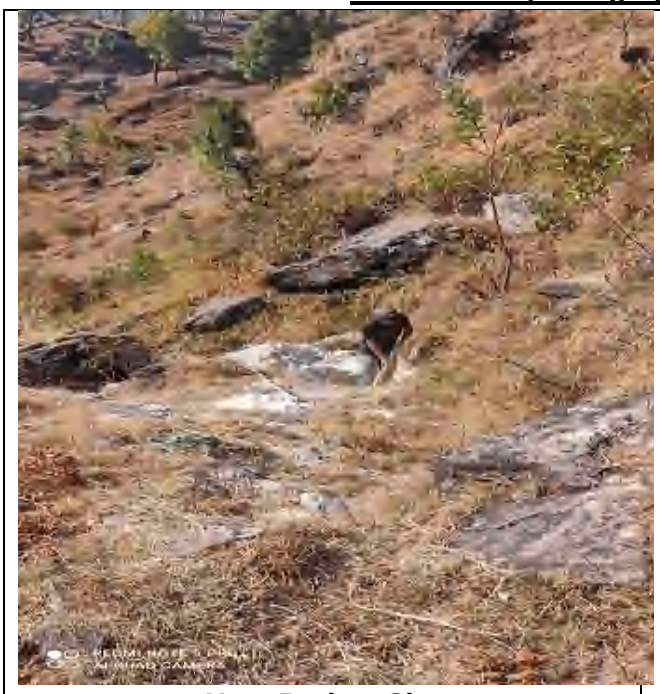


Figure 3.6: Location Map of Soil Sampling Sites

Some of the photographs of Soil Sampling



Near Project Site

Bansikhet Location

Table – 3.11: Physicochemical Properties of Soil (Jan 2021)

S.No	Parameter	Test Method	Unit	SQ-1	SQ-2	SQ-3	SQ-4	SQ-5
				Khabdoli	Project Site	Parol	Harsila	Simkhet
1	pH(1:2 suspension)	IS:2720 (Part-26)		7.82	7.54	7.7	7.88	7.88
2	Electrical Conductivity at 25^{O}C (1:2 suspension.)	IS:2720 (Part-21)	µmhos/cm	340.26	250.46	220.12	280.4	223.5
3	Calcium (as Ca)	STP/SOIL	mg/kg	480.1	410.6	400.3	390.8	390.8
4	Magnesium(as Mg)	STP/SOIL	mg/kg	28.2	32.4	35.42	38.1	38.1
5	Organic Matter	IS:2720 (Part-22)	% by mass	0.46	0.64	0.38	0.26	0.27
6	Potassium(as K)	STP/SOIL	mg/kg	90.2	88.82	94.62	83.1	90.4
7	Water holding Capacity	STP/SOIL	% by mass	26.5	19.5	28.7	25.6	24.6
8	Porosity	STP/SOIL	Mq/100/gm	40.24	37.82	37.6	34.5	34.5
9	Texture	STP/SOIL	-	Sandy loam	Sandy loam	Sandy loam	Sandy loam	Sandy loam
10	Sand	STP/SOIL	% by mass	57.6	55.4	60	65.6	60
11	Clay	STP/SOIL	% by mass	22.8	26.6	24.1	18	20
12	Silt	STP/SOIL	% by mass	19.6	18	15.9	16.4	20
13	Sodium	STP/SOIL	mg/100g	190.2	206.1	180.1	200.08	190.5
14	Sodium Absorption Ratio	STP/SOIL	%By mass	1.22	1.09	1.34	1.14	1.12
15	Nitrogen	STP/SOIL	mg/100g	0.05	0.03	0.08	0.09	0.09
16	Phosphorus	STP/SOIL	mg/kg	0.8	0.42	0.64	0.86	0.86
17	Bulk Density	STP/SOIL	grm/cc	1.3	1.44	1.58	1.2	1.2
18	Infiltration Rate	STP/SOIL	mm/hr	13	15	9	12	12
19	Moisture	STP/SOIL	%	15.3	18	22.4	17.1	17.1
20	Sulphates	STP/SOIL	mg/1000g	55.2	63.4	48.6	51.6	57.4

21	Available Sulphur(as S)	STP/SOIL	mg/kg	22.6	25.4	28.36	25.78	24.62
22	Available Manganese (as Mn)	STP/SOIL	mg/100g	2.14	1.86	1.74	1.06	2.56
23	Available Iron (as Fe)	STP/SOIL	mg/kg	46.4	38.26	36.28	41.26	40.8
24	Sodium as Na	STP/SOIL	mg/kg	55.68	62.5	71.22	80.3	66.8

3.8.2 Results of Analysis of the Soil

Physical characteristics of soil were characterized through specific parameters viz bulk density, porosity, water holding capacity, pH, electrical conductivity and texture. Soil pH plays an important role in the availability of nutrients. Soil microbial activity as well as solubility of metal ions is also dependent on pH. In the study area, variations in the pH of the soil were found to be slightly basic 7.54 to 7.88. Electrical conductivity (EC) is a measure of the soluble salts and ionic activity in the soil. In the collected soil samples the conductivity ranged from 220.12 – 340.26 µmhos/cm.

The soils with low bulk density have favorable physical condition where as those with high bulk density exhibit poor physical conditions for agriculture crops.

3.9 LAND USE/LAND COVER MAPPING

- **Coordinates of the mine lease area**

Map with all corner coordinates of the mine lease area are super imposed on toposheet is shown in **Figure-3.7**.

To assess the land use pattern surrounding the 10 km radius of the site, a detailed study was carried out. The land use pattern study reveals that the 10 km environs is predominantly forest and agriculture area. The land use details are given in **Table-3.12.**

Table 3.12: Land use of the study area

Sr. No.	Particulars	Percentage
1	Settlements	4.30
2	Water bodies	3.45
3	Barren land	3.89
4	Crop land	10.07
5	forest area	78.29
	Total	**100.00**

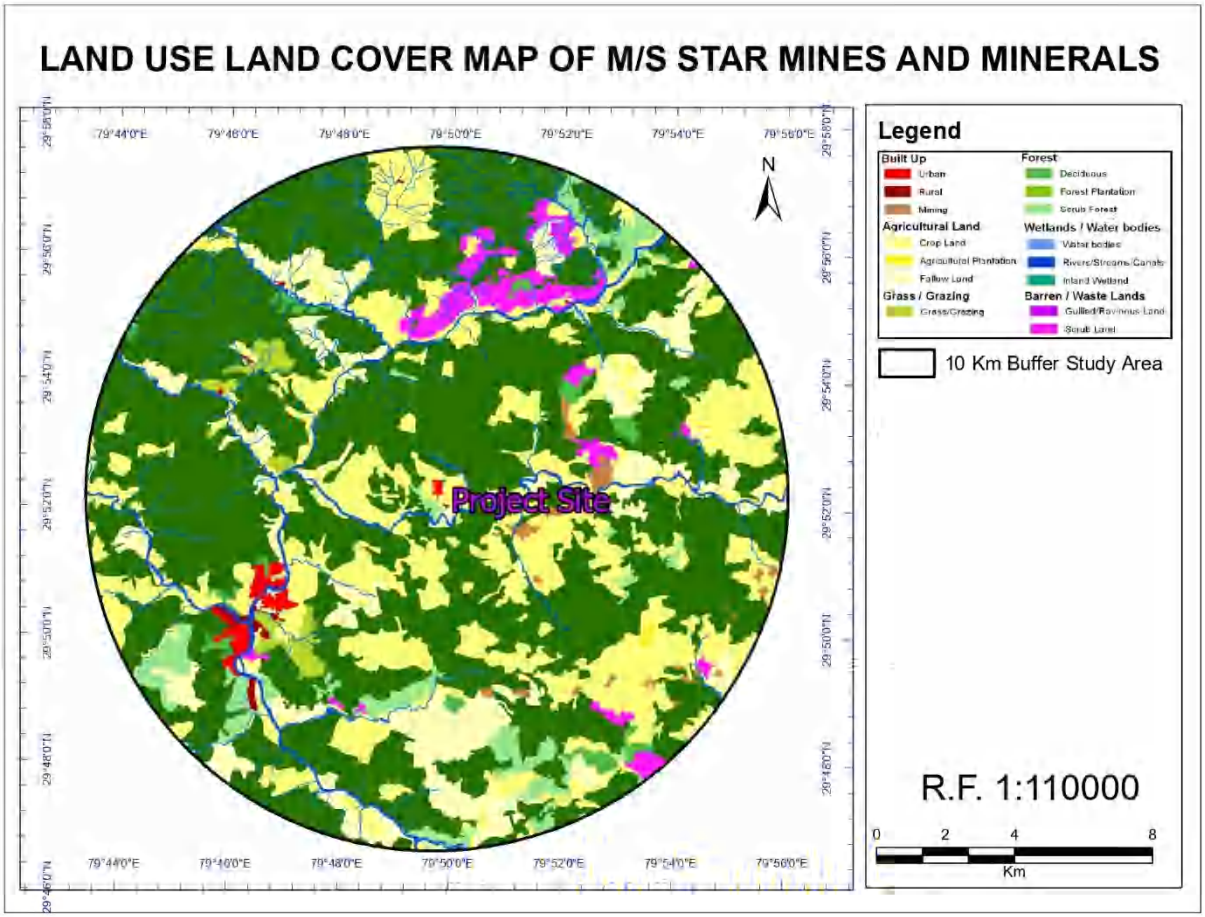


Figure 3.7 Land use delineation of 10 km radius area

3.10 TRAFFIC STUDY

Traffic study is carried out by understanding the existing carrying capacity of the road in the vicinity of site and flow towards State highway in the area. Then depending on the capacity of the mine, the number of trucks that will be added to the present scenario will be compared to the carrying capacity as recommended by Indian Road Congress (IRC). The existing volume of traffic and, the Level of Service are given in **Table-3.13 (i)** and shown in traffic density map as **Figure 3.8**.

Table 3.13 (i): Existing Traffic Scenario & LOS

Road	V (PCU/day)	C (PCU/day)	Existing V/C Ratio	LOS
Bageshwar – Dofar Dharamgarh Road	600	1100	0.54	B

V= Volume in PCU's/day & C= Capacity in PCU's/ day

During Mine operation

Total Capacity of mine : 24000 TPA

No. of working days : 240 days

Total Capacity of mine/day : 24000 /240 = 100 tonnes/day

Truck Capacity : 9 tonnes

No. of trucks deployed per day : 100/9 = 12 trucks per day

No. of trucks deployed/day to & fro : 12*2=24 trucks

Increase in PCU/day : 53

The addition to traffic by the proposed project during its operation is given table below**:**

Table 3.13 (ii): Additional Traffic Scenario & LOS due to proposed project

Road	V	C	Modified V/C Ratio	LOS
Bageshwar – Dofar Dharamgarh Road	653	1100	0.59	B

From the above analysis it can be seen that the V/C ratio is likely to be changed to 0.59 on Bageshwar – Dofar Dharamgarh Road with LOS remains “B” which is “Very Good” as per the classification. So the additional load on the carrying capacity of the concerned roads is not likely to have much significant adverse effect.

Figure 3.8: Transportation Route Map

3.11 BIOLOGICAL ENVIRONMENT

Biological diversity comprises the variability of species, genus and ecosystems and is very crucial for maintaining the basic processes on which the life depends. Broadly it can be divided in to two types i.e. the floral diversity and faunal diversity. Conservation of the biodiversity is essential for the sustainable development as it not only provides the food, fodder and medicine but also contribute in improvement of essential environmental attributes like air, water, soil, etc.

Before starting any Environmental Impact Assessment study, it is necessary to identify the baseline of relevant environmental parameters which are likely to be affected as a result of operation of the proposed project. A similar approach has been adopted for conducting the study on Biological Environment for this Project. Both terrestrial and aquatic ecosystems have been studied to understand the biological environment.

3.11.1 Methodology for the study

Detailed survey was conducted to evaluate floral and faunal composition of the study area. Primary data on floral and faunal composition was recorded during site visit and secondary data was collected from the Forest department and published relevant literature. Inventory of flora and fauna has been prepared on the basis of collected data.

Field study period: The ecological survey has been conducted for one season. All data were collected in pre monsoon season. The map showing the details of reserve forest within 10 km radius has been shown in **Figure 3.9.** The details are given as below:

Table 3.14: Mode of data collection & parameters considered during the survey

Aspect	Data	Mode of data collection	Parameters monitored
Terrestrial Ecology	Primary data collection	By conducting field survey	Floral and Faunal diversity
	Secondary data collection	From authentic sources like Range office and Forest Department of Uttarakhand and available	Floral and Faunal diversity and study of vegetation, forest type, importance etc.
Aquatic Ecology	Primary data collection	By conducting field survey	Floral and Faunal diversity
	Secondary data collection	From authentic sources like Range office and Forest Department of Uttarakhand and available	Floral and Faunal diversity and study of vegetation, forest type, importance etc.

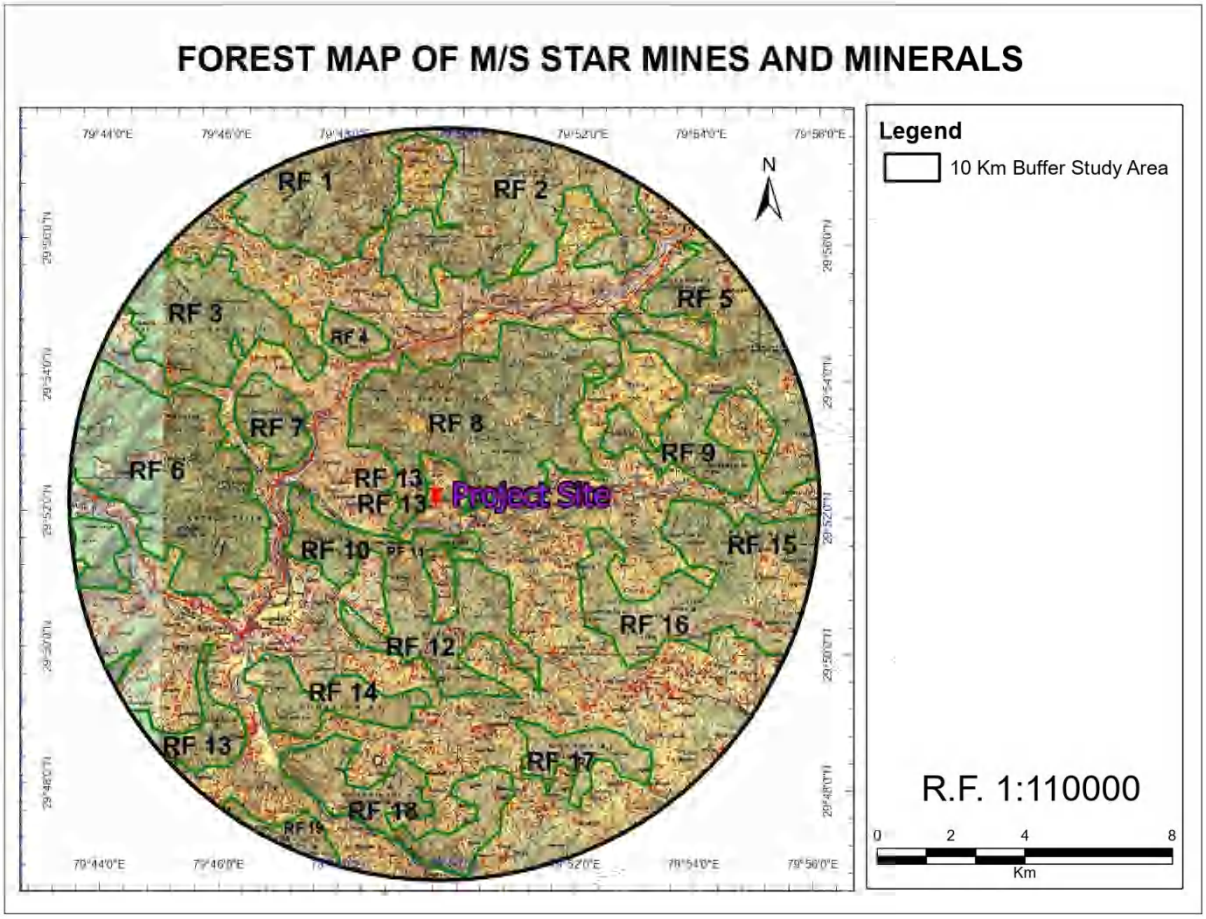


Figure 3.9: Details of reserve forest within 10 km radius

3.11.2 Physical Environment of the study area:

Bageshwar is one of the mountainous districts of Uttarakhand State. Prior to its formation as a separate district, Bageshwar constituted a part of Almora district. The district was included in Uttarakhand State after the state was carved out of Uttar Pradesh on 9th November 2000. The district lies between latitudes 29º40' and 30º20' N and longitudes 79º25' and 80º10' E (Survey of India Degree Sheet Nos. 53N and 53O). The district is bounded by Almora district in the south, Chamoli district in the north and northwest and Pithoragarh district in the east. The geographical area of the district is 1687.8 km^2 (Census, 2001).

3.11.2.1 Drainage:

Drainage of the area is mainly controlled by Saryu, Gomti and Pindar Rivers and their tributaries (locally called Nadi, Gad or Gadhera) *viz*. Pungar Nadi, Khir Ganga Nadi, Bhadrapati Nadi, Revti Ganga, Kanal Gad, Lahor Nadi, Jagtana Gad, Kulur Gad, Sukunda Gad etc. Sub-trellis, sub-rectangular and sub-dendritic are the most common drainage patterns in the area. The Central and North-Central parts of the district are drained by Saryu River. Gomti River drains the western and south eastern parts whereas Pindar River drains the northern part. These rivers are primarily fed by snowmelt with relatively smaller contribution from ground water. However, during the lean period, the rivers are fed by ground water occurring as base flow.

3.11.2.2 Climate:

January is the coldest month with mean maximum temperature of 10°C, the mean minimum temperature being about 2°C. Temperature drops down to – 6°C during January and February in the northern part of the district. June is the warmest month with the mean maximum and the mean minimum temperatures of 25°C and 15°C respectively. The Relative Humidity increases rapidly with the onset of monsoon and reaches at about 80% during July to September. The driest part of the year is the pre-monsoon period, when the humidity is as low as 30% in the afternoons. Skies are heavily clouded during the monsoon months and for short spells when the district is affected by Western Disturbances. Two broad wind patterns are observed in the district *viz.* north easterly to easterly (May to September) and south easterly to westerly (October to March).

3.11.2.3 Agriculture:

Agriculture is the main occupation of the people. However, intensive cultivation is not possible as major part of the district is mountainous. Agricultural activities are common on gentle hill slopes and in relatively plain, broad river valleys of Gomti and Saryu Rivers. Rice, wheat, mandua, barley, maize and sawan are the principal cops grown in the district. Garur valley has the maximum cultivated area. Due to high production of rice, the area is known as "Rice Bowl of Kumaun".

3.11.3 Forests cover and Forest Type:

The forest of the district includes the vast range found in the Himalayas, varying from the sub-tropical species which grow in the outer ranges of low hills to the rich Alpine vegetation in the north. Uttarakhand covers an area of 53, 483 sq km which is 1.63 % of the geographical area of the country as mentioned in the India State of Forest Report 2017 and 45.80% of the state's geographical area. In terms of forest canopy density classes, the state has 4762 km^2 area under very dense forest, 14167 km^2 area under moderately dense forest and 5567 km^2 area under open forest. Out of 2246 km^2 total area of Bageshwar district, 194 km^2 area is under very dense forest, 883 km^2 fall under moderately dense forest and 304 km^2 area is open forest (61.49% area of district encompasses forest cover).

As per Champion and Seth (1968), the project site included following types of forests.

- Very dense forest
- Moderate dense forest
- Open forest
- Scrub

Pre – Monsoon	:	March-May 2020
Survey sites	:	Around the project site in 10 km radius
Core zone	:	At the project site (100m)
Buffer zone	:	Around the project site in 10 km radius.

3.11.4 Taxonomic Diversity: Floristic of Terrestrial Ecosystem

The magnificent Himalaya is well recognized for its bio-physical diversity and socio-cultural Heritage, unique physical and ethnic diversity, traditional systems and an ample quantity of

Indigenous knowledge. It forms one of the Global Biodiversity Hotspots-the Himalayan Biodiversity Hotspot.

Table 3.15: Tree species recorded in the study area during winter season 2020-2021

S. No.	Botanical Name	Family	Local Name / English	Availability
1.	*Phoenix humlis*	Arecaceae	Khajoor	Occasional
2.	*Acacia catechu*	Mimosaceae	Khair	Occasional
3.	*Prunus armenica*	Rosaceae	Chulu	Common
4.	*Adina cordifolia*	Rubiaceae	Haldu	Common
5.	*Terminalia chebula*	Combretaceae	Harad	Common
6.	*Bombax ceiba*	Bombacaceae	Semal	Common
7.	*Ficus religiosa*	Moraceae	Pipal	Common
8.	*Syzygium cumuni*	Myrtaceae	Jamun	Common
9.	*Populus ciliata*	Salicaceae	Pahadi Pipal	Common
10.	*Pyrus pyr ifolia*	Rosaceae	Nashpati	Common
11.	*Erythrina suberosa*	Fabaceae	Dhak	Common
12.	*Cedrus deodara*	Pinaceae	Devdar	Common
13.	*Ficus nemoralis*	Moraceae	Dudhla	Common
14.	*Shorea robusta*	Dipterocarpaceae	Saal	Common
15.	*Dalbergia Sissoo*	Fabaceae	Shisham	Common
16.	*Litsea chinensis*	Lauraceae	Lauraceae	Common
17.	*Pyrus pashia*	Rosaceae	Mehal	Common
18.	*Ficus glomerata*	Moraceae	Gular	Common
19.	*Lagerstroemia indica*	Lythraceae	Gulbahar	Common
20.	*Quercus semecarpifolia*	Fabaceae	Khairu	Rare
21.	*Quercus leucotrichophora*	Fabaceae	Banj	Common
22.	*Sapindus mukurossi*	Sapinadaceae	Reetha	Common
23.	*Cassia fistula*	Caesalpiniaceae	Amaltash	Common
24.	*Mangifera indica*	Anarcardiaceae	Aam	Common
25.	*Emblica officinalis*	Euphorbiaceae	Amla	Common
26.	*Castanopsis tribuloides*	Fagaceae	Katauni	Common
27.	*Machilus duthiei*	Lauraceae	Kaula	Rare
28.	*Salix wallichiana*	Salicaceae	Bains	Occasional
29.	*Dendrocalamaus strictus*	Poaceae	Bans	Common
30.	*Aegle marmelos*	Rutaceae	Bel	Common
31.	*Betula* utilis	Betulaceae	Bhuj	Occasional
32.	*Grewia optiva*	Tiliaceae	Bhimal	Common
33.	*Salix babylonica*	Salicaceae	Salicaceae	Common

Source: Field survey & Bageshwar forest department.

Table 3.16: Tree, shrub & herb species recorded in the study area during winter season 2020-2021

S. No	Botanical Name	Family	Local Name / English	Local Availability
1.	*Lespedeza eriocarpa*	Fabaceae	Khunju	Common
2.	*Schefflera venulosa*	Araliaceae	Khadsemal	Common
3.	*Viburnum erubescens*	Caprifoliaceae	Gani	Common
4.	*Viburnum mullaha*	Caprifoliaceae	Ricchoi	Occasional
5.	*Viburnum nervosum*	Caprifoliaceae	Gadbiya	Occasional
6.	*Carissa opaca*	Apocynaceae	Karaunda	Occasional

7.	*Rubus niveus*	Rosaceae	Kala Hinsalu	Occasional
8.	*Dioscorea deltoidea*	Dioscoreaceae	Taroi	Occasional
9.	*Murraya exotica*	Rutaceae	Kamini	Common
10.	*Berberis asiatica*	Berberidaceae	Kilmoda	Common
11.	*Lantana camara*	Verbenaceae	Kuri	Common
12.	*Nyctanthes arbor-tristis*	Oleaceae	Harsingar	Common
13.	*Artemisia vulgaris*	Asteraceae	Kurinja	Common
14.	*Plectranthes rugosus*	Lamiaceae	Kurkha	Common
15.	*Smilex aspera*	Liliaceae	Kukurdada	Common
16.	*Skimmia anquetilia*	Rutaceae	Kedarpati	Occasional
17.	*Rubus biflorus*	Rosaceae	Achhai	Common
18.	*Asparagaus racemosus*	Liliaceae	Satavar	Common
19.	*Viburnum cotinifolium*	Caprifoliaceae	Ghinna	Common
20.	*Randia tetrasperma*	Rutaceae	Ghighari	Common
21.	*Rhus continus*	Anacardiaceae	Tung	Common
22.	*Cassia tora*	Caesalpiniaceae	Chakunda	Common
23.	*Pleurospermum densiflorum*	Apiaceae	Gugal	Rare
24.	*Mimosa pudica*	Mimosaceae	Chuimui	Common
25.	*Strobilanthes wallichii*	Acanthaceae	Jaanu	Common
26.	*Rubus duthieamus*	Rosaceae	Jogi	Common
27.	*Phoenix acaulis*	Arecaceae	Thakal	Rare
28.	*Taraxacum officinale*	Asteraceae	Dudhiya	Common
29.	*Datura stramonium*	Solanaceae	Dhatura	Common
30.	*Mentha sylvestris*	Lamiaceae	Pudina	Common
31.	*Adhatoda vasica*	Acanthaceae	Basinga	Common
32.	*Centella asiatica*	Apiaceae	Brahmi	Common
33.	*Salix elegans*	Salicaceae	Kadvi	Common
34.	*Zizyphus mauritiana*	Rhamnaceae	Ber	Common
35.	*Cannabis sativa*	Cannabinaceae	Bhang	Common
36.	*Ficus scandes*	Moraceae	Chachri	Common
37.	*Lawsonia inermis*	Lythraceae	Mehndi	Common
38.	*Euphorbia royleana*	Euphorbiaceae	Suru	Common
39.	*Terminalia chebula Retz.*	Combretace	Harad	Rare

Source: Field survey & Bageshwar forest department.

Table 3.17: Climber species recorded in the study area during winter season 2020-2021

S. No	Botanical Name	Family	Local Name / English	Local Availability
1.	*Rubus paniculatus*	Rosaceae	Kathula	Common
2.	*Milletia auriculata*	Fabaceae	Gauj	Occasional
3.	*Clematis montana*	Ranunculaceae	Kenia	Common
4.	*Tinospora cordifolia*	Menispermaceae	Giloy	Rare
5.	*Cryptolepis buchanani*	Asclepiadaceae	Dudhibel	Common
6.	*Holboellia angustifolia*	Berberidaceae	Jangali sharifa	Occasional

Source: Field survey & Bageshwar forest department

Table 3.18: Parasite species (angiosperm) recorded in the study area during winter season 2020-2021

S. No.	Botanical Name	Family	Local / English Name	Local Availability
1.	*Cuscuta reflexa*	Cuscutaceae	Amarbel	Common
2.	*Taxillus vestitus*	Loranthaceae	Pand	Common
3.	*Viscum nepalense*	Loranthaceae	Budu	Common
4.	*Dendrophthoe falcata*	Loranthaceae	Banda	Common

Source: Field survey & Bageshwar forest department.

Table 3.19: Bamboo species recorded in the study area during winter season 2020-2021

S. No.	Botanical Name	Family	Local / English Name	Local availability
1.	*Arundinaria alcate*	Poaceae	Gol Ringal	Common
2.	*Dendrocalamus hamiltonii*	Poaceae	Kako Bans	Common
3.	*Dendrocalamus somdevii*	Poaceae	Bans	Common
4.	*Dendrocalamus strictus*	Poaceae	Bans	Common

Source: Field survey & Bageshwar forest department.

Table 3.20: Grass species recorded in the study area during winter season 2020-2021

S. No.	Botanical Name	Family	Local/ English Name	Local availability
1.	*Saccharum munja*	Poaceae	Munj	Common
2.	*Eragrostis curvula*	Poaceae	Love grass	Common
3.	*Seatria sphacelata*	Poaceae	Setaria grass	Common
4.	*Dactylis glomerata*	Poaceae	Auchard grass	Common
5.	*Saccharum spontaneum*	Poaceae	Kans	Common
6.	*Crysopogon gryllus*	Poaceae	Kush	Common
7.	*Cynodon dactylon*	Poaceae	Dub	Common
8.	*Sorghum halepense*	Poaceae	Bajra	Common
9.	*Cymbopogon maritinii*	Poaceae	Babla	Common
10.	*Themeda anathera*	Poaceae	Piriya	Common

Source: Field survey & Bageshwar forest department.

Table 3.21: Non- flowering plant species in the study area during winter season 2020-2021

S. No.	Botanical Name	Family	Local / English name	Local availability
Fern				
1.	*Angiopteris evecta*	Angiopteridaceae		Common
2.	*Osmunda hilsenbergii*	Osmundaceae		Rare
3.	*Drynaria propinqua*	Polypodiaceae		Common
4.	*Microsorum membranaceum*	Polypodiaceae		Common
5.	*Phymatopteris oxyloba*	Polypodiaceae		Common
6.	*Lygodium japonicum*	Lygodiaceae		Common
7.	*Pteris biaurita*	Pteridaceae		Common
8.	*Pteris vittata*	Pteridaceae		Common
9.	*Adiantum philippenese*	Adiantaceae		Common
10.	*Vittaria flexuosa*	Pteridaceae		Common
11.	*Sphenomeris chinesis*	Lindsaceae		Common

12.	*Christella parasitica*	Thelypteridaceae		Common
13.	*Tectaria coadunata*	Tectariaceae		Common
Bryophyte				
14.	*Anthoceros sp.*	Anthoceroceae		Common
15.	*Funaria hygrometrica*	Funariaceae		Occasional
16.	*Riccia sp.*	Ricciaceae		Common
Algae				
17.	*Spirogyra sp.*	Zygnemataceae		Occasional
18.	*Chara sp.*	Characeae		Occasional
19.	*Nostoc sp.*	Nostocaceae		Common

Source: Field survey & Bageshwar forest department.

During Pre monsoon season, a total of 113 species were recorded inhabiting land. The floral angiosperm diversity (94 species) was dominated by tree species (32); the other species recorded are shrub, herb (42), climber (06), parasitic angiosperm (04) and grass (10) species. The graph showing the Taxonomic diversity of terrestrial flora in the project area during winter season 2020-2021 has been shown in **Figure 3.10**.

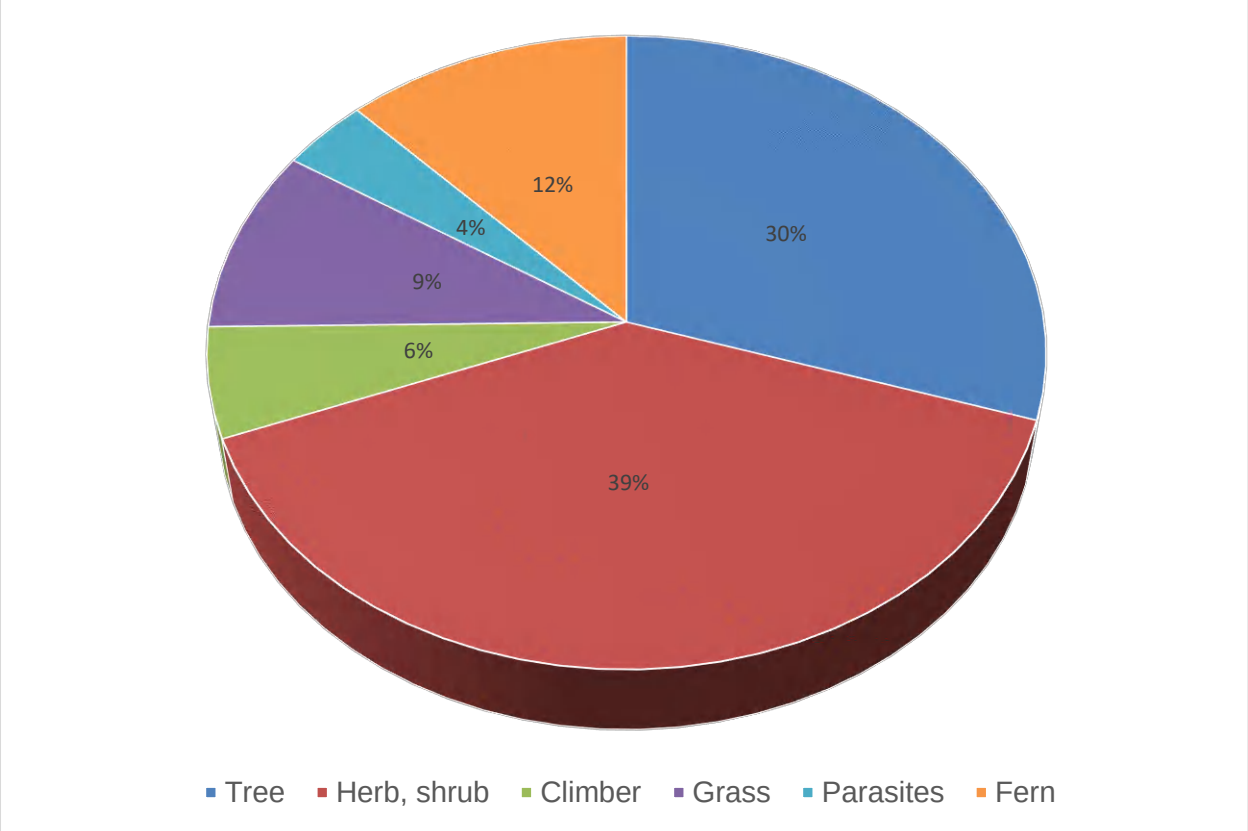


Figure 3.10: Taxonomic diversity of terrestrial flora in the project area during winter season 2020-2021

3.11.5 Economically Important Species

The terrestrial peculiarities make the Himalayan region a very diverse system subtending a wide range of flora types. The biodiversity of this region is severely vulnerable by natural and anthropogenic disturbances. During the field survey, numbers of plant species which are

medicinally and economically importance in the area were recorded. These plants are used by local people for various purpose and also used as food and other devotions. A total of 19 Species of sparingly significant plants were recorded in the project area.

Table 3.22: Economically & medicinally important plant species recorded in the project area

S. No.	Botanical Name	Family	Local / English Name	Life form
1.	*Asparagus adscendens*	Liliaceae	Shatavar	Herb
2.	*Quercus leucotrichophora*	Fagaceae	Banj	Tree
3.	*Juglans regia*	Juglandaceae	Akhrot	Tree
4.	*Ficus religiosa*	Moraceae	Pipal	Tree
5.	*Ficus palmata*	Moraceae	Bedu	Tree
6.	*Ricinus communis*	Euphorbiaceae	Arandi	Shrub
7.	*Jatropha curcas*	Euphorbiaceae	Safed Arand	Shrub
8.	*Litsea umbrosa*	Lauraceae	Chirar	Tree
9.	*Symplocos crataegoides*	Symplocaceae	Lodh	Tree
10.	*Rhododendron arboreum*	Ericaceae	Burans	Tree
11.	*Prunus cerasoides*	Rosaceae	Padam	Tree
12.	*Bauhinia variegata*	Caesalpinaceae	Kanchnar	Tree
13.	*Bombax ceiba*	Bombacaceae	Semal	Tree
14.	*Cedrus deodara*	Pinaceae	Deodar	Tree
15.	*Hedychium spicatum*	Zingiberaceae	Haldi	Herb
16.	*Malaxis acuminata*	Orchidaceae	Jivak	Herb
17.	*Myrica esculenta*	Myricaceae	Kaphal	Tree

Source: Field survey & Bageshwar forest department.

3.11.6 Fauna Diversity: Terrestrial Ecosystem

The list of fauna according are based on primary survey and multiples sources of data together with the operating plans of Bageshwar forest divisions, printed articles in scientific journals, publications of multiple sources of data like the Zoological Survey of India. During field surveys resulted in to updated information of the 48 species belonging to both vertebrate as well as invertebrate animal diversity. The faunal species recorded in the project area include; butterfly 06 species, avifauna 24 species and vertebrates 18 species. The percentage contribution of different species is dominated by birds and mammal. Two Schedule – 1 species have also been recorded in the study area and their conservation plan has been attached as **Annexure V.**

The graph showing the Taxonomic diversity of terrestrial fauna in the project area during winter season 2020-2021 has been shown in **Figure 3.11.**

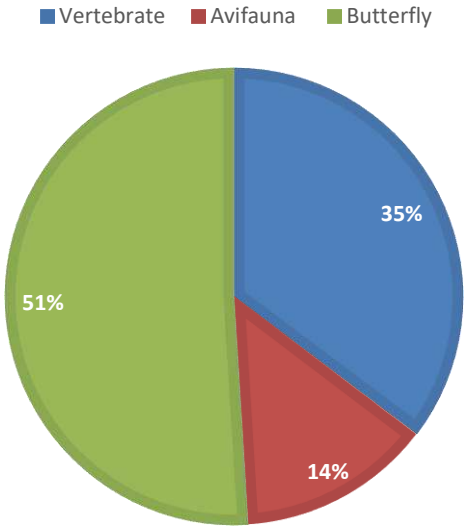


Figure 3.11. Taxonomic diversity of terrestrial fauna in the project area during winter season 2020-2021

Table 3.23: Vertebrate's species recorded in the study area during winter season 2020-2021

S. No.	Scientific Name	Common Name	Local Availability	WPA, 1972	IUCN category
1.	*Presbytis entellus*	Common Langur	Common	II	NA
2	*Macaca mulata*	Rhesus Macaque	Common	II	NA
3.	*Susscrofa cristatus*	Indian wild Boar	Frequently	III	NA
4.	*Felis chaus*	Jungle cat	Frequently	II	LC
5.	*Herpestes edwardsi*	Common mongoose	Common	II	LC
6.	*Vulpes bengalensis*	Indian fox	Common	II	LC
7.	*Vulpes vulpes*	Red fox	Common	II	NA
8.	*Hyaena hyaena*	Strited hayena	Occasional	III	NT
9.	*Lutra lutra*	Common otter	Rare	II	NT
10.	*Rousettus leschenaultia*	Fulvous fruit bat	Common	-	NA
11.	*Petaurista petaurista*	Red flying squirrel	Common	II	LC
12.	*Lepus nigricollis nigricollis*	Indian hare	Common	IV	NA
13.	*Axis exis*	Spotted dear	Frequently	III	NA
14.	*Cervus unicolor*	Sambhar	Common	III	VU
15.	*Muntinacus muntjak*	Barking deer	Common	III	NA
16.	*Panthera pardus*	Leopard	Rare	I	NT
17.	*Ursus thibetanus*	Asiatic Black Bear	Rare	I	VU
18.	*Canis aureus*	Jackal	Common	II	LC

Source: Field survey & Bageshwar forest department.

Note: NA- Not assessed yet for IUCN category, LC- Least Concern, NT- Near threatened, VU- Vulnerable.

Table: 3.24: Avifauna (Bird) species recorded in the project area during winter season 2020-2021

S. No.	Scientific Name	Common name	Local availability
1.	*Motacilla alba*	White wagtail	Frequent
2.	*Certhia himalayana*	Bar-tailed creeper	Common
3.	*Garrulax albogularis*	White throated laghing trush	Common
4.	*Neophron percnopterus*	Egyptian vulture	Common
5.	*Gyps himalayensis*	Himalayan griffon	Frequently
6.	*Falco tinnunculus*	Common kestrel	Common
7.	*Francolinus francolinus*	Black francolinus	Common
8.	*Gallus gallus*	Red jungle fowl	Frequently
9.	*Vanellus indicus*	Red wattled lapwing	Rare
10.	*Columbia livia*	Rock pigeon	Frequently
11.	*Psittacula cyanocephala*	Plum headed parakeet	Common
12.	*Psittacula himalayana*	Stay- headed parakeet	Frequently
13.	*Eudynamys scolopacea*	Asian Koel	Common
14.	*Heirococyx sparverioides*	Large Hawk Cuckoo	Common
15.	*Heirococcyx varius*	Common Hawk Cuck	Common
16.	*Glaucidium radiatum*	Jungle Owlet	Common
17.	*Glaucidium brodiei*	Collared Owlet	Common
18.	*Coracias benghalensis*	Indian roller	Common
19.	*Dendrocopos auriceps*	Brown-fronted woodpecker	Common
20.	*Acridotheres fuscus*	Jungle myna	Common
21.	*Acridothes tristis*	Common myna	Common
22.	*Corvus splendens*	House crow	Common
23.	*Corvus macrocrhynchos*	Large-billed crow	Common
24.	*Sitta castanea*	Chestnut-bellied Nut hatch	Common
25.	*Pycnonotus cafer*	Red vented bulbul	Common
26.	*Dinopium benghalense*	Black rumped flameback	Frequently

Sources: Field survey & Bageshwar forest department.

Table 3.25: Butterfly species recorded in the project area during winter season 2020-2021

S. No.	Scientific Name	Local availability	IUCN Status
1.	*Pieris brassicae*	Common	NA
2.	*Pieris caniaidia*	Frequently	NA
3.	*Gonepteryx rhamni*	Common	NA
4.	*Colias fieldi*	Common	NA
5.	*Colias erate*	Common	NA
6.	*Lampides* sp.	Common	NA
7.	*Dilipa morgiana*	Frequently	NA

Source: Field survey & Bageshwar forest department.

3.12 SOCIO-ECONOMIC ENVIRONMENT

Socio-Economic status of the population is an indicator for the development of the region. Any development project of any magnitude will have a bearing on the living conditions and on the

economic base of population in particular and the region as a whole. Similarly, the proposed activities will have its share of socio-economic influence in the study area. The section delineates the overall appraisal of society relevant attributes. The baseline data collection of project on socioeconomic aspects in the study area has been done through the analysis of secondary data (Census 2011) available for the study area of 10 km radius around the project site. The information in the context was gathered on the following socio-economic parameters viz.

- Demographic profile
- Education levels
- Occupational Profile
- Cropping Pattern
- Other Socio-Economic Parameters.

3.12.1 Socio-Economic Impact Assessment

Socio-Economic Impact Assessment (SEIA) refers to the systematic analysis of various social and economic characteristics of the human beings living in the geographical / study area around the proposed project location. SEIA is carried out separately but concurrently with Environment Impact Assessment (EIA) study. The SEIA focuses on the likely effects of the project on social and economic well-being of the community. The impact(s) may be direct or indirect, positive or negative. In this Chapter of the EIA Report an attempt has been made to assess the composite Socio-Economic Impact of the project.

3.12.1.1 Steps taken to prepare the SEIA Report

Various steps taken to prepare the SEIA report were as follows

- Literature review
- Identification of habitations in the study area with the help of google earth and topo sheet
- Visit to project site
- Collection of secondary data
- Planning and designing of the field survey for collection of primary data
- Formulation of Data collection tools (Schedule/Questionnaire)
- Field testing of Schedule/Questionnaire through a pilot survey
- Briefing of field staff
- Scrutiny of filled-in-schedules
- Data processing and tabulation
- Data analysis and preparation of report.

3.12.1.2 Approach

Research approach plays an important role to decide suitable methodology. It helps to develop research design and increase the effectiveness of research study. In the present study

inductive approach has been adopted, which is a bottom top approach. Under this approach first data is collected both from primary and secondary sources. After scrutiny, tables are generated in pre-designed formats. Subsequently, draft report is prepared after detail analysis of data. The final report is prepared after incorporating the comments and suggestions of the client.

3.12.1.3 Objectives of SEIA

The prime objective of the current study is to assess the likely impact of the project on socio-economic characteristics of people living in the study area. Further, it is to be gauged whether the impact would be direct or indirect and whether the said impact would be positive or negative. Lastly, it is to be comprehended if the impact is negative and how the same could be mitigated.

3.12.1.4 Scope

The Scope of the study is as follows:

a) Collection of baseline data of the study area.

b) Collation of data, analyses and generation of tables.

c) Comprehension of socio-economic status of the people living in the study area.

d) Identification and inventory of probable impacts of the project on social and economic aspects in the study area.

e) Assessment of the probable impacts of the project on the people living in the study area.

f) Facilitation of sustainability of positive impact by recommending community development initiatives in the study area.

g) Suggestion of mitigation measures in case of adverse impact.

3.12.2 Methodology

For composite Socio-Economic Impact Assessment of projects, the consultant carries out systematic analysis of the various socio-economic characteristics, both in terms of quality and quantity. Accordingly, both qualitative and quantitative data was collected from secondary sources. The secondary data was collected from the published data / information of the Census Authority. Records of the state and district administration were also referred. For collection of primary data, a sample survey was conducted in the study area which spans a radius of 10 km from the periphery of the boundary of the project site. In each selected habitation, a specified number of representative households were selected for collection of information through face to face interviews with head of the household or any responsible member of the family.

3.12.2.1 Census Survey

To assess the likely impacts of the project, Census data (viz. Population Census Abstract and Amenities- 2011) of all the habitations identified were taken into consideration to prepare the data base. It is treated as a census survey because all habitations located in the area were considered for the collection of information. Sample Survey was conducted for substantiating of socio-economic data got through the Census. Further, in selected habitation a household survey was

conducted by drawing representative sample of households. Since, collection of information from all the households in a habitation is time consuming and expensive, the sample survey approach was adopted for collection of information from the selection of villages and households in the village(s) / town(s).

3.12.3 Bageshwar District (Project District)

Bageshwar is a town and a municipal board in Bageshwar district in the state of Uttarakhand, India. It is located at a distance of 470 km from the National Capital New Delhi and 332 km from the State Capital Dehradun. Bageshwar is known for its scenic beauty, Glaciers, Rivers and Temples. It is also the administrative headquarters of Bageshwar district. Situated on the confluence of Sarju and Gomati rivers, Bageshwar is surrounded by the mountains of Bhileshwar and Nileshwar to its east and west and by the Suraj Kund in the north and Agni Kund in the south. Bageshwar was a major trade mart between Tibet and Kumaun, and was frequented by the Bhotia traders, who bartered Tibetan wares, wool, salt and Borax in exchange for Carpets and other local produces in Bageshwar.

3.12.4 Population Profile

The description of the project district is presented in **Table 3.26**. According to the 2011 census of India, Bageshwar has a population of 2, 59,898.

Table 3.26: Demographic details of Project District and Tehsil

S.No.	District/Tehsil	Households	Population					
			Total	Male	%	Female	%	Sex ratio
1.	Bageshwar	57,941	2,59,898	1,24,326	47.84	1,35,572	52.16	1090

Source: Census of India, 2011

3.12.5 Caste Wise Distribution of Population

Table 3.27 provides detailed information about the SC, ST population in Bageshwar district as well as on the Project area. The total SC population in Bageshwar district is 72,061 which is 27.72% of the total population, while ST population is 1982, which is 0.76% of the total population.

Table 3.27: Caste wise distribution of population

Sl. No.	District/Project Area	Schedule Caste (SC)		Schedule Tribes (ST)	
		Total	% of SC	Total	% of ST
1	Bageshwar	72,061	27.72	1,982	0.76

Source: Census of India, 2011

3.12.6 Literacy Rate

District Bageshwar: The literate population in Bageshwar district is 1,79,483, out of which male & female are 97,546 and 81,937 respectively. The male literates represent 54.35% while female represent 45.65% of the total population.

The details of literacy rate and literate people in Bageshwar tehsil and district are provided in **Table 3.28.**

Table 3.28: Literacy Rate of Project District and Project Area

S. No	District/Project Area	Number of Literate			Literacy Rate %	
		Total	Male	Female	Male	Female
1	Bageshwar	1,79,483	97,546	81,937	54.35	45.65

Source: Census of India, 2011

3.12.7 Ethnographic Profile of Project State and Project District

The various Scheduled Castes and the Scheduled Tribes in Project district area are Agariya, Dom, Dhobi, Dhangar and Bhotiya, Jaunsari, Tharu etc.

The list containing the names of the Scheduled Castes and the Scheduled Tribes applicable for the Census of India 2011 in the Project State are given below **Table 3.29 (a & b):**

Table 3.29 (a): List of Schedule Caste in the Project District

S.NO	Name of SC	S.NO	Name of SC
1.	Agariya	34.	Patari
2.	Badhik	35.	Saharya
3.	Badi	36.	Dhangar
4.	Baheliya	37.	Dhanuk
5.	Baiga	38.	Dharkar
6.	Baiswar	39.	Dhobi
7.	Bajaniya	40.	Dom
8.	Bajgi	41.	Domar
9.	Balahar	42.	Dusadh
10.	Balai	43.	Gharami
11.	Balmiki	44.	Ghasiya
12.	Bangali	45.	Gond
13.	Banmanus	46.	Gual
14.	Bansphor	47.	Habura
15.	Barwar	48.	Hari
16.	Basor	49.	Hela
17.	Bawariya	50.	Kalabaz
18.	Beldar	51.	Kanjar
19.	Beriya	52.	Kapariya
20.	Bhantu	53.	Karwal
21.	Bhuiya	54.	Khairaha
22.	Bhuyiar	55.	Kharwar (excluding banbasi)
23.	Boria	56.	Khatik
24.	Chamar, Dhusia, Jhusia, Jatawa	57.	Khorot
25.	Chero	58.	Kol
26.	Dabgar	59.	Kori
27.	Majhwar	60.	Korwa
28.	Mazhabi	61.	Lalbegi
29.	Musahar	62.	Sanaurhiya
30.	Nat	63.	Sansiya
31.	Pankha	64.	Shilpkar
32.	Parahiya	65.	Turaiha
33.	Pasi, Tarmali		

Source: Census of India, 2011

Table 3.29 (b): List of Schedule Tribe in the Project District

S.NO	Name of ST
1.	Bhotia
2.	Buksa
3.	Jaunsari
4.	Raji
5.	Tharu

Source: Census of India, 2011

3.12.8 Religion and Culture

Bageshwar is Hindu majority city with approximately 99.1% of district population following Hinduism as their religion. Muslim is second most popular religion in district with approximately 0.6 % following it. In Bageshwar district, Christianity is followed by 0.2 %. **Table 3.30** shows the Religious wise distribution of Population of Bageshwar District.

Table 3.30: Religion wise distribution of Population of Bageshwar District

Description	Total	Percentage
Hindu	257509	99.1
Muslims	1440	0.6
Christian	397	0.2
Sikh	46	0.0
Buddhist	102	0.0
Jain	7	0.0
Others	16	0.0
Not Stated	381	0.2

Source: Census of India, 2011

3.12.9 Economic Structure

The economy of the district is predominantly based on agriculture, as maximum per cent of the population resides in rural areas and their main occupation is agriculture. Kharif and Rabi are the two principal harvests grown in the district.

The **Table 3.31** given below describes two sections of workers main and marginal with a third category which is non-worker; the total number of workers at district level is 1,23,638 which is 47.57 percent of total population out of which main workers are 63.16 percent and marginal workers have a share of 36.84 percent while rest nearly 52.43 percent workers are non-workers.

Table 3.31: Main Workers, Marginal Workers and Non-workers of Project District and Project Area

Sl. No.	District/ Project Area	Total workers	Total worker %	Main workers	Main workers %	Marginal workers	Marginal workers %	Non-workers	Non-workers %
1.	Bageshwar	1,23,638	47.57	78,085	63.16	45,553	36.84	1,36,260	52.43

Source: Census of India, 2011

3.12.10 List of Villages falling in the study area

The list of villages falling in the study area has been shown in **Table 3.32**.

Table 3.32: List of villages falling in the study Area

S. No.	Villages	Direction	Aerial Distance from the proposed mine site
1)	Bhatni Kot	W	0.58
2)	Bang Dungariya	SW	0.88
3)	*Sukyari*	S	1.44
4)	Bilkhet	S	1.80
5)	Kwairali	SW	2.26
6)	Burghuna	S	2.82
7)	Mankot	S	3.74
8)	Gargaon	SW	3.10
9)	Kunara	SW	4.29
10)	Basai	S	5.14
11)	Baset	SE	4.94
12)	Suneri	SE	4.95
13)	Bantoli	SE	5.59
14)	Nayal	SE	5.57
15)	Tunera	SW	5.97
16)	Chata	S	6.60
17)	Dhunga	SW	6.92
18)	Kunkhet	SE	7.46
19)	Bhiri	S	8.13
20)	Arara	SW	8.15
21)	Matyoli	S	9.84
22)	Pagana	S	9.56
23)	Bhatgar	SW	9.39
24)	Bihargaon	SW	9.25
25)	Ghiroli	W	4.35
26)	Joshi Gaon	SW	4.23
27)	Falthiya	SW	4.54
28)	Chhati	SW	5.06
29)	Bageshwar	SW	6.40
30)	Village Tyunara	SW	7.50
31)	Bilona Sera	SW	7.94
32)	Pauri	SW	8.38
33)	Pauri Band	SW	9.40
34)	Kafoli	SW	9.17
35)	Borgaon	SW	9.48
36)	Bijori	SW	9.19
37)	Belta	SE	9.45
38)	Khali	SW	8.38
39)	Kohli Village	SW	8.42
40)	Matiyoli	SW	5.43
41)	Namtichetabagar	SW	5.73
42)	Bari Khalsa	SW	6.47
43)	Kaphalket	SW	6.75
44)	Adoli	SW	5.75
45)	Chirang	NW	1.35
46)	Gajali	N	0.91

47)	Kaulag	NW	1.79
48)	Khuldori	NW	2.55
49)	Kukrauli	NW	3.72
50)	Manikhet	NW	4.65
51)	Kukragar	NW	6.29
52)	Chamerta	NW	8.40
53)	Tulyari	NW	9.49
54)	Harwar	NW	8.26
55)	Syaldoba	NW	5.51
56)	Gwar	NW	4.90
57)	Anarsa	NW	4.64
58)	Sima	N	4.22
59)	Harsila	NW	4.64
60)	Chalkana	N	5.96
61)	Kapholi	NW	6.75
62)	Nankanyalikot	NW	8.10
63)	Pundra Pali	NW	7.65
64)	Purkot	NW	6.91
65)	Falnate	NW	6.32
66)	Chachai	NW	7.64
67)	Jakh	NW	9.36
68)	Devalchaura	NW	3.96
69)	Dungari	E	2.07
70)	Chaura	NE	2.94
71)	Chhatikhet	E	4.52
72)	Rithayat	E	5.98
73)	Naughar	E	7.54
74)	Moudiyar	E	8.88
75)	Gurgucha Upadhya	NE	4.55
76)	Papu	NE	5.06
77)	Gapani	NE	3.27
78)	Kamketpani	NE	4.29
79)	Palen	NE	5.93
80)	Batal Gaon	NE	5.39
81)	Pakar	NE	7.10
82)	Fusera	NE	7.52
83)	Gwatoli	NE	6.66
84)	Nari	NE	7.72
85)	Sundil	NE	9.07
86)	Kande Thapliya	NE	8.28
87)	Baskunda	NE	9.32
88)	Ukhal Dhar	NE	6.23
89)	Rainthal	NE	6.43
90)	Khadgera	NE	7.37
91)	Ason	NE	8.89
92)	Utaraura	NE	8.53
93)	Poling	NE	7.76
94)	Jankuri	NE	7.60
95)	Chhuriya Panaura	NE	8.78
96)	Gainar	NE	9.41
97)	Reetha Bagar	NE	7.26
98)	Lili	NE	8.55

99)	Karuli	SE	0.54
100)	Simtola	SE	1.30
101)	Gairar	SE	1.65
102)	Khuna	SE	1.86
103)	Maswari	SE	2.15
104)	Sela	SE	2.43
105)	Era Gunth	SE	3.05
106)	Ujera	SE	3.48
107)	Jol Gaon	SE	3.92
108)	Dewali Gunth	SE	4.37
109)	Dhigartola	SE	5.03
110)	Jaltha Kot	SE	6.25
111)	Dhapoli	SE	7.17
112)	Kwairali	SE	8.17
113)	Jethai	SE	9.50
114)	Alkanaya	SE	8.14
115)	Lohar Khet	SE	7.91
116)	Menhara Gaon	SE	8.68
117)	Pang Chora	SE	9.11
118)	Bhandar	SE	9.39
119)	Jogswar	SE	8.25
120)	Bijet	Se	8.36
121)	Musoti Chakjosh	SE	7.12
122)	Kande Kanyal	SE	7.93
123)	Dharari	SE	8.36
124)	Naghar Majila	SE	9.13
125)	Jagthali Gunth	SE	9.61
126)	Delmel	SE	8.90
127)	Mithun Kot	SE	9.04
128)	Pokheri	SE	9.76
129)	Hathraiya	SE	8.74
130)	Bijepur	SE	9.15
131)	Kunera	SE	7.32
132)	Bhanker Pant	SE	7.05
133)	Majbe	SE	6.33
134)	Bakhet	SE	6.81
135)	Dofar Laggakakrt	SE	6.16
136)	Rajoli	SE	8.06
137)	Dhunga Pant	SE	9.30
138)	Banstoli	SE	8.49
139)	Dyorakh	SE	7.73
140)	Bhatgar	SE	7.14
141)	Rankanda	SE	6.37
142)	Painsiya	SE	6.10
143)	Choni	SE	5.63
144)	Thaklan	SE	4.49
145)	Bheru	SE	4.08
146)	Bhatora	SE	3.59
147)	Khunoli	SE	4.17
148)	Girari	SE	2.80
149)	Methara	SE	2.44
150)	Jal Gaon	SE	3.91

151)	Nagha Sahu	SE	5.07
152)	Bahliya Mafi	SE	5.79

3.13 SOCIO-ECONOMIC IMPACT ASSESSMENT

3.13.1 Impact on Population Composition

No impact is envisaged on the population composition of the study area as there will be no in-migration or out-migration of villagers. Those who will be engaged in Soapstone mining will be recruited locally.

3.13.2 Impact on Employment

For extraction of Soapstone the project proponent has ensured that only local people will be recruited for the operation of the upcoming mine at village Kabhata. The exact number of people to be recruited will depend upon quantity of the minerals to be extracted over a period of time. In the initial period the number of such people will be less but gradually it will go up when the production will increase in a phased manner. The project proponent has planned to recruit locals for the operation of the upcoming mine. Though marginally, the dependency rate in the study area will decline by one percent with the commencement of the above soapstone mine. This is a positive impact of the project.

3.13.3 Increased Supply of Soapstone

Soapstone Powder is an important industrial mineral. The soapstone powder should be milky white, free from impurities and soapy feel. It is widely used as basic material in Cosmetic and Paper industry. It is an important raw material in the manufacture of talc in the cosmetic industry. It is also used in rubber, paper plastic and other allied industries. There is always a good demand for soapstone for industrial uses. With the commencement of the proposed mining project at village Kabhata, the supply of soapstone powder in the domestic market will increase by about 24000 per annum (maximum). This is a direct and positive impact of the upcoming mining project.

3.13.4 Impact on Approach Roads

Movement of trucks and other vehicles to and fro the quarry site is expected to increase substantially, when the operation of the mine will commence. The existing roads connecting the quarry with the national and state highways are mud roads and they are narrow. There will be mud slide and traffic bottle neck if these roads are not widened and their conditions are not improved by making them paved roads. Hence, there is a wide scope for road development in the area. This is a positive impact of the upcoming mining project. The proposed mining will lead to 31 nos of PCUs in the approach road; hence there shall be negligible impact on the approach road due to the proposed mining.

3.13.5 Impact on Law & Order

Since the workers will attend to their duties from their residence and return to their homes after the day's work is over there will be no law & order problem as such. On the other hand, if the workers are migrants and live in shanties closed to the mining area it may create law &

order problem and ethnic issues. To meet any untoward incident one police post may be set up close to the project area.

3.13.6 Impact on Vulnerable Groups of People

No impact is envisaged on vulnerable groups of people that include hospital patients, children, pregnant women and elderly persons. There will be no re-habilitation and resettlement issues that may adversely affect the people living adjoining the mine lease area. The social welfare activities to be taken up by the mine owner will definitely make positive impact on the living conditions of people including those who fall under vulnerable groups.

3.13.7 Income to Government

The proposed soapstone mining at village Kabhata will bring income for the state government in the form of royalty, dead rent and taxes. This is a positive impact of the project.

Extraction of soapstone may pose serious health risks if it is not handled carefully. It can affect the body adversely if it is inhaled or if it comes in contract with eyes or skin. Exposure to soapstone may damage the lungs. Shortness of breath, cough, enlargement of the ends of the fingers and heart failure may occur due to continuous exposure to soapstone dust. There are reports of cancer cases among the workers engaged in mining of soapstone. Hence, preventive measures should be taken to protect oneself from the exposure of soapstone, while working in a soapstone mine. This is a negative impact of soapstone mining. The project proponent will undertake the following preventive measures, in order to protect the workers from the exposure of soapstone:

1) Consult to Physician

A physician will be consulted if anyone develops any sign or symptom caused due to exposure to soapstone.

2) Regular medical surveillances

Regular medical surveillances of the workers will be made. In case anyone get adversely affected due to soapstone mining the miner will be medically examined and provided medical assistances regularly. They will also be medically checked annually.

3) Provision of First Aid at mining site

Extraction of soap stones, from the mining site may pose serious health risks due to dust. To meet any emergency during extraction of the minerals from the mining site and subsequent loading in the transport vehicles, provision for First Aid will be made by the project proponent. Before the affected person is removed to a doctor or health institution for necessary medical aid, the miner will be provided with First Aid.

4) Tie up with the nearest PHC for medical help

At present there are no adequate health facilities available in the mining village. To meet the medical needs of the mine workers, tie-ups with nearest hospital or Primary Health Center (PHC) will be made. Few beds will exclusively be reserved for the mine workers in the above health institutions. This will ensure timely medical aid to the affected persons.

5) Supply of Masks and Gloves

The mine workers are subject to respiratory diseases, muscular-skeletal and gastro-intestinal disorders and skin diseases. For protection from dust it will be made compulsory for all mine workers to wear masks and gloves while working in the mines.

6) Health Camps

Health Camps will be organized at regular intervals preferably in every quarter. Further, free medical facilities will be made available to the workers and their family members.

7) Administration of Anti-venom injections

Provision of Anti-venom therapy will be made available at the nearest health institution. Anti-venom injections will be administrated to the mine workers in case of snake, spider and insect bites, while working in the mines.

8) Special telephone number

A special telephone number will be available to the mine workers. In case of emergency the miners can dial the above number for medical assistances. Vehicle will be provided to the patients in short duration for shifting to the health institution.

9) Special Group Insurance Scheme

All the mine workers will be covered under a Group Insurance Scheme of LIC or any other Insurance company.

3.14 CONCLUSION

The implementation of the soapstone mining project at village Karuli, Tehsil, District Bageshwar, and Uttarakhand will generate both direct and indirect employment. It will also promote legally valid mining in the area and bring income to the state exchequer. It is expected that intending entrepreneurs will venture to set up soapstone based industrial units in the near future making the area a mixed society, dependent on industry, trade and business. At present agriculture is the main occupation of the people as eighty percent of the total working population depends on it. With the implementation of the proposed mining project the occupational pattern of the people

in the area may change making more people engaged in industrial and business activities rather in agriculture. Thus there will be a gradual shifting of population from agricultural sector to mining and industry. Due to industrialization of the area, employment opportunities will further increase.

The study area is still lacking in infrastructure. It is expected that the same will improve to a great extent due to proposed mining project and associated industrial and business activities. It is therefore suggested that the commencement of the mining operation at village Karuli may be taken up on priority basis as employment opportunists are intended for the local aspirant.

CHAPTER 4: ANTICIPATED ENVIRONMENTAL IMPACTS & MITIGATION MEASURES

4.1 DETAILS OF THE INVESTIGATED ENVIRONMENTAL IMPACTS

This chapter provides a brief overview of the potential impacts on various environmental components due to the proposed opencast mining activities. The opencast mining operations in general cause environmental degradation and if adequate control measures are not taken to prevent/mitigate the adverse environmental impacts, these operations may cause irreversible damage to the eco-system. The environmental parameters most commonly affected by mining activities are:

- Topography and drainage;
- Air quality including Climate
- Noise levels and ground vibrations;
- Water resources and quality;
- Land use Pattern;
- Soil quality;
- Flora and Fauna;
- Socio-Economic conditions; and
- Occupational Health.

Various environmental impacts, which have been identified due to the mining activities, are discussed in the following Chapters and mitigation measures are suggested.

4.1.1 Impact on Drainage

Water table in this area is very deep ranging from 75 to 90m. No water problem is envisaged in the working pits since the rain water will be coursed through the garland drain to be provided on the upper side of the mine lease area and drainage on the benches provided on the hillside by slight slopping the benches. The only source of the water shall be the rainwater which shall flow along the natural slopes. The lesse have provided five check dams to course the water and control the flow of the scree material into the nala. The check dams have been proposed to restrict scree material from going to Nala to check further water pollution. There are no water bodies within the lease area. However there are seasonal tributaries or stream inside the leasehold areas; however, rain water flows down to southern slopes towards the valley causing no problem to the habitat. Thus there is no impact on drainage pattern of the area.

4.2 WATER ENVIRONMENT

4.2.1 Impact on Water Resources

Surface Water Resources

The topography of the area will not be largely changed in view of the proposed concurrent reclamation. During the mining activity period, there is a possibility of mixing of freshly disturbed

material with the rain water. To take care of such happenings, retaining walls have been provided along the backfilled pits and along the soil and interburden dumps.

Groundwater Resources

The water table in hills is usually very deep and does not have any relevance with mining activities. However, concurrent restoration to original topography will not disturb the percolating water. The details of the site elevation and working depth are shown in **Table 4.1**.

Table-4.1 Site Elevation and Working Depth Details

Particulars	Details
Elevation	1107 m to 1208 AMSL
Ground Water Table	1250 mRL
Ultimate working depth	12m

4.2.2 Impact on Water Quality

Mining activities cause adverse impacts due to mine drainage, siltation due to storm water and contaminated water from workshops and domestic sewage water. Various components have been identified for study of impact of the mine operations.

- ***Impact on Surface Water Quality***

The impact on water quality will be confined to increased suspended solids during rain. There are no water bodies within the lease area. There are no water bodies within the lease area. However there are seasonal tributaries or stream inside the leasehold areas; however, rain water flows down to southern slopes towards the valley causing no problem to the habitat. Before the commencement of rainy season, all the mined out pit shall be prematurely backfilled so chances of accumulation of rainy water in the mining pit shall be nil during first five years. Pungar river is approximately 1 km away from the mine lease area and there will be no impact on the river due to the proposed project.

The interburden to be generated will be temporary on nature & used for the purpose of backfilling each year before commencement of monsoon so that rain water will not accumulated in the mined out pit. It is however water sprinkling on the foot track shall be carried out during summer month to suppress the dust. Retaining wall shall be proposed along the slope of dump for its stabilization. The course of drainage shall not be disturbed due to mining & allied activities.

The topography of the area will not be largely changed in view of the proposed concurrent reclamation. During the mining activity period, there is a possibility of mixing of fleshly disturbed material with the rain water. To take care of such happenings, retaining walls have been provided along the backfilled pits and toe walls along the existing interburden dumps. Analysis results of surface water samples collected from rivers in the buffer zone indicate that the pH, total dissolved solids (TDS) are well below the prescribed limits.

No adverse impact was noticed. The mine water from sump will be used for water sprinkling and plantation purpose posing positive impact in buffer zone.

- **Impact on Ground Water Quality**

Mine working will not go beyond 1515 m RL & depth of pit during next five years shall be 3-8m & water table will not be intersected by mining operations.

4.2.3 `Wastewater Generation, Treatment & Disposal

The total water consumption in the Proposed Soapstone Mine shall be about 10 KLD. The water is used in the following purposes.

- For dust suppression
- For domestic consumption
- For greenbelt development

It is proposed to obtain water for drinking and operations from water sources under Gram *Panchayat* of Pacahr. There will no settlement near the site as the workers will be hired from nearby villages so no significant liquid effluent will be generated.

4.2.3.1 Measures for Minimizing Adverse Impacts

Seasonal drainage exists near to the project site. The mining is being carried in hilly region. The problem of ground water pumping will not arise. Rain water will not accumulate in the mining pit & it will be channelized along the slopes. The mining work will usually be confined within gullet driven from north-south & a ledge of about one meter height will be kept on the outer edge so that in discrete water flow will be avoided. The interburden and top soil will be used in backfilling. Further no significant impact on water quality is anticipated as material exposed will be low grade magnesite & is very feebly react with water that too when water becomes acidic. Even of reaction takes place it gives arise to increased temporary hardness of water. Water is being supplied from the spring. No hydrological studies have been carried out in the area.

- ***Surface Water***
  - There is a possibility of mixing of freshly disturbed material with the rain water. To take care of such happenings, retaining walls have been provided along the backfilled pits and along the soil and interburden dumps.
  - Monitoring of water will be carried out periodically. Water analysis will be carried out seasonally.

- ***Ground Water Pollution***

  - The domestic sewage from the canteen and toilets will be routed to septic tanks.
  - Regular monitoring of water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring the water levels and quality around the mine representing both upstream and downstream conditions.

4.3 IMPACT ON LAND USE

➢ **Land use Pattern in Core Zone**

The proposed opencast mine will result in change of land use pattern of the ML area. The land degradation is expected during mining activities like excavation, overburden dumping, soil extraction etc. Land requirement for the project has been assessed considering functional needs.

Various components of land environment have been identified for study of impact of the mining operations. Details of the same are given below:

Impact on land use & reclamation of mined out areas

Opencast mining activities may alter the landscape of the lease area and also cause some disturbance to the surface features of the surrounding areas. Mining will be done after leaving 7.5 m safety barrier.

Plantation will be developed in consultation with district administration/ local authority, wherever feasible.

The Existing land use pattern is agricultural land. The Existing land use pattern indicating the area already degraded due to quarrying/pitting dumping, roads, processing plants, workshop, township etc. in a tabular form is shown in **Table 4.2.**

Table 4.2: Existing land use pattern

Name of Land use	Forest Land (ha)	Crop Land (ha)	Grazing Land (ha)	Waste Land (ha)	Revenue Land (ha)	Total (ha)	Indicate land required outside applied area (ha)
(a) Pit & Quarries	-	1.829	-	-	-	1.829	-
(b) Dumps of ore waste & Overburden	-	0.025	-	-	-	0.025	-
(c) Mineral stack	-	0.005	-	-	-	0.005	-
(d) Infrastructure including of office, workshop, plants & road	-	0.200	-	-		0.200	-
(e) Township	-	-	-	-	-	-	-
(f) others (i) Barren land (ii) Crop land	-	 5.782				 5.782	
Total area	-	7.841	-	-	-	7.841	-
(g) Area backfilled by mine owners	-	1.829	-	-	-	1.829	-
(h) Area afforested by mine owners	-	-	-	-	0.459	0.459	-

Source: Mine plan

The impact on land form or physiography will be land use on the hilly terrain will undergo radical changes due to the open cast mining. During the next five years mining, 2.798 ha land will be degraded due to mining & allied activities. The breakup of the land to be affected during the five years and end of conceptual period of due to mining operation is shown in **Table 4.3:**

Table 4.3: Breakup of the land to be affected during the five years and end of conceptual period of due to mining operation

S. No.	Description	Area (ha)	Reclaimed & Rehabilitated till end of last MP/MS period (ha)	To be Reclaimed & Rehabilitated till the end of present plan/ scheme period (ha)	To be Reclaimed & Rehabil-itated till the end of life of mine (ha)	*To be Reclaimed & Rehabil-itated after end of life of mine (ha)	Remarks Area to be reclaimed by the end of lease (ha)
1	Mining (Quarry)	1.829	-	1.829	7.841	-	6.223
2	Waste dump	0.025	-	0.025			0.025
3	Office infrastructure	0.009	-	0.009			0.009
4	Processing plant	-	-	-			
5	Mineral Stack/Processing yard	0.005	-	0.005			0.005
6	Sub grade mineral stacks	-	-	-			-
7	Roads	0.191	-	0.191			0.764
8	Water course/pond/ reservoir	-	-	-			-
9	Unutilized area	5.782		5.782			0.811
	Total	**7.841**		**7.841**			**7.841**

Note: All the quantities of top soil & interburden material to be generated by the end of plan/conceptual period shall be used for the purpose of reclamation over the mined unit land. Therefore no proposal for separate stacking of top soil and interburden dump has been proposed.

(A) Mining:

Mines out land	Crop/Nap land (ha)
(a) (i) Area already broken up	-
(ii) Area already backfilled	-
(iii) Area already reclaimed	-
(b) (i) Additional area proposed to be broken up during first 5 year	1.829
(ii) Additional area proposed to be backfilled	
iii) Additional area proposed to be reclaimed	1.829

(B) Dump:

Dump-Soil & Interburden (IB)	Crop/Nap land (ha)
(i) Area occupied by dump	Soil- 0.013 IB- 0.012
(ii) Additional area to be covered by dump	-
(iii) Dump area to be covered by protective measures	-

(C) Plantation:

C. Plantation	Revenue/Benap land (ha.)	Crop/Nap land (ha)
(i) Area already occupied	-	-
(ii) Area proposed to be covered under plantation in next five years	-	0.459

Solid waste generation and management

Disposal of Waste:

The top soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and stacked separately. The soil intermixed with fragments and interburden rejects are low grade magnesite. Part of these rejects will be utilized in construction and maintenance of retaining walls, parapet walls, check dams and other construction works. About 36780 cum of rejects will be used for this task, and in dump yard remaining rejects about 85820 cum will be backfilled.

The quantity of top soil, interburden & mineral rejects to be generated in each year is shown in **Table 4.4:**

Table 4.4: Details of Top soil, interburden & mineral rejects

Year	Top Soil (cum)	Interburden (cum)	Mineral Rejects (cum)
I	3789.2	21618.94	25408.14
II	4379.08	25913.76	30292.84
III	5291.74	26294.31	31586.05
IV	3394.52	24454.03	27848.55
V	3020.88	24319.78	27340.66
Total	**19875.42**	**122600.82**	**142476.24**

Mitigation measures

- Access roads from public roads will be aligned in such a way that it would cause least damage.
- The banks cut for ramp will also be restored at the closing of mine during monsoon.

- Vegetation development is proposed along the lease area as restoration work.
- Plantation is proposed along the road sides, civic amenities in consultation with local/ govt. authorities. While selecting the plant species, preference will be given for planting native species of the area.

Storage and preservation of top soil:

The soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and loaded manually to stack on the dump yard. Stacking will commence at RL 1215m to RL 1221m in first & second year, RL 1140m to RL 1143m in third year, RL 1119m to RL 1122m in fourth & RL1125m to RL RL 1128m in fifth year. The spread of stacks will be undertaken through mechanically and manually both & average dump height kept 1.5m. In first year 146 m^2 areas was earmarked for stacking of soil with 1.5m height. In second area it is 147 m^2 areas. Similarly in third, fourth & in fifth year 146 m^2, 145 m^2 and 146 m^2 area have been respectively earmarked for stacking of soil with 1.5m average height. The year wise spread of stack is shown in **Table 4.5.**

Table 4.5: Details of Soil stack (year wise)

Soil stack	I year	II year	III year	IV year	V year
Length	24m	26m	25m	27m	24m
Width	10m	10m	10m	10m	10m
Average height	1.5m	1.5m	1.5m	1.5m	1.5m
Angle of repose	36^0	36^0	36^0	36^0	36^0

Proposal for reclamation of land affected by mining activities:

The mining will commence from the higher levels and will advance towards lower levels. Intermittent backfilling will commence from the higher levels and subsequently advance towards the lower elevation so that terraced agriculture fields would undertake in such a manner that original land use will be restored i.e. before the onset of monsoon will be handed over to cultivators for cultivation. The final backfilling will be started once the ultimate benches are formed and pit reaches the optimum economic depth. All recovery of the mineral will be of the saleable grade. The quantum of development and mineral to overburden soil and interburden in the pit is shown in **Table 4.6.**

Table 4.6: Quantum of development and mineral to overburden soil and interburden in the pit

Year	Overburden soil (cum)	ROM (Tonnes)	Interburden (cum)	Stripping ratio
I	25,408.14	20000	21618.94	1:0.43
II	32,251.35	24000	25913.76	1:0.41
III	34,115.63	24000	26294.31	1:0.40
IV	27,848.55	23000	24454.03	1:0.44
V	28,904.69	23000	24319.78	1:0.43
Total	**148528.36**	**114000**	**122600.82**	

4.4 IMPACT ON AIR ENVIRONMENT

4.4.1 Change in Ambient air and GLC

The air pollution impact of excavation in ordinary earth and boulders and rock is directly dependent upon construction methodology, annual rate of excavation, mode of transport within the construction site, mode of screening and method of crushing. The air pollution sources at the proposed project site can be broadly classified into three categories, viz. area source, line source and instantaneous point source.

Excavation by various activities in project area is construed as an area source which includes excavation pit(s) and activities happening in the excavation area like digging, dozing, hauling and loading/unloading. The dust emission from these areas will be fugitive in nature. The excavator operations, loading/unloading operations will also cause dust emission though it will be confined to the area of operation of the machinery. The gaseous emission from their operation shall be minimal and limited within the project.

Transportation of excavated material from the project site to dumping sites area categorized as line source. Since the dumper movement on haul road will be within the project area, no adverse impact shall be felt in the settlement area.

4.4.1.1 Dust Dispersion Modeling for Excavation Operation

In the present study, United States Environmental Protection Agency (USEPA–42 series) approved mathematical equations have been used to predict concentrations for different operations in project including the material transportation. To predict the particulate emissions, Envitrans AERMOD Cloud. (Air Dispersion Modeling Software) an interface based on ISCST3 – was used to predict changes in air quality i.e., maximum ground level concentration (GLC's) of Particulate Matter. Short term model options were opted for uniform emissions rates. The concentration of other gaseous pollutants i.e. SO2 and Nox was found to be much lower than the threshold limit (80 µg/m3), the air modeling was restricted to determination of PM10 and PM2.5 in the present case. The emission factors adopted for various project operations are mentioned below:

Emission Factor for Excavation and Material Loading/unloading

For excavation and material handling the emission factor for PM_{10} has been adopted as per USEPA – 42 series.

For Dozing Operation:

$EFPM_{10}$ (kg/hr) = 0.34 X s1.5 (%) / M1.4(%)

Where,

$EFPM_{10}$ (kg/hr) = emission factor in kg/hr

S = silt contents in percentage by weight

M = moisture content in percentage by weight

For Material Loading/unloading:

$EFPM_{10}$ (kg/hr) = 0.34 [0.119 / M0.9]

Where,

$EFPM_{10}$ (kg/hr) = emission factor in kg/ton

M = moisture content in percentage by weight.

Emission Factor for Material Haulage within Project:

The emission rate is dependent on several factors which include soil properties, climatic conditions, vehicular traffic, wind forces and machinery operation. The Empirical equation for calculation of emission rate is as under.

E= k*(1.7) *(s/12) *(S/48) *(W/2.7)0.7*(W/2.7)0.7 (w/4)0.5 * (365-p/365) g/VKT
Where,
E=Emission Rate
K = Particle size multiplier
s=Silt Content of the Road surface material
S= Mean Vehicle Speed (km/hr)
W=Mean Vehicle Weight (tons)
w=Mean number of wheels
p= Number of days with at least 0.254mm of precipitation per year

Note: The emission factor for PM2.5 has been considered 60% of PM10.
The Isopleths developed are shown in **Figure 4.1 (a)** and **Figure 4.1 (b) for PM_{10}** and **$PM_{2.5}$ respectively.** The maximum GLC due to excavation, loading & unloading activities for PM_{10} and $PM_{2.5}$ was found to be 8.3 and 4.1 µg/m3 respectively and has been shown in **Table 4.7**.

Table 4.7 : Maximum Concentration at receptors

Location	Pollutants	N-Cord.	E-Cord.	GLC (µg/m^3)
Project site	PM 10	29.870110°	79.835396°	8.3
Project site	PM 2.5	29.870110°	79.835396°	5.2

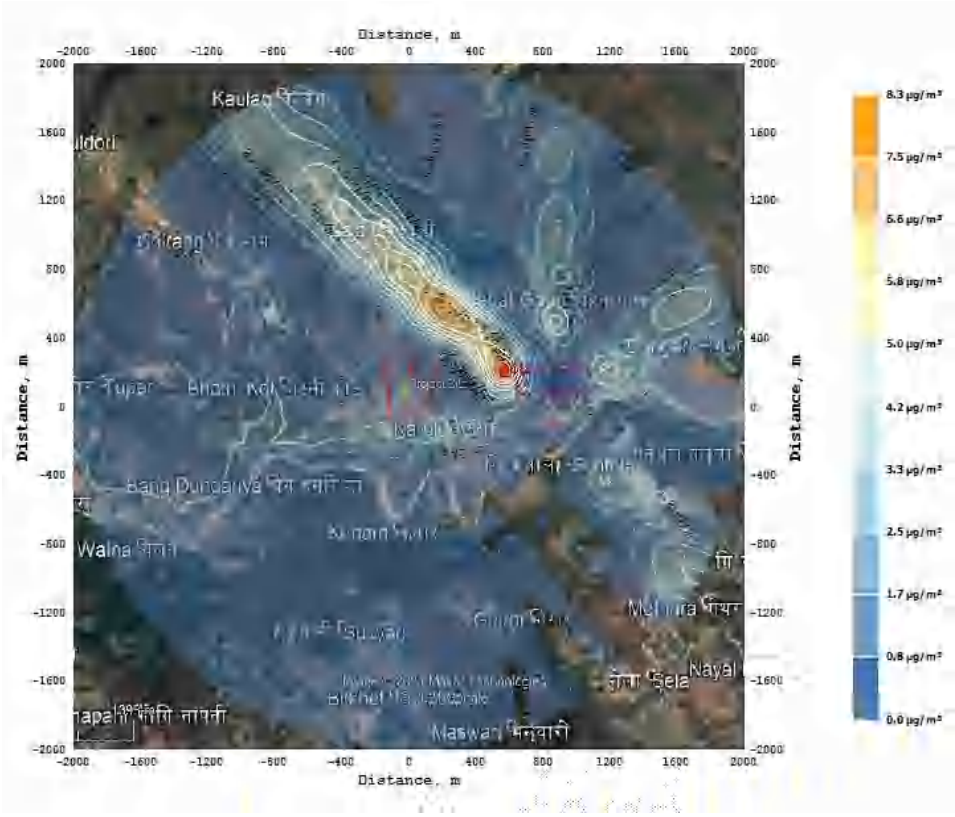


Figure 4.1 (a): Isopleth of Maximum Predicted 24 hourly Ground – Level Concentrations for PM_{10}

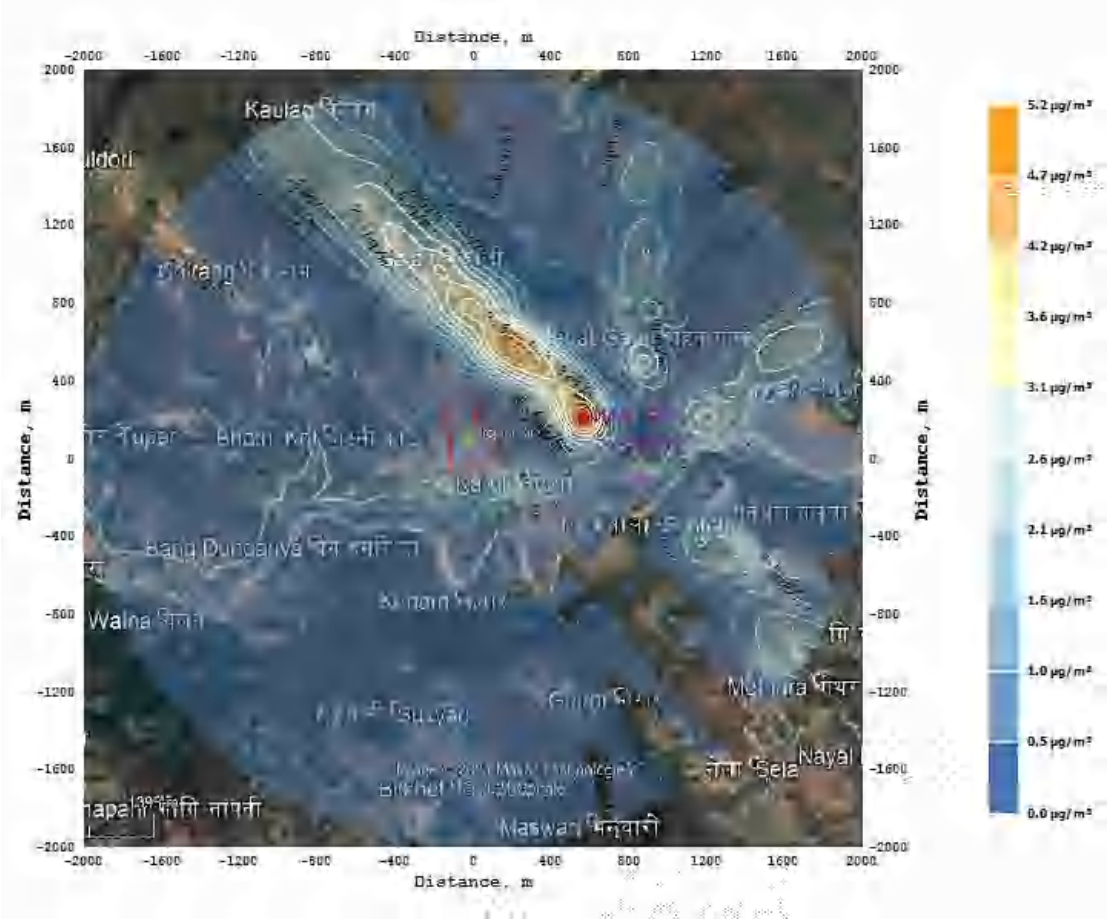


Figure 4.1 (b) : Isopleth of Maximum Predicted 24 hourly Ground – Level Concentrations for PM $_{2.5}$

4.4.1.2 Resultant Impact

The resultant impact due to construction activities (excavation and crushing) on the ambient air quality for PM_{10} and $PM_{2.5}$ at monitoring station project site respectively is presented in **Table 4.8** which shows that, the resultant concentration level is within the NAAQS.

Table 4.8: Resultant levels due to excavation

Station Name	Pollutants	Sampling Station	Max. Conc. (µg/m3)	Predicted GLC (µg/m3)	Resultant concentration (µg/m3)	NAAQS (µg/m3)
Project site	PM10	AAQ 2	53.2	8.3	61.5	100
Project site	PM2.5	AAQ 2	27.1	5.2	32.3	60

4.5 PROPOSED MITIGATION MEASURES FOR DUST SUPPRESSION

Soapstone is a talcose rock mineral composed of hydrous magnesium silicate: **3** MgO-4Si02-H20. The specific gravity is around 1. Therefore emissions due to mineral handling during mining operation are not much and restricted to the lease area only. Air pollution is caused mainly due to dust generation added with gaseous emission from transportation activities along with mining operation like evacuation, loading, haulage etc. Proper mitigation measures will be

practiced during mining activities to control air pollution load below the prescribed limits. The same are as follows:

Control of Fugitive Emissions

- Use of Personal Protection Equipment's (PPE) like dust masks, ear plugs etc. by the mine workers.
- Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.
- Rock breaker will be used for breaking over size boulders in order to reduce dust and noise generation, which otherwise would be generated due to secondary blasting.
- Regular water sprinkling on haul roads & loading points will be carried out.
- Development of green belt/plantation around the lease boundary, roads, dumps etc.

Prevention and control of Gaseous Pollution

- Open cast manual method will be adopted in this case and there is no provision for blasting. The main source of gaseous emissions would be transportation.
- Approx 100 tonnes/day of soapstone will be produced per day and the transportation will be done with covered materials to prevent any spillage and also prevent fugitive dust emission due to wind.
- Any gaseous emission transportation will be negligible and not impact the ambient quality.
- Exhaust emission will be monitored of the trucks and to be kept below the permissible limit.
- Proper maintenance of machines improves combustion process & makes reduction in the pollution. Good maintenance and monitoring of fuel and oil will not allow significant addition in the gaseous emission.

The sources of pollutants from mining activities are given in **Table-4.9**.

Table 4.9: Sources of Pollutants

Sr. No.	Source	Type of Pollutant
1	Transport of Overburden or soil for dumping/ backfill	SPM
2	Dumping of waste	SPM
3	Loading of ore	SPM
4	Transportation of ore	SPM, NOx

4.6 NOISE ENVIRONMENT

4.6.1 Noise Impact on Working Environment

As mining will be done by manual cum semi-mechanized means, noise will only be generated due evacuation, transportation activities. The noise generated by the mining activity dissipates

within the mine. There is no major impact of the mining activity on the nearby villages. However, pronounced effect of above noise levels is felt only near the active working area.
The impact of noise on the villages is negligible as the villages are far located from the mine workings. Since there is no involvement of major machinery, the impact of noise levels will be minimal.

4.6.2 Prediction of Noise Impact on Noise level

A noise propagation modeling study has been conducted to find out the impact from the noise generated because of the estimated total traffic flow during operation phase as well as the significance of these impacts. The noise modeling has been done taking into account the additional flow of traffic due to the proposed project. Dhwani PRO is a computer program developed to undertake construction, industrial and traffic noise propagation studies for noise assessment.

4.6.2.1 Outcome of the Noise level Modeling:

The outcome of the noise modeling is as follows:

- The predicted noise levels during both day and night time are within the prescribed limit and there will be no significant impact on noise due to the proposed project.

The Contour map showing noise level due to total traffic outcome has been shown in **Figure 4.2.**

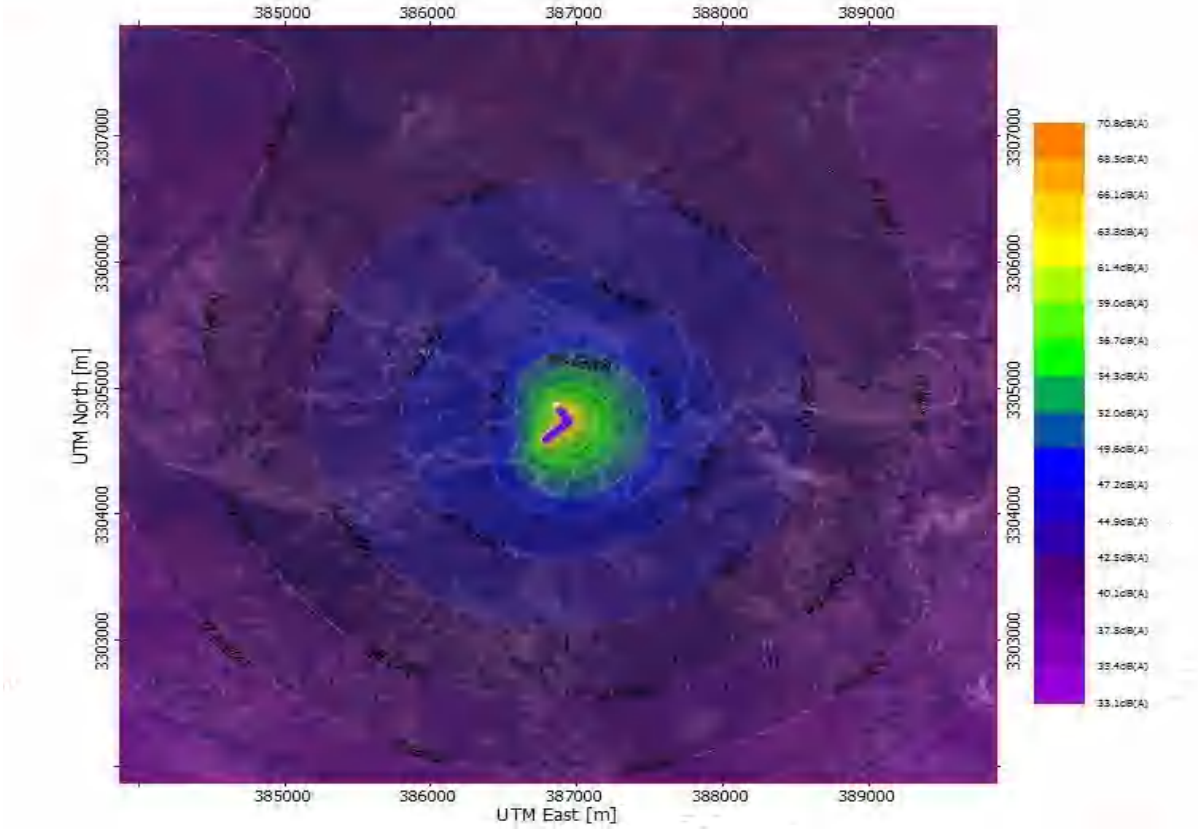


Figure 4.2:- Contour map showing noise levels due to total traffic outcome at the homogenous intersections of 2021 year

4.6.3 Noise Abatement and Control

In this mine the noise level will be upto tolerable limit (90 dbA) and the noise level can be reduced by:

- Proper maintenance, oiling and greasing of transport vehicles at regular intervals will be done to reduce the generation of noise.
- Adequate silencers will be provided in all the diesel engines.
- Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise.
- Personal Protective Equipments (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone.
- Periodical noise level monitoring will be done.

Frequency levels and associated mental and physical response of humans are given in **Table-4.10.**

Table 4.10: Noise Exposure Levels & Its Effects

Noise Levels dB (A)	Exposure Time	Effects
85	Continuous	Safe
85-90	Continuous	Annoyance and irritation
90-100	Short term	Temporary shift in hearing threshold, generally with complete recovery
Above 100	Continuous	Permanent loss of hearing
	Short term	Permanent hearing loss can be avoided
100-110	Several years	Permanent deafness
110-120	Few months	Permanent deafness
120	Short term	Extreme discomfort
140	Short term	Discomfort with actual pain
150 and above	Single exposure	Mechanical damage to the ear

Source: Hand Book of EIA, Rao & Wooten

4.7 GREENBELT AND PLANTATION

Proposed Plantation at the Mine Site

The main aim of plantation in the mined out areas is to stabilize the land to protect it from rain and wind erosion. The plantation scheme broadly covers the following areas:

- Greenbelt around peripheral portions of the ML; and
- Plantation will be raised along the boundaries of the mining lease by planting the native species around ML area, backfilled and reclaimed area, around water body, etc. in consultation with the local DFO/Agriculture department. The density of the trees proposed for 5 years will be 5459 plants.

Greenbelt Development in ML area

The entire plantation will be done on the periphery of the reclaimed area. Precautionary measures will be taken for care of the forestation made by regular watering in the afforested area, to protect from grazing animals and proper manuring.

Number of Saplings to be Planted and Budgetary Estimate of the Green Cover

The breakup of the proposed afforestation programme with reclamation in progressive manner for entire life of mine is given in **Table 4.11.**

Table 4.11: Year-wise Afforestation Schedule

Year	Plantation in between lease boundary and UPL	
	Area (ha.)	No. of saplings
2020-21	0.043	43
2021-22	0.065	65
2022-23	0.177	177
2023-24	0.135	135
2024-25	0.039	39
Total	**0.459**	**459**

*****Besides these 5000 nos. of more samplings will be done all along the periphery of the mine lease area and in the nearby van panchayat land in Karuli, Hirmoli and Simtola villages. Total no. of trees shall be planted in the first two years and in the next three years its maintenance will take place. Local native species like Peach (Khubani), Pears (Nashpati), Apricot (Aaru), Plumk, Mehal, Kaphal, Chilmora etc. shall be planted**.**

The plants recommended for afforestation are as per Guidelines for Developing Greenbelts, CPCB, March 2000 and listed in **Table 4.12.**

Table 4.12: Suitable Plant Species for Green Belt Plantation

Sl.No.	Species	Family	Habit
1.	*Alternanthera paronychioides*	Amaranthaceae	Herb
2.	*Alternanthera pungens*	Amaranthaceae	Herb
3.	*Grangea maderaspatana*	Asteraceae	Herb
4.	*Cassia tora*	Fabaceae	Herb
5.	*Brachiaria ramosa*	Poaceae	Herb
6.	*Cynodon dactylon*	Poaceae	Herb
7.	*Eleusine indica*	Poaceae	Herb
8.	*Eragrostis tenella*	Poaceae	Herb
9.	*Saccharum spontaneum*	Poaceae	Herb
10.	*Physalis minima*	Solanaceae	Herb
11.	*Calotropis procera*	Asclepiadaceae	Shrub
12.	*Cassia occidentalis*	Fabaceae	Shrub
13.	*Croton bonplandianum*	Euphorbiaceae	Shrub

14.	*Abutilon indicum*	Malvaceae	Shrub
15.	*Ziziphus mauritiana*	Rhamnaceae	Shrub
16.	*Datura innoxia*	Solanaceae	Shrub
17.	*Solanum virginianum*	Solanaceae	Shrub
18.	*Berberis vulgaris*	Berberidaceae	Shrub
19.	*Mangifera indica*	Anacardiaceae	Tree
20.	*Ficus racemosa*	Moraceae	Tree
21.	*Cassia fistula*	Fabaceae	Tree
22.	*Ricinus communis*	Euphorbiaceae	Tree
23.	*Albizia lebbeck*	Fabaceae	Tree
24.	*Bauhinia acuminata*	Fabaceae	Tree
25.	*Butea monosperma*	Fabaceae	Tree
26.	*Dalbergia sissoo*	Fabaceae	Tree
27.	*Bombax ceiba*	Malvaceae	Tree
28.	*Azadirachta indica*	Meliaceae	Tree
29.	*Quercus leucotricophera*	Lauraceae	Tree
30.	*Melia azedarach*	Meliaceae	Tree
31.	*Luecena leucocephala*	Fabaceae	Tree
32.	*Bauhinia variegata*	Fabaceae	Tree
33.	*Terminalia bellerica*	Combretaceae	Tree
34.	*Terminalia chebula*	Combretaceae	Tree
35.	*Morus alba*	Moraceae	Tree
36.	*Delonix regia*	Fabaceae	Tree
37.	*Pinus roxburgii*	Pinaceae	Tree
38.	*Celtis australis*	Cannabaceae	Tree

4.8 BIOLOGICAL ENVIRONMENT

The baseline flora and fauna has been depicted in Section-3.11 of Chapter-3. There is no National Parks, Sanctuary, Breeding, roosting places or ecologically sensitive areas within the 10 km periphery of the mine lease area. However, most of the area surrounding to project site are covered with forest land. There no wildlife corridors in 10-km radius area.

No loss of forest resource is envisaged due to the project. No medicinal plants exist in the area.

4.8.1 Impact on Biodiversity

Present data have been collected through direct inventory as well as various Government Departments such as forests, agriculture, fisheries, animal husbandry and various offices to establish the pre-project biological environmental conditions. There are no endangered species, wildlife sanctuary, wildlife corridors, faunal migratory routes or eco-sensitive area near the whole study area. Save the flora/fauna around the project area, is one of the basic objective of present project. For this, mine owner agency planted a good roadside plantation along both side of the mine road.

The mitigative measures proposed are:

- Prior to mining, short awareness program will be conducted for labors to make them aware for way of working.
- No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed.
- No track or new road for movement of labors or vehicles be laid in adjoining area, this will prevent fragmentation, encroachment and human – animal encounter.

4.9 SOCIO - ECONOMIC ENVIRONMENT

The mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement. The mining operation will not disturb/ relocate any village or need resettlement. Thus no adverse impact is anticipated.

The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed Soapstone Mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.

Probable Impact Assessment

Impact on population composition

The impact of the proposed mining project on population composition will be marginal as there will be no major immigration of people from distant areas. Only few skilled and managerial staff will be recruited from outside and the rest will be recruited locally. Similarly, there is no scope for emigration of people and there will be no displacement of people due to land acquisition. The Project Proponent will ensure that all the unskilled workers deployed for mining activities are local recruits. Further, no mining operation will be carried till it is assured that local people has been recruited and deployed for mining operation.

Impact on employment generation

The proposed mining project is expected to provide Direct and Indirect employment opportunities to local people of different skills and trades. It is a positive impact that needs to be encouraged. It has been estimated that 59 workers of various categories will be employed directly.

The employment potentiality of the project is expected to ameliorate the economic condition of the families of those persons who will get employed in the proposed mining project. Further, the project will provide indirect employment to people who will be involved in segregation of extracted mining materials, petty business and service oriented industries.

Impact on Health

Soapstone mining damages water supply as also a health hazard. Scarring of the lungs are the most frequently reported impacts of contact with polluted water and breathing problem due to Soapstone dust particles. There is a risk of death like lung cancer due chronic exposure and also a pleura disease due to inhale of Soapstone dust. These negative impacts of Soapstone mining needs to be viewed seriously.

Impact on consumption pattern

The field survey has revealed that people in the study generally poverty ridden. Increased household income may slightly change and enhance the consumption pattern of few who are burdened with poverty.

Impact on road development

Movement of trucks and other vehicles to and fro the quarry is expected to increase, when mining will start. There is mule road connectivity from the quarry to existing road. The existing roads connecting the quarry with the state highways are mostly narrow mud roads. There will be mud slide and traffic bottle neck if these roads are not widened and their conditions are not improved by making them paved roads. Hence, there is ample scope for road development in and around the mining areas. It is suggested that concerned department in the Government of the state to undertake widening and strengthening of existing roads connecting the mining sites on priority basis. There should also be budgetary support for road development in and around the mining areas.

Impact on law & Order

As local people will be employed to run the quarry, no law & order problem is envisaged. It is expected that the workers will attend to their duties from their residence and return to their homes after the day's work is over. There would have been law & order problem if the workers were migrants and lived in shanties closed to the mining area.

4.10 OCCUPATIONAL HAZARDS AND SAFETY

Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in soapstone mining project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations.
To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced:

- Provision of rest shelters for mine workers with amenities like drinking water etc.
- All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.
- Training of employees for use of safety appliances and first aid in vocational training center.
- Regular maintenance and testing of all equipment as per manufacturers' guidelines.
- Periodical Medical Examination (PME) of all workers by a Medical Officer
- First Aid facility is provided at the mine site.
- Close surveillance of the factors in working environment and work practices which may affect environment and worker's health.

- Working of mine as per approved mining plan and environmental plans.

4.11 PUBLIC HEATH IMPLICATIONS

With the mitigation measures in relation to air pollution, water pollution, soil contamination and noise pollution proposed to be adopted at the mine along with green belt plantation along the periphery of Mining Lease boundary, it is expected that there will be no impact of mining on the population in the impact zone. However, the following measures shall be adopted: Health check of all villagers in the immediate vicinity of the mine shall be carried out periodically. In case any person or a group of persons is found to be suffering from any ailment, directly related to bauxite mining, their medical treatment will be carried out free of cost.

Surface water management shall be adopted to ensure that run-off from the mining are does not adversely affect natural water streams or other water bodies.

All water bodies e.g. wells and surface water sources in the vicinity of the mine, shall be periodically tested for any pollution related to mining operations and remedial action taken, if warranted.

Operators of all transport vehicles shall be instructed not to honk unnecessarily while passing through villages or near schools.

4.12 CORPORATE SOCIAL RESPONSIBILITY

Corporate Social Responsibility (CSR) refers to responsibility of a company to ensure positive impact on environment, consumers, employees, communities, stakeholders and all other members of public sphere. The CSR activities are increasingly being taken up by the project proponents not only as fulfilling of mandatory provisions but also for the formation and or enhancement of brand image. Besides the above, CSR is seen more as a responsibility towards society rather than a business promotion activity. It is the need of the day for expansion of occupational welfare. The activities to be undertaken for the local people under CSR have already been identified. It is expected that this will improve the socio-economic status of the local people and at the same time the popularity of the mining project will enhance. It is proposed to spend five percent of the total cost of the project for the benefits of the local community under CSR activities. The total cost of the project is around Rs. 40 Lacs and the amount earmarked for CSR activities has been worked out to Rs. 4 Lac. It is proposed to spend the above amount during the first five years of the commissioning of the mining project. Based on 'Community Needs Survey' conducted in the study area by the Consultant appointed by the company the following activities are proposed to be taken up for the benefits of the local community. The year wise allocation of funds for the various activities proposed to be taken up under CSR programme has been shown in **Table 4.13**.

The list of activities proposed to be taken up is indicated below:

a) Health Camps

b) Drinking Water Facilities

c) Maintenance of foot track

d) Donation for Temple Construction

e) Donation for cultural activities in the surrounding areas

f) Plantation of trees.

Table 4.13: Year wise allocation of funds for the various activities proposed to be taken up under CSR programme

S. No.	Activities	Allocation of Fund (Rs.)
1	Health Camps	25,000
2	Drinking Water Facilities	15,000
3	Maintenance of foot track	25,000
4	Donation for Temple Construction	15,000
5	Donation for cultural activities in the surrounding areas	20,000
Total		**1,00,000**

For each activity the funds to be earmarked by the proponent will be decided after discussion with the local authority and the beneficiaries. It has been planned to undertake a concurrent evaluation of the activities to be taken up under the CSR programme.

4.13 IMPACT ON TRAFFIC

Traffic study is carried out by understanding the existing carrying capacity of the road in the vicinity of site and flow towards State highway in the area. Then depending on the capacity of the mine, the number of trucks that will be added to the present scenario will be compared to the carrying capacity as recommended by Indian Road Congress (IRC). The existing volume of traffic and, the Level of Service are given in table below.

Existing Traffic Scenario & LOS

Road	V (PCU/day)	C (PCU/day)	Existing V/C Ratio	LOS
Bageshwar – Dofar Dharamgarh Road	600	1100	0.54	B

V= Volume in PCU's/day & C= Capacity in PCU's/ day

During Mine operation

Total Capacity of mine : 24000 TPA

No. of working days : 240 days

Total Capacity of mine/day : 24000 /240 = 100 tonnes/day

Truck Capacity : 9 tonnes

No. of trucks deployed per day : 100/9 = 12 trucks per day

No. of trucks deployed/day to & fro : 12*2=24 trucks

Increase in PCU/day : 53

The addition to traffic by the proposed project during its operation is given table below**:**

Table 4.14 : Additional Traffic Scenario & LOS due to proposed project

Road	V	C	Modified V/C Ratio	LOS
Bageshwar – Dofar Dharamgarh Road	653	1100	0.59	B

From the above analysis it can be seen that the V/C ratio is likely to be changed to 0.59 on Bageshwar – Dofar Dharamgarh Road with LOS remains “B” which is “Good” as per the classification. So the additional load on the carrying capacity of the concerned road is not likely to have much significant adverse effect.

CHAPTER 5: ANALYSIS OF ALTERNATIVES (TECHNOLOGY & SITE)

5.1 SITE ALTERNATIVES UNDER CONSIDERATION

The Soapstone has been identified based on the result of geological investigations and exploration carried out during prospective mining.

The mining projects are site specific as such alternate sites were not considered.

5.2 ANALYSIS OF ALTERNATIVE TECHNOLOGY

5.2.1 Choice of Method of Mining

Factors in the choice of an actual mining method for a given deposit are deposit characteristics, percentage recovery, requirement of health and safety and environmental concerns, production, scheduling scope of mechanization and automation, workforce requirements wage rates, land reclamation, operating and capital cost estimates. The selection of the mining method (development and extraction) is a key decision to be made in the opening up of a mine.

Surface or open pit mining is used for large, near-surface mineral deposits. Mineral is excavated, loaded into trucks, and hauled to a facility where it is crushed and ground to a uniform size for further processing. Surface mining requires the removal and disposal of layers of top soil and underlying rock commonly called the overburden. Mining must be planned so that the combine of mining processing and reclaiming the land is taken up concurrently.

The open cast mining method will be adopted because of the following reasons:

- The open cast mining operations ensure higher mineral conservation.

The method used for mining is efficient for Soapstone mining, so no alternative mining method is proposed.

CHAPTER 6: ENVIRONMENTAL MONITORING PROGRAMME

6.1 INTRODUCTION

The industrial development of any area needs to be intertwined with judicious utilization of non-renewable resources of the study area and within the limits of permissible assimilative capacity. The assimilative capacity of the study area is the maximum amount of pollution load that can be discharged into the environment without affecting the designated use and is governed by dilution, dispersion and removal due to physico-chemical and biological processes.

The Environment Monitoring Programme is required to ensure sustainable development in the study area (10 km) of the project site, hence it needs to be an all-encompassing plan for which the plant authorities, Government, Regulating agencies like Pollution Control Board etc. working in the region and more importantly the affected population of the study area need to extend their co-operation and contribution.

6.2 IMPLEMENTATION SCHEDULE OF MITIGATION MEASURES

The mitigation measures suggested in Chapter-VI will be implemented so as to reduce the impact on the environment due to the operations of the proposed project. Implementation schedule of mitigation measures is given in **Table-6.1**.

Table 6.1 Implementation Schedule

Sr. No.	Recommendations	Time Requirement	Schedule
1	Air pollution control measures	Before commissioning of respective units	Immediate
2	Water pollution control measures	Before commissioning of the mine	Immediate
3	Noise control measures	Along with the commissioning of the mine	Immediate
4	Ecological preservation and upgradation	Stage-wise implementation	Immediate & Progressive

6.2.1 Administrative Aspects & Environmental Monitoring Program

Regular monitoring of environmental parameters is of immense importance to assess the status of environment during project operation. With the knowledge of baseline conditions, the monitoring programme will serve as an indicator for any deterioration in environmental conditions due to operation of the project, to enable taking up suitable mitigatory steps in time to safeguard the environment. Monitoring is as important as that of control of pollution since the efficiency of control measures can only be determined by monitoring.

Usually, as in the case of the study, an Impact Assessment study is carried over short period of time and the data cannot bring out all variations induced by the natural or human activities. Therefore, regular monitoring programme of the environmental parameters is essential to take into account the changes in the environmental quality.

6.2.2 Institutional Arrangements for Environment Protection and Conservation

The mine will be supervised and controlled by an independent Mines Manager supported by adequate team of technically and statutorily qualified personnel apart from the operating staff of skilled, semi-skilled, unskilled and other categories.

The organizational structure for Environment Cell for mining operations is shown in **Figure-6.1**. This Environment Cell is responsible for the management and implementation of the environmental control measures. Basically, this department will supervise the reclamation planning & management, air & water pollution control management, Liasoning with State & Central Statutory agency & Committee.

In case the monitored results of environmental pollution are found to exceed the allowable limits, the Environment Management Cell will suggest remedial action and get these suggestions implemented through the concerned authorities.

The Environment Management Cell will also co-ordinate all the related activities such as collection of statistics of health of workers and population of the region, afforestation and greenbelt development. The Environment Management Cell will review Corporate Environmental performance along with the reporting of non-compliances.

Figure-6.1 Organization Structure for Environment Management

6.3 ENVIRONMENT MONITORING PROGRAMME

Monitoring shall confirm that commitments are being met. This may take the form of direct measurement and recording of quantitative information, such as amounts and concentrations of discharges, emissions and wastes, for measurement against corporate or statutory standards, consent limits or targets. It may also require measurement of ambient environmental quality in the vicinity of a site using ecological/biological, physical and chemical indicators. Monitoring

may include socio-economic interaction, through local liaison activities or even assessment of complaints.

The environmental monitoring will be conducted in the mine operations as follows:

- Air quality;
- Water and wastewater quality;
- Noise levels;
- Soil Quality; and
- Greenbelt Development

The details of post project monitoring are presented in **Table 6.2.**

6.4 REPORTING SCHEDULES

Post project monitoring will be carried out as per conditions stipulated in environmental clearance letter issued by MoEF&CC, consent issued by SPCB as well as according to CPCB guidelines. The project site is considered as core zone and the area lying within 10 km radius from the mine site is considered as buffer zone, where some impacts may be observed on physical and biological environment. In the buffer zone, slight impact may be observed and that too is occasional, table below showing the details of Post Project Monitoring programme.

Table-6.2 Post Project Monitoring Programme

Attributes	Sampling		Measurement Method	Test Procedure
	Network	Frequency		
A. Air Environment				
Meteorological • Wind direction • Relative humidity • Rainfall	Minimum 1 site in the project impact area	Regularly in one season by Weather Monitoring Station	Mechanical/automatic weather station	-
Pollutants PM10, PM2.5	5 locations in the project impact area (Minimum 2 locations in upwind side, 2 sites in downwind side / impact zone and 1 in core zone)	Once in a season.	Gravimetric method	-
			Gravimetric method	-
SO2			EPA Modified West & Geake method	Absorption in Potassium Tetra Chloro-mercurate followed by Colorimetric estimation using P-Rosaniline hydrochloride and Formaldehyde (IS: 5182 Part - II).
NO2			Arsenite modified Jacob & Hochheiser	Absorption in dil. NaOH and then estimated colorimetrically with sulphanilamide and N (I Nepthyle) Ethylene diamine Dihydrochloride and Hydrogen Peroxide (CPCB Method).
B. Water Environment				

pH, Turbidity, Colour, Odour, Taste, TDS, Total Hardness, Calcium hardness, Magnesium hardness, Chloride, Fluoride, Sulphate, Nitrates, Alkalinity, Iron, Copper, Manganese, Mercury, Cadmium, Selenium,	Set of grab Samples during pre and post-monsoon for ground and surface Water in the vicinity.	Diurnal and Season wise	As per IS 10500:2012	Samples for water quality should be collected and analyzed as per : IS : 2488 (Part 1-5) methods for sampling and testing of Industrial effluents Standard methods for examination of water and wastewater analysis published by American Public Health Association
Arsenic, Cyanide, Lead, Zinc, Chromium, Aluminum, Boron, Phenolic Compounds				.
C. Noise				
Noise levels at Day & Night time - Leq dB (A)	Mine Boundary, High noise generating areas within the lease.	Quarterly / Half yearly	As per CPCB norms	As per CPCB norms
D. Soil				
pH, Bulk Density, Soil texture, Nitrogen, Available Phosphorus, Potassium, Calcium, Magnesium, Sodium, Electrical Conductivity, Organic Matter, Chloride	5 locations in the project impact area	Yearly/half yearly	As per USDA Method	As per USDA Method
E. Socioeconomic				
• Demographic structure	Socio-economic survey is based on proportionate,	Minimum for two phases of the project	Primary data collection through Questionnaire	Secondary data from census records, statistical hard books, topo sheets, health

• Infrastructure resource base • Economic resource base • Health status: Morbidity pattern • Cultural and Aesthetic attributes • Education	sampling method			Records and relevant official records available with Govt. agencies

CHAPTER 7: ADDITIONAL STUDIES

7.1 PUBLIC HEARING

In consonance with the EIA notification dated 14th September 2006, vide section 1 (a) related to Public Hearing, the draft EIA/EMP report shall be submitted to the Uttarakhand Environment Protection & Pollution Control Board (UEPPCB) for public hearing**.**

7.2 RISK ASSESSMENT

The complete mining operation will be carried out under the management control and direction of a qualified mine manager. Moreover, mining staff will be sent to refresher courses from time to time to keep them alert. However, following natural/industrial hazards may occur during normal operation.

- Accident due to explosives;
- Accident due to mining equipment; and

In order to take care of above hazard/disasters, the following control measures will be adopted:

- All safety precautions and provisions of Mine Act 1951, Metalliferrous Mines Regulations 1961 and Mines Rules,1955 will be strictly followed during all mining operations;
- Entry of unauthorized persons will be prohibited;
- Firefighting and first-aid provisions in the mines office complex and mining area;
- Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use;
- Training for all the employees working in hazardous premises; Under Mines rules all employees of mines shall have to undergo the training at a regular interval;
- Working of mine, as per approved plans and regularly updating the mine plans;
- Regular maintenance and testing of all mining equipment as per manufacturer's guidelines;
- Suppression of dust on the haulage roads and loading & unloading points ;
- Increasing the awareness of safety and disaster through competitions, posters and other similar drives.

7.2.1 Blasting

No drilling & blasting is proposed as mineral is very soft in nature.

7.2.2 Overburden & Interburden

The overburden (soil) and interburden dumps may cause landslides. High overburden dumps created at the quarry edge may cause sliding of the overburden and interburden dump or may cause failure of the pit slope due to excessive loading, thereby causing loss of life and property. Siltation of surface water may also cause run-off from overburden and interburden dumps.

7.2.3 Machinery

Most of the accidents during transport by trucks, excavators and dozers and other heavy vehicles are often attributable to mechanical failures and human errors.

7.2.4 Water Logging

Water logging in the mine site can be avoided by adopting following measures:

- Due care will be taken to provide retaining wall around the pits.
- Proper drainage will be maintained to eliminate inundation of working pits during rains from run-off water.
- There is no danger of flood or inundation as the ground level.
- Mining operations are not carried below the ground water table; therefore, there will be no disturbance to ground water quality due to mining activity.

Natural resource conservation

- A green belt will be developed so that minimum soil erosion takes place.
- The excavated soil will be refilled in order to minimize the impact on environment.
- In any case the natural habitats of the existing flora and fauna will not be disturbed.
- Use of traditional knowledge in all aspects of conservation.
- Water conservation techniques will be employed.
- Time to time analysis of the soil, water resources etc will be done in order to analyze the negative impacts of mining activities on the environment.
- To prepare management plans for village landscapes. Villages to be seen as landscapes of diverse elements such as forests, scrub, grassland, streams/river, ponds etc.

7.2.5 Earthquake Management Plan

Following measures will be undertaken:

- The project site is mainly a plain area. There will be no drilling and blasting during mining.
- The ultimate pit wall will be kept to 45^{o} and the slope angle of the inner benches will not be greater than 60^{o} to 65^{o} and bench height would be 9m.
- Slope will be stabilized with the help of *Chrysopogon zizanioides* grass to stabilize the slope

Flood Management Plan

- This is a soapstone mining project and the site is not close by to a water body so water bodies in the area will not be disturbed.

Natural resource conservation

- A green belt will be developed so that minimum soil erosion takes place.
- The excavated soil will be spread over the backfilled mined out area in order to minimize the impact on environment.
- In any case the natural habitats of the existing flora and fauna will not be disturbed.
- Use of traditional knowledge in all aspects of conservation shall be utilized.
- Water conservation techniques will be employed.
- Time to time analysis of the soil, water resources etc will be done in order to analyze the negative impacts of mining activities on the environment.
- To prepare management plans for village landscapes, villages to be seen as landscapes of diverse elements such as forests, scrub, grassland, streams/river, ponds etc. The dynamics of the village as an ecosystem to be assessed, corridors to be devised between major natural landscape elements, so as to facilitate movement of species.

7.2.6 Safety Measures

Safety Measures at the proposed Open Cast Mining Project

- The opencast mines have been planned for working with shovel tipper system which requires proper benching not only for slope stability but also for movement of tippers and other machinery. The inclination of the quarry sides at the final stage i.e. at the dip most point will not exceed 45^0 to the horizontal. (This angle is measured between the line joining the toe of the bottom most bench to the crest of the top most bench and the horizontal line);
- The gradient of the haul road inside the pit, access trench and on the dumps will not be steeper than 1 in 16;
- The slope of the sides of the OB and IB dump to the horizontal will not exceed 37^0, and the height of the OB and IB dumps has been restricted to a max of 12 m;
- The quarries will be protected by garland drains around the periphery for storm water drainage;
- A minimum safe distance of 50m will be kept between the surface edge of the quarry and the nearest public building, roads etc.

Measures Suggested to Avoid Accidents due to Blasting

- No drilling & blasting is proposed as mineral is very soft in nature.

Measures to Prevent the Danger of Overburden

- To prevent the failure of overburden slopes, especially during the rainy season, proper garland drain & bund are constructed around the dump.

Measures to Prevent Accidents due to Trucks and Tippers

- All transportation within the main working area should be carried out under the direct supervision and control of the management.
- The vehicles must be maintained in good repairs and checked thoroughly at least once a week by a competent person authorized for this purpose by the management;
- Broad signs should be provided at each and every turning point specially for the guidance of the drivers at night;
- To avoid dangers while reversing the trackless vehicles, especially at the embankment and tripping points, all areas for reversing of lorries should, as far as possible, be made man free, and there should be a light and sound device to indicate reversing of trucks; and
- A statutory provision of the fence, constant education, training etc. will go a long way in reducing the incidence of such accidents.

7.3 DISASTER MANAGEMENT PLAN

7.3.1 Objectives of Disaster Management Plan

The Disaster Management Plan is aimed to ensure safety of life, protection of environment, protection of installation and restoration of production. For effective implementation of the Disaster Management Plan, it should be widely circulated and personnel training should be given.
The objective of the Disaster Management Plan is to make use of the combined resources of the mine and the outside services to achieve the following:

- Effect the rescue and medical treatment of casualties;
- Safeguard other people;
- Minimize damage to property and the environment;
- Initially contain and ultimately bring the incident under control;
- Secure the safe rehabilitation of affected area; and

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.

Fire Fighting Facilities

Sufficient fire extinguishers will be installed at selected locations such as mine office, garage, stores etc.

Emergency Medical Facilities

An ambulance with driver availability in all the shifts, emergency shift vehicle would be ensured and maintained to transport injured or affected persons. Number of persons would be trained in first aid so that, in every shift first aid personnel would be available.

CHAPTER 8: PROJECT BENEFITS

8.1 IMPROVEMENT IN THE PHYSICAL INFRASTRUCTURE

The impact on the civic amenities will be substantial after the commencement of mining activities. The basic requirement of the community needs will be strengthened by extending health care, educational facilities developed in the township to the community, providing drinking water to the villages, building/strengthening of existing roads in the area. The proponent will initiate the above amenities either by providing or by improving the facilities in the area, which will help in uplifting the living standards of local communities.

Medical facilities will be provided in the form of first-aid facility at the mine. These medical facilities will also be available to local people in the surrounding in case of emergencies.

8.2 IMPROVEMENT IN THE SOCIAL INFRASTRUCTURE

- Generation of employment and improved standard of living;
- Increased revenue to the State by way of royalty, taxes and duties; and
- Superior communication and transport facilities etc.

In addition to above, due to increase in purchasing power of local habitants:

- There will be significant change in the socio-economic scenario of the area.
- The proposed project will enhance the prospects of employment. Recruitment for the unskilled and semiskilled workers for the proposed project will be from the nearby villages.
- The development of the basic amenities viz. roads, transportation, electricity, drinking water, proper sanitation, educational institutions, medical facilities, entertainment, etc. will be developed as far as possible.
- Overall the proposed project will change living standards of the people and improve the socio-economic conditions of the area.

8.3 EMPLOYMENT POTENTIAL

Future production planning does not indicate some change from present, in the employment. The number of unskilled labour may increase depending on the quantum of overburden removal and mineral excavation. The lessee has employed miners for raising ores & 59 Workers for removal of overburden, quarry cleaning & road repairing. The details of employment are given in Chapter-2.

The employment of local people in primary and secondary sectors of project will upgrade the prosperity of the region. These will in-turn improves the socio-economic conditions of the area. The total manpower required for the proposed mining project under various categories is 59 persons and persons will be mainly sourced from local as well as other community in and around mining project and few technical persons will be employed during operational phase from local and also from outside area. In addition to the above, contractual labour and indirect employment opportunities will also be getting benefited after installation of mining project.

8.4 POLICY AND ACTION PLAN ON SOCIAL RESPONSIBILITY

A detailed Community Social Responsibility plan has been prepared and the details of the report are given below.

8.4.1 CSR Project Details

Soapstone mine has proposed to provide financial assistance of Rs. 1.00 lakhs every year for the development of social infrastructure of the area.

Following measure will be taken to improve the Social infrastructure of the study area:

- Health Camps. (Rs. 25,000).
- Drinking Water Facilities. (Rs. 15,000).
- Maintenance of foot track (Rs. 25,000).
- Donation for Temple Construction. (Rs. 15,000).
- Donation for cultural activities in the surrounding areas (Rs. 20,000).

8.4.2 CER Project Details

In addition to the CSR, the provision of Rs.1.00 lakh every year (1% of the total project cost) has been proposed for the Corporate Environmental Responsibility (CER).

Following measure will be taken to improve the Social infrastructure of the study area:

- Sanitation facilities. (Rs. 25,000).
- Skill Development for villagers. (Rs. 20,000).
- Awareness to local farmers to increase yield of crop and fodder (Rs. 15,000).
- Plantation in the community areas/schools and on van panchayat land of nearby villages. (Rs. 40,000).

CHAPTER 9: ENVIRONMENT MANAGEMENT PLAN

9.1 INTRODUCTION

An EMP is prepared including all the administrative aspects of ensuring that mitigative measures are effectively monitored, after approval of the EIA. The final EIA/EMP of the proposed project will be submitted to SEAC, Uttarakhand, for obtaining environmental clearance for the project, in accordance with Environment Impact Assessment (EIA) Notification No. 1533 dt.14.09.2006. The approved Environment Management Plan will be implemented throughout the life of the project and half-yearly monitoring report showing the compliance status of conditions stipulated in Environmental Clearance letter will be submitted to MoEF&CC in every six months. An Environmental monitoring programme has been prepared for the proposed project for periodical assessment of effectiveness of implementation of Environment Management Planned to take corrective measures in case of any degradation in the surrounding environment.

To mitigate the adverse impact which will be caused due to the mining operation and overall scientific development of local habitat, environmental management plan (EMP) has been formulated and integrated with the mine planning. The details of the anticipated impacts and mitigative measures have been discussed in Chapter 4 of this report, based on the results of present environmental conditions and environmental impact assessment. The EMP has therefore been made considering implementation and monitoring of environmental protection measures during and after mining operations.

The aims of Environment Management Plan are:

- Overall conservation of environment.
- Minimization of waste generation and pollution.
- Sustainable use of natural resources and water.
- Safety, welfare and good health of the work force and populace.
- Ensure effective operation of all control measures.
- Vigilance against probable disasters and accidents.
- Monitoring of cumulative and longtime impacts.
- Ensure effective operation of all control measures.

9.2 IMPLEMENTATION OF EMP

As the major environment attributes will continue to be around the project area alone, implementation of the proposed control measures and monitoring thereof will be undertaken on a regional basis. The project proponent will ensure the implementation of the measures within the mine area and carryout efficient monitoring.

In order to implement the measures suggested for mitigating the adverse impacts on the environment, it is suggested to monitor the environmental parameters regularly.

9.3 ENVIRONMENTAL MONITORING

For assessing the prevailing quality of air, water, noise, soil etc., regular monitoring of parameters are necessary. The data assessed will be helpful in predicting the impact and planning suitable measures to improve/protect the environment. In the study area, the lessee will carry out monitoring studies for ambient air quality, fugitive dust, water quality, noise levels and soil quality as per the standard procedures and schedules. The monitoring system will includes:

- Monitoring stations in the buffer zone remain the same as selected in this study for Air, water, Soil, Noise etc.,
- Implementation of the planned mitigating measures.
- Monitoring the programme of implementation.

The Environmental parameters will be monitored & samples will be analyzed as per the stipulations of Indian Bureau of Mines & Uttarakhand Pollution Control Board and as per MoEF&CC Guidelines. The above monitoring proposals shall be adhered to and the results shall be intimated to the appropriate authorities for their perusal and records.

9.4 ORGANIZATIONAL SETUP FOR ENVIRONMENT MONITORING

Major attributes of environment are not confined to the mining site alone. Implementation of proposed control measures and monitoring program has an implication on the surrounding area as well as for the region. Therefore, mine management should strengthen the existing control measures as elaborated earlier in this report and monitor the efficacy of the control measures implemented within the mining area relating to the following specific areas for eco- friendly mining:

a) Collection of air and water samples at strategic locations with frequency suggested and by analyzing thereof. If the parameters exceed the permissible tolerance limits, corrective regulation measure will be taken.
b) Collection of soil samples at strategic locations once in every year and analysis thereof with regard to deleterious constituents, if any.
c) Measurement of water level fluctuations in the nearby surface resources and bore wells.
d) Measurement of noise levels at mine site, stationary and mobile sources, and adjacent villages will be done in every quarter of the year.
e) Monitoring Ground Vibrations: Ground vibrations studies or monitoring is not required as there is no proposal of drilling/blasting for scooping operations.

9.4.1 Environment Management Cell

No cell is proposed to form; the plan will be implemented through outsourcing suitable and accredited consultants and experts.
Environmental Monitoring will be directly coordinated by the Supervisor/Owner.

Competent outsourced certified organization/lab personnel will conduct the monitoring operations. A full-fledged laboratory is not essential; part of the work will be given to competent consultants to undertake these jobs.
Regular semi-skilled manpower will be required for supervision, assistance in reclamation works followed by trained unskilled laborers to carry out other necessary operations.

9.4.1.1 Functions of the Cell

- Implementation of the mitigation measures.
- Maintain Records of the operation.
- Monitoring the programme of implementation.
- To estimate the efficiency of measures taken.
- To bring out any other unforeseen effect on environment not covered under the report.
- Inspection and regular maintenance of mining equipments and transport vehicles.

9.5 AIR QUALITY MANAGEMENT

Talc is a hydrous magnesium silicate. In trade, talc often includes: (i) the mineral talc in the form of flakes and fibres; (ii) steatite, the massive compact cryptocrystalline variety of high-grade talc; and (iii) soapstone, the massive talcose rock containing variable talc (usually 50%), soft and soapy to feel. Commercial talc may contain other minerals like quartz, calcite, dolomite, magnesite, serpentine, chlorite, tremolite and anthophyllite as impurities. The properties that give talc a wide variety of uses and markets are its extreme softness and smoothness, good luster and sheen, high slip and lubricating property, low moisture content, ability to absorb oil and grease, chemical inertness, high fusion point, low electrical and heat conductivity, high dielectric strength, good retention for filler purposes, whiteness, good hiding power as pigment and high specific heat.

9.5.1 Control of Fugitive Emissions

- Use of Personal Protection Equipments (PPE) like dust masks, ear plugs etc. by the mine workers.
- Regular water sprinkling on haul roads & loading points will be carried out.
- Development of green belt/plantation around the lease boundary, roads, dumps etc.
- Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.

9.5.2 Prevention and control of Gaseous Pollution

Open cast manual method will be adopted in this case and there is no provision for blasting. The main source of gaseous emissions would be transportation.
Only 100 tonnes of soapstone will be produced per day and the transportation will be done with covered materials to prevent any spillage and also prevent fugitive dust emission due to wind. Any gaseous emission transportation will be negligible and not impact the ambient quality. Exhaust emission will be monitored of the trucks and to be kept below the permissible limit.

Proper maintenance of machines improves combustion process & makes reduction in the pollution. Good maintenance and monitoring of fuel and oil will not allow significant addition in the gaseous emission.

9.6 NOISE POLLUTION CONTROL

9.6.1 Noise Abatement and Control

- Proper maintenance, oiling and greasing of machines at regular intervals will be done to reduce the generation of noise.
- Adequate silencers will be provided in all the diesel engines.
- Plantation along the sides of approach roads and mine area will be done to minimize the propagation of noise.
- Personal Protective Equipment's (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone.
- Periodical noise level monitoring will be done.

9.7 WATER QUALITY MANAGEMENT

Water for drinking and operations is required to be 10 KLD. The water shall be extracted from the nearby surface water resources or natural springs.

Measures for Minimizing Adverse Impacts

Seasonal drainage exists near to the project site. The mining is being carried out in hilly region. The problem of ground water pumping will not arise. Rain water will not accumulate in the mining pit & it will be channelized along the slopes. The mining work will usually be confined within gullet driven from north-south & a ledge of about one meter height will be kept on the outer edge so that in discrete water flow will be avoided. The interburden and top soil will be used in backfilling. Further no significant impact on water quality is anticipated as material exposed will be low grade magnesite & is very feebly react with water that too when water becomes acidic. Even of reaction takes place it gives arise to increased temporary hardness of water. Water is being supplied from the spring. No hydrological studies have been carried out in the area.

Surface Water

There is a possibility of mixing of freshly disturbed material with the rain water. To take care of such happenings, retaining walls have been provided along the backfilled pits and along the soil and interburden dumps. Monitoring of water will be carried out periodically. Water analysis will be carried out seasonally.

Ground Water Pollution

The domestic sewage from the canteen and toilets will be routed to septic tanks. Regular monitoring of water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring

the water levels and quality around the mine representing both upstream and downstream conditions.

Impact on land use & reclamation of mined out areas

Opencast mining activities may alter the landscape of the lease area and also cause some disturbance to the surface features of the surrounding areas. Mining will be done after leaving 7.5 m safety barrier. Plantation will be developed in consultation with district administration/ local authority, wherever feasible. The Existing land use pattern is agricultural land.

The impact on land form or physiography will be land use on the hilly terrain will undergo radical changes due to the open cast mining. During the next five years mining, 1.829 ha land will be degraded due to mining & allied activities.

All the quantities of top soil & interburden material to be generated by the end of plan/conceptual period shall be used for the purpose of reclamation over the mined unit land. Therefore no proposal for separate stacking of top soil and interburden dump has been proposed.

9.8 WASTE MANAGEMENT

Solid waste generation and management Disposal of Waste:

The top soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and stacked separately. The soil intermixed with fragments and interburden rejects are low grade magnesite. Part of these rejects will be utilized in construction and maintenance of retaining walls, parapet walls, check dams and other construction works. About 1265 cum of rejects will be used for this task, and in dump yard remaining rejects about 121335.82 cum will be backfilled.

Mitigation measures

Access roads from public roads will be aligned in such a way that it would cause least damage.

The banks cut for ramp will also be restored at the closing of mine during monsoon. Vegetation development is proposed along the lease area as restoration work.

Plantation is proposed along the road sides, civic amenities in consultation with local/ govt. authorities. While selecting the plant species, preference will be given for planting native species of the area.

Storage and preservation of top soil:

The soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and loaded manually to stack on the dump yard. Stacking will commence at RL 1215m to RL 1221m in first & second year, RL 1140m to RL 1143m in third year, RL 1119m to RL 1122m in fourth & RL1125m to RL RL 1128m in fifth year. The spread of stacks will be undertaken through mechanically and manually both & average dump height kept 1.5m. In first year 146 m^2 areas was earmarked for stacking of soil with 1.5m height. In second area it is 147

m^2 areas. Similarly in third, fourth & in fifth year 146 m^2, 145 m^2 and 146 m^2 area have been respectively earmarked for stacking of soil with 1.5m average height.

Proposal for reclamation of land affected by mining activities:

The mining will commence from the higher levels and will advance towards lower levels. Intermittent backfilling will commence from the higher levels and subsequently advance towards the lower elevation so that terraced agriculture fields would undertake in such a manner that original land use will be restored i.e. before the onset of monsoon will be handed over to cultivators for cultivation. The final backfilling will be started once the ultimate benches are formed and pit reaches the optimum economic depth. All recovery of the mineral will be of the saleable grade.

9.9 GREENBELT AND PLANTATION

Plantation will be raised at a spacing of 7.5m along the boundaries of the mining lease by planting the native species around ML area, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO/Agriculture department. The year wise plantation of trees has been shown in **Table 9.1**.

Table 9.1: Year wise afforestation scheduled

Year	Plantation in between lease boundary and UPL	
	Area (ha.)	No. of saplings
2020-21	0.043	43
2021-22	0.065	65
2022-23	0.177	177
2023-24	0.135	135
2024-25	0.039	39
Total	**0.459**	**459**

*****Besides these 5000 nos. of more samplings will be done all along the periphery of the mine lease area and in the nearby van panchayat land in Karuli, Hirmoli and Simtola villages. Total no. of trees shall be planted in the first two years and in the next three years its maintenance will take place. Local native species like Peach (Khubani), Pears (Nashpati), Apricot (Aaru), Plumk, Mehal, Kaphal, Chilmora etc. shall be planted.

The following characteristics should be taken into consideration while selecting plant species for green belt development and tree plantation.

- They should be fast growing and tall trees.
- They should be perennial and evergreen.
- They should have thick canopy cover.
- Plantation should be done in appropriate alternate rows around the proposed site to prevent lateral pollution dispersion.

- The trees should maintain regional ecological balance and conform to soil and hydrological conditions. Indigenous species should be preferred.

9.10 BIOLOGICAL MANAGEMENT MEASURES

There is a requirement to establish a stable ecosystem with both ecological and economic returns. Minimization of soil erosion and dust pollution enhances the beauty of the core and the buffer zone. To achieve this, it is planned to increase plantation activities. The basic objectives of plantation are as follows:-

- Improvement of Soil quality.
- Quick vegetative cover to check soil erosion.
- Improvement in mining site stability.
- Conservation of biological diversity.
- As dust receptor which likely to produce during mining.

9.10.1 Greenbelt Development Plan

Green belt is plantation of trees for reducing the pollution as they absorb both gaseous and particulate pollutant, thus removing them from atmosphere. Green plants form a surface capable of absorbing air pollutants and forming sinks for pollutants. It improves the aesthetic value of local environment. Under present project, green belts have been planned with emphasis on creating biodiversity; enhance natural surroundings and mitigating pollution. The greenbelt development plan aims to overall improvement in the environmental conditions of the region. The plan with a five-fold objective addresses issues such as providing sink for air pollutants likely to emitted from the project; enhancing the forest cover for increasing the biodiversity of the region; providing aesthetic value to the project area enhancing the ecological equilibrium of the area; and to a large proportion in combating soil erosion.

- Afforestation on degraded forest area, forest protection / conservation will be carried out every year by the mine owner.
- This activity will promote the emergence of the primary succession species; hence it will be a silvicultural operation, extremely important for maintaining ecology and environmental health of the area.
- This helps in regeneration & establishment of pioneer plant species saving expose land & land cutting.

These plantations will be carried out around mining zone and both sides of the mine road. About twice the area recommended for mining will be used for afforestation/greenbelt as per the “Forest (Conservation) Amendment Rule, 2004”.

The scheme of plantation around the project site is given as follows:
Afforestation will be put under a protective regulatory framework to ensure that it is not degraded or disturbed. No ecologically disruptive activity will be allowed in this zone.

The suggestive measures under EMP are given in **Table 9.2.**

Table 9.2: Key suggestive measures under EMP

Impact Predicted	Suggestive measure
Disturbance of free movement / living of wild fauna	• Awareness camps will be conducted for labours to make them aware about sensitivity/importance of forest life. • No tract or new road for movement of labours or vehicles be laid in reserve forest area, this will prevent forest fragmentation, encroachment and human – animal encounter. • Care will be taken that noise produced during vehicles movement for carrying ore materials are within the permissible noise level. Higher noise level in the forest area will lead to restless and failure in detection of calls of mates and young ones. • Care will be taken that no hunting of animals carried out by labours. • If wild animals are noticed crossing the core zone, it will not be disturbed at all. • Labours will not be allowed to discards food, plastic etc., which can attract animals near the core site. • Only low polluting vehicle will be allowed for carrying ore materials. All vehicles allowed in the project site area will have to provide pollution under control certificate at the end of three months. • No honk will be allowed in the forest area, noise level will be within permissible limit (silent zone-50dB during day time) as per noise pollution (regulation and control), rules, 2000, CPCB norms.
Harvesting of forest flora	• No tree cutting, chopping, lumbering, uprooting of shrubs and herbs should be allowed. • No pilling of ore material should in the reserve forest area. • Collections of economically important plants will be fully restricted.

9.11 OCCUPATIONAL HAZARDS AND SAFETY

Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health in proposed Soapstone Mining Project are mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations.

To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced:

- Provision of rest shelters for mine workers with amenities like drinking water etc.
- All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.
- Training of employees for use of safety appliances and first aid in vocational training center.
- Regular maintenance and testing of all equipment as per manufacturers' guidelines.
- Periodical Medical Examination (PME) of all workers by a medical Officer
- First Aid facility is provided at the mine site.
- Close surveillance of the factors in working environment and work practices which may affect environment and worker's health.
- Working of mine as per approved mining plan and environmental plans.

9.12 ENVIRONMENTAL POLICY

The Owner of proposed Soapstone Mine believes that responsible environmental stewardship comprises diligent application of well-established natural resource management, controls and practices for the protection, reclamation of the mined out land, preservation of biodiversity and proper disposal of waste following the best environmental practices during the process of mining of soapstone.

Environmental policy prescribed for standard operating process to bring into focus any violation/deviation of the environment and forest norms/conditions that the company operations will implement operational and risk management practices that provide for maximum protection of people and the environment. To this end, the owner resolves that company will follow the below mentioned practices:

Operate in accordance with prescribed industry standards while complying with all applicable environmental, health and safety laws and regulations.

- Establish and maintain a well-defined environmental, health and safety management system to guide its operations.
- Ensure that all employees, officers and directors understand and adhere to its environmental, health and safety management program.
- Provide operations with the necessary resources, expertise and training to effectively carry out its EHS management programs.
- Engage employees at all levels in programs directed towards minimizing adverse effects on the environment resulting from mining activity.
- Work proactively with governments and the public in the development of cost effective and realistic regulations that promote enhanced environmental, health and safety protection.
- Promote environmental awareness among its employees, their families and the communities in which it operates.

- Require those who provide services and products to practice good environmental stewardship.
- Mitigate its environmental impacts through efficient use of resources, and the reduction of input materials and waste.
- Maintain a high degree of emergency preparedness.

9.13 BUDGET ALLOCATION FOR EMP IMPLEMENTATION

It is necessary to include the environmental cost as a part of the budgetary cost component. The project authorities propose to undertake the following environmental works to achieve the environmental quality as desired. The budget for EMP implementation has been shown in **Table 9.3.**

Table 9.3: Budget for Environmental Management Plan

S. No.	Measures	Cost (In Rs.)
1.	Water Sprinkling for dust suppression	50,000
2.	Environmental Monitoring : (i) Ambient Air Quality Monitoring (ii) Ambient Noise Monitoring (iii) Water Quality Sampling & Analysis (iv) Soil Quality Sampling & Analysis	1,00,000
3.	Plantation of 5459 trees along with their maintenance for green belt	5,45,900
4.	Cost for Retaining wall/Toe wall	1,00,000
Total		**7,95,900**

9.14 CORPORATE ENVIRONMENTAL RESPONSIBILITY (CER)

The cost towards Corporate Environmental Responsibility (CER) has been shown in **Table 9.4.**

Table 9.4: Budget for Corporate Environmental Responsibility (CER) (per year)

S. No.	Measures	Cost (In Rs.) (per year)
1.	Sanitation facilities	25,000
2.	Skill Development for villagers	20,000
3.	Awareness to local farmers to increase yield of crop and fodder	15,000
4.	Plantation in the community areas/schools and on van panchayat land of nearby villages	40,000
Total		**1,00,000**

9.15 CONCLUSION

As discussed, it is safe to say that the project is not likely to cause any significant impact on the ecology of the area, as adequate preventive measures will be adopted to contain the various pollutants within permissible limits. Green belt development around the area will also be taken up as an effective pollution mitigative technique, as well as to control the pollutants released from the premises of the proposed Soapstone Mine.

CHAPTER 10: SUMMARY AND CONCLUSIONS

10.0 INTRODUCTION

10.1 PURPOSE OF THE REPORT

M/s Star mines and minerals proposes the Soapstone Mine extending over an area of 7.841 ha [24000 TPA (maximum) of Soapstone] in Village-Karuli, Tehsil & District-Bageshwar, Uttarakhand. The proposal for TOR was considered in its meeting dated 03rd June 2021 and since the project is greater than 5 ha and it comes under category B1 therefore comprehensive EIA report shall be prepared. The draft Environmental Impact Assessment report has been prepared to comply with the standard Terms of Reference (ToR), under EIA notification of the MoEF&CC dated 14th September, 2006 and amended thereof, for seeking environmental clearance for mining of soapstone in the applied mining lease area.

10.2 IDENTIFICATION OF PROJECT & PROJECT PROPONENT

10.2.1 Identification of Project

The Proposed Soapstone mine is executed over an area of 7.841 ha in Village-Karuli, Tehsil, District-Bageshwar, Uttarakhand. The maximum production rate is of 24,000 TPA of soapstone production.

The cost of the project is Rs.20 lakhs.

10.2.2 Project Proponent

M/s Star mines and minerals is a private company. The proposed Soapstone Mine extends over an area of 7.841 Ha (24,000 TPA (maximum) of Soapstone) in Village- Karuli, Tehsil & District - Bageshwar, Uttarakhand. The LOI of proposed Soapstone Mine was granted in favour of M/s Star mines and minerals for period of 50 years by the Govt. of Uttarakhand. The proposed rate of production is 24,000 TPA (maximum) of soapstone. The estimated project cost is Rs 20 lakhs. The expected life of mine is 50 years.

Address of the applicant

M/s Janki Rathor (Partner)
House 346/3, kalawati Colony, Haldani
Disst- Nainital, Uttarakhand - 263139

10.3 BRIEF DESCRIPTION OF PROJECT

10.3.1 Nature of the Project

The proposed Soapstone Mine, project will adopt opencast manual cum semi mechanized method. The mine is executed over a lease area of about 7.841 ha, for the production of 24,000 TPA of soapstone.
Therefore as per the EIA Notification dated 15th January, 2016 and 1st July, 2016, the project comes under “B1” Category since the area is greater than 5 ha.

10.3.2 Size of the Project

The proposed Soapstone mining project extends over an area of 7.841 ha with the target maximum production capacity of mine is about 24,000 TPA (maximum) of Soapstone.

10.3.3 Anticipated Life of Project and Cost of the Project

The projected life of the mine is 50 years. The cost of the project is about Rs. 40 lakhs.

10.3.4 Location of the Project

The proposed Soapstone Mine lease comes under Village-Kabhata Tehsil- Kanda, District-Bageshwar, Uttarakhand. Geo-graphically the ML area extends from North Latitude 29° 49' 07.95" N to 29° 49' 23.26"N and East Longitude 79° 55' 25.16" E to 79° 55' 59.99" E with an elevation of about 1187 m reduced level (RL). The area falls in Survey of India topo sheet No. 53 O/13.

10.4 PROJECT DESCRIPTION

10.4.1 Salient Features of Mine Lease

The salient features of mine lease are given in **Table 10.1** below:

Table 10.1: Salient Features of mine lease area

Sr. No.	Parameter	Description
1	Name of the Mine	Proposed Karuli Soapstone Mine (Area: 7.841 ha.) at Village Karuli, Tehsil & District:
2	Mining Capacity	24,000 (maximum) TPA of Soapstone
3	Longitude Latitude	29°52'2.98" N to 29°52'15.41"N 79°49'39.48"E to 79°49'45.82"E
4	Method of mining	Opencast semi mechanized method
5	Total ML area	7.841
6	Extent of mechanization	Excavator shall be deployed for extraction of top soil, interburden and mineral. No drilling and blasting will be done.
7	Bench height & width	3m
8	Bench Slope	60^{o} to 65^{o}
9	Slope of track	1:8 to 1:20
10	Transportation of Material	The mineral will be supplied in the local market by trucks/tippers.
11	Manpower	59 persons
12	Water Requirement	10 KLD
13	Source of Water	Village Panchayat
14	Greenbelt development / Plantation (Mine life end)	0.459 ha
15.	No. of saplings proposed in the next 5 years	5459

10.4.2 Mine Development and Production

The mining will be done semi-mechanized way in open cast method in quite a systematic manner by forming 6m high benches. However, there may be minor variation in the width and-height which the lessee will keep on mending. The top soil and interburden to be scrapped with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and will be stacked separately in dump yard located near the working pit. The developmental working will be done by construction of road/track to different working benches, removal of top soil and interburden. The soil will be filled into the bags, loaded on mules and unload into stockyard.

Year wise Production details are given in **Table 10.2** below.

Table 10.2: Year wise Production of Soapstone Mine

Years	Saleable soapstone (Tonnes)
1st	**20000**
2nd	24000
3rd	24000
4th	23000
5th	23000
Total	**114000**

The quantity of soil, interburden from pit to be generated during next five years is given in **Table 10.3** below:

Table 10.3: Quantity of Top Soil and interburden of Soapstone Mine

Year	Top Soil (cum)	Interburden (cum)	Mineral Rejects (cum)
I	3789.2	21618.94	25408.14
II	4379.08	25913.76	30292.84
III	5291.74	26294.31	31586.05
IV	3394.52	24454.03	27848.55
V	3020.88	24319.78	27340.66
Total	19875.42	122600.82	142476.24

10.4.3 Method of Mining

The mining shall be carried out in two pits and will be done semi-mechanized way in open cast method in quite a systematic manner by forming upto 9m high benches with1.5m to 3.0m sub-benches. All the top soil, overburden & interburden shall be removed by the means of excavators. The slope of the faces will be kept 60°-70° and the ultimate slope of the pit will remain 45°. Mining shall be carried out from higher level & subsequently advance to upper levels.

10.5 IMPACT ON LAND USE, RECLAMATION OF MINED OUT AREAS AND AFFORESTATION PROGRAMME

Impact on land use & reclamation of mined out areas

Opencast mining activities may alter the landscape of the lease area and also cause some disturbance to the surface features of the surrounding areas. Mining will be done after leaving 7.5 m safety barrier.

Plantation will be developed in consultation with district administration/ local authority, wherever feasible.

The Existing land use pattern is agricultural land. The impact on land form or physiography will be land use on the hilly terrain will undergo radical changes due to the open cast mining. During the next five years mining, 2.240 ha land will be degraded due to mining & allied activities.

Proposal for reclamation of land affected by mining activities:

The mining will commence from the higher levels and will advance towards lower levels. Intermittent backfilling will commence from the higher levels and subsequently advance towards the lower elevation so that terraced agriculture fields would undertake in such a manner that original land use will be restored i.e. before the onset of monsoon will be handed over to cultivators for cultivation. The final backfilling will be started once the ultimate benches are formed and pit reaches the optimum economic depth. All recovery of the mineral will be of the saleable grade.

Plantation will be raised in 7.5m barrier zone along the boundaries of the mining lease area by planting the native species around ML area, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO/Agriculture department. The details of the year wise plantation have been shown in **Table 10.4**.

Table 10.4: Year wise Afforestation scheduled

Year	Area	No. of Plants as per mine plan
I	0.043	43
II	0.065	65
III	0.177	177
IV	0.135	135
V	0.039	39
Total	**0.459**	**459***

***Besides these 5000 nos. of more samplings will be done all along the periphery of the mine lease area and in the nearby van panchayat land in Karuli, Hirmoli and Simtola villages. Total no. of trees shall be planted in the first two years and in the next three years its maintenance will take place. Local native species like Peach (Khubani), Pears (Nashpati), Apricot (Aaru), Plumk, Mehal, Kaphal, Chilmora etc. shall be planted.**

10.6 LAND USE PATTERN

Presently (pre-mining), the land covered under the mine lease area is non-forest agricultural land.

10.7 BASELINE ENVIRONMENTAL STATUS

10.7.1 Soil Quality

Five soil samples were collected in and around the mine lease area to assess the present soil quality of the region. In the study area, variations in the pH of the soil were found to be slightly basic (7.32 to 7.65). Electrical conductivity (EC) is a measure of the soluble salts and ionic activity in the soil. In the collected soil samples the conductivity ranged from 250.65 – 290.17µmhos/cm.

Based on the results, it is evident that the soils are not contaminated by any polluting sources.

10.7.2 Meteorology

Meteorological data at the site was monitored during December 2020 to February 2021 representing winter season.

10.7.3 Ambient Air Quality

Ambient Air Quality Monitoring (AAQM) has been carried out at five locations during pre-monsoon season from dec 2020 to feb 2021 The minimum and maximum level of PM10 recorded within the study area was in the range of 34.5 µg/m^3 to 68.5 µg/m^3 µg/m3 with the 98th percentile ranging between 52.5 µg/m^3 to 68.4 µg/m^3. The minimum and maximum level of PM2.5 recorded within the study area was in the range of 12.4 µg/m^3 to 30.7µg/m3 with the 98th percentile ranging between 23.2 µg/m^3 to 30.5 µg/m3. The minimum and maximum concentration of SO2 recorded within the study area was 5.0 to 8.9 µg/m3 with the 98th percentile ranging between 5.7 µg/m^3 to 8.7 µg/m3. The minimum and maximum level of NO2 recorded within the study area was in the range of was 7.3 µg/m^3 to 16.3 µg/m3 with the 98th percentile ranging between 13.2 µg/m^3 to 15.7 µg/m3. The results thus obtained indicate that the concentrations of PM10, PM2.5, SO2 and NO2 in the Ambient Air are well within the National Ambient Air Quality (NAAQ) standards for Industrial, Residential, Rural and other areas.

10.7.4 Water Quality

To assess the physical and chemical properties of water in the region, water samples from 8 locations were collected from various water sources around the mine lease area.

The pH was varying for ground water from 7.32 to 7.86 and the surface water are 7.26 to 7.4. The total dissolved solids in ground water are varying from 198.6 mg/l to 413.34 mg/l whereas in surface water varying from 175.36 mg/l to 186.98 mg/l. The chloride level in the ground water samples collected in the study area were ranging from 48 mg/l to a maximum of 12.6 mg/l, in surface water samples 16.3 mg/l to 17.2 mg/l. The hardness is varying from the hardness is varying from 182.44 mg/l to 288.2 mg/l, in surface water samples 185.18 mg/l to 188.11 mg/l.

The results indicate groundwater is generally in conformity with the drinking water standards (IS: 10500) and surface water is in conformity with IS-2296 standards.

10.7.5 Noise Levels

The values of noise observed in some of the areas are primarily owing to vehicular traffic and other anthropogenic activities. Assessment of average logarithm night time Leq (Ln) varies from 38.2 to 65.2 db and the average logarithm daytime Leq (Ld) varies from 48.7 to 70.5 dB in the study area.

Ambient noise levels were measured at Five locations around the proposed mine site. Assessment of average logarithm night time Leq (Ln) varies (A) within the study area.

10.7.6 Ecological Environment

Based on the field studies and review of published literature, it is observed that there are two Schedule-I species present in the study area of the mine lease area i.e. Indian Leopard and Asiatic Black Bear. There are no wildlife sanctuaries and National Parks within the study area of 10-km radius. However, the nearest RF from the mine lease is Karuli Reserve Forest at a distance of 500m .

10.7.7 Social Environment

According to the 2011 census of India, Bageshwar has a population of 2,59,898. The total SC population in Bageshwar district is 72,061 which is 27.72% of the total population, while ST population is 1982, which is 0.76% of the total population. The literate population in Bageshwar district is 1,79,483, out of which male & female are 97,546 and 81,937 respectively. The male literates represent 54.35% while female represent 45.65% of the total population.

10.8 ANTICIPATED ENVIRONMENTAL IMPACTS

10.8.1 Impact on Air Quality

Soapstone mine where PM_{10} and $PM_{2.5}$ will be the main pollutants generated in mining activities. The emissions of Sulphur dioxide (SO_2), Nitrogen Oxide (NO_2) contributed by diesel operated equipment and vehicles movement were considered marginal as branded make and vehicles with PUC certificate will be operated only. Fugitive dust and particulates are major pollutants occurred in the mining activities. Fugitive emissions will be settled by 70- 80% by use of multiple water sprinklers. Prediction of impacts on air environment will be made with proposed production and net increase in PM_{10} and $PM_{2.5}$ emissions at the proposed site and at the 10 km radius of study area due to mining activities.

Air pollution sources in the operating mine was classified into two categories

i. Loading and unloading of mineral and OB, IB

ii. Transportation on the haul road

10.8.2 Impact on Water Resources

Surface Water Resources

The topography of the area will not be largely changed in view of the proposed concurrent reclamation. During the mining activity period, there is a possibility of mixing of freshly disturbed material with the rain water. To take care of such happenings, retaining walls have been provided along the backfilled pits and along the soil and interburden dumps.

Groundwater Resources

The water table in hills is usually very deep and does not have any relevance with mining activities. However, concurrent restoration to original topography will not be disturbing the percolating water.

10.8.3 Impact on Water Quality

The impact on water quality will be confined to increased suspended solids during rain. The dumps will be secured with toe walls and rainy water will not carry significant suspended material.

10.8.4 Impact on Noise Levels and Ground Vibrations

With the mining operations, due to the deployment of machinery, operation for mine development, excavation and transportation of soapstone and men, it is imperative that noise levels would increase. Assessment of average logarithm night time Leq (Ln) varies from 35.4 to 46.2 dB (A) and the average logarithm daytime Leq (Ld) varies from 41.7 to 51.3 dB (A) within the study area. It is also observed that these incremental noise levels will not significantly affect the existing ambient noise levels.

10.8.5 Impact on Soil

The environmental impacts of the mining activities on topsoil are based on the quantity of removal of topsoil and its dumping. In the present project as it is proposed to temporarily store the topsoil and use it for plantation schemes, no impact of dozing of topsoil is envisaged.

The soil erosion from overburden and interburden dumps is not envisaged in the present project, as sufficient measures as detailed in the EMP would be undertaken.

10.8.6 Impact on Flora and Fauna

There is no forest area in the core zone area of the lease. As the mining activity is restricted to core zone, no significant impact on the flora of the buffer zone due to the proposed mining of Soapstone is anticipated.

It is proposed to include *Alternanthera paronychioides, Cassia tora* and *Holoptelea integrifolia* in the plantation program as they serve as sinks for gaseous emissions. Extensive plantation comprising of pollutant resistant trees will be undertaken, which will serve not only as pollution sink but also as a noise barrier.

The incremental dust generations due to the mining operations, at the boundary of the mine lease are insignificant and it is also expected that with the adoption of mitigatory measures as suggested in EMP, the impact due to operation of the mine will be minimal on the terrestrial ecosystem and also on the adjacent forest area.

The impact on the fauna of the buffer zone due to the mining activity will be marginal. The proposed progressive plantation over a period of time will reduce the impact, if any, on the fauna.

10.8.7 Impact on Land Use Pattern

The proposed opencast mine will result in change the land use pattern of the ML area. The land degradation is expected during mining activities like excavation, overburden dumping, soil extraction etc. Land requirement for the project has been assessed considering functional needs.

10.8.8 Impact on Socio - Economic Aspects

The mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement. No public buildings, places, monuments etc exist within the lease area or in the vicinity. The mining operation will not disturb/ relocate any village or need resettlement. Thus no adverse impact is anticipated.

The impact of mining activity in the area is positive on the socio-economic environment of the region. The proposed Soapstone Mine will be providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.

10.9 ENVIRONMENTAL MANAGEMENT PLAN

The summary of environmental mitigation measures are given in **Table-10.5**.

Table-10.5: Proposed Environmental Mitigation Measures

Impact Predicted	Suggestive measure
Disturbance of free movement / living of wild fauna	• Awareness camps will be conducted for labours to make them aware about sensitivity/importance of forest life. • No tract or new road for movement of labours or vehicles be laid in reserve forest area, this will prevent forest fragmentation, encroachment and human – animal encounter. • Care will be taken that noise produced during vehicles movement for carrying ore materials are within the permissible noise level. Higher noise level in the forest area will lead to restless and failure in detection of calls of mates and young ones.

	• Care will be taken that no hunting of animals carried out by labours. • If wild animals are noticed crossing the core zone, it will not be disturbed at all. • Labours will not be allowed to discards food, plastic etc., which can attract animals near the core site. • Only low polluting vehicle will be allowed for carrying ore materials. All vehicles allowed in the project site area will have to provide pollution under control certificate at the end of three months. • No honk will be allowed in the forest area, noise level will be within permissible limit (silent zone-50dB during day time) as per noise pollution (regulation and control), rules, 2000, CPCB norms.
Harvesting of forest flora	• No tree cutting, chopping, lumbering, uprooting of shrubs and herbs should be allowed. • No pilling of ore material should in the reserve forest area. • Collections of economically important plants will be fully restricted.

10.10 ANALYSIS OF ALTERNATIVES

The Soapstone has been identified based on the result of geological investigations and exploration carried out by the Geological Survey of India (GSI). The mining projects are site specific as such alternate sites were not considered.

The mine is operated by opencast cum semi-mechanized method of mining. No other alternative technologies can be used because of the hard nature of the ore. Proposed mine is using eco-friendly measures to minimize the impact of mining on the surrounding environment.

10.11 COST ESTIMATES

The details of the cost to for the Environmental Management plan for 5 years, the budget for Corporate Environmental Responsibility (CER) (per year) and year wise allocation of funds for the various activities proposed to be taken up under CSR programme has been given in **Table 10.6**, **Table 10.7** and **Table 10.8** respectively**.**

Table-10.6: Budget for Environmental Management Plan

S. No.	Measures	Cost (In Rs.)
1.	Water Sprinkling for dust suppression	50,000
2.	Environmental Monitoring : (i) Ambient Air Quality Monitoring (ii) Ambient Noise Monitoring (iii) Water Quality Sampling & Analysis (iv) Soil Quality Sampling & Analysis	1,00,000
3.	Plantation of 5459 trees along with their maintenance for green belt	5,45,900
4.	Cost for Retaining wall/Toe wall	1,00,000
Total		**7,95,900**

Table 10.7: Budget for Corporate Environmental Responsibility (CER) (per year)

S. No.	Measures	Cost (In Rs.) (per year)
1.	Sanitation facilities	50,000
2.	Skill Development for villagers	30,000
3.	Awareness to local farmers to increase yield of crop and fodder	40,000
4.	Plantation in the community areas/schools and van panchayat land of nearby villages	50,000
Total		**1,70,000**

Table 10.8: Year wise allocation of funds for the various activities proposed to be taken up under CSR programme

S. No.	Activities	Allocation of Fund (Rs.)
1	Health Camps	25,000
2	Drinking Water Facilities	15,000
3	Maintenance of foot track	25,000
4	Donation for Temple Construction	15,000
5	Donation for cultural activities in the surrounding areas	20,000
Total		**1,00,000**

10.12 ADDITIONAL STUDIES

10.12.1 Risk Assessment and Disaster Management Plan

The complete mining operation will be carried out under the management control and direction of a qualified mine manager holding Mines Manager's Certificate of Competency. Moreover, mining staff will be sent to refresher courses from time to time to keep them updated.

10.12.2 Disaster Management Plan

Emergency preparedness is an important aspect in the planning of Disaster Management. Personnel would be trained suitably and prepared mentally and physically in emergency response through carefully planned, simulated procedures. Similarly, the key personnel and essential personnel shall be trained in the operations.

10.13 PUBLIC CONSULTATION

10.13.1 Public Hearing

In consonance with the EIA notification dated 14th September 2006, vide section 1 (a) related to Public Hearing, the draft EIA/EMP report shall be submitted to the Uttarakhand Environment Protection & Pollution Control Board (UEPPCB) for public hearing

10.14 PROJECT BENEFITS

The impact on the civic amenities will be substantial after the commencement of mining activities. Medical facilities will be provided in the form of first-aid facility at the mine. These medical facilities will also be available to local people in the surrounding in case of emergencies.

- Generation of employment and improved standard of living;
- Increased revenue to the State by way of royalty, taxes and duties; and
- Superior communication and transport facilities etc.
  The employment of local people in primary and secondary sectors of project will upgrade the prosperity of the region.

10.15 CONCLUSIONS

- The mining operations will meet the compliance requirements of MoEF&CC;
- Community impacts will be beneficial, as the project will generate significant economic benefits for the region;
- Adoption of Best Available Technology and Best Management Practices with more environmental friendly process; and
- With the effective implementation of the Environment Management Plan (EMP) during the mining activities, the proposed project can proceed without any significant negative impact on environment.

Chapter 11: DISCLOSURE OF CONSULTANT ENGAGED

Declaration by Experts contributing to the EIA: Mining of Soapstone from Lease Area (7.841 Ha.) at Village- Karuli, Tehsil & District - Bageshwar, Uttarakhand. I, Sanjeev Sharma hereby certify that I was a part of the EIA team in the following capacity that developed the above EIA.

EIA coordinator

Name: Vijay Sharma

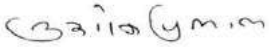
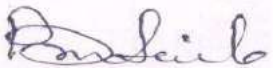
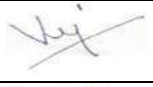
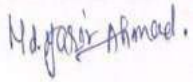
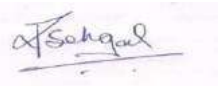
Signature and Date:

02-07-2021

Period of Involvement: December 2020 to Till date

Contact Information: vijaysharmav07@gmail.com

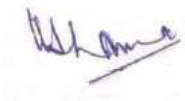
Functional area experts:

S. No.	Functional Areas	Name of the experts	Signature
1.	EIA Coordinator and FAE in AQ, NV and SHW	Sanjeev Sharma	
2.	WP and RH	Anoop Kishore Misra	
3.	SC	ML Sharma	
4.	SE	Ashok Suyal	
5.	EB	Kashmir Singh Pal	
6.	HG	Mr. RK Mishra	
7.	GEO	B. M. Sinha	
8.	AP	Vijay Sharma	
9.	LU	Yasir Ahmed	
10.	Noise and Team Member	Rishabh Sehgal	

Declaration of association in the EIA

Declaration by the Head of the accredited consultant organization/ authorized person

I, ML Sharma hereby, confirm that the above-mentioned experts prepared the EIA of Mining of Soapstone from Lease Area (7.841 Ha.) at Village- Karuli, Tehsil & District - Bageshwar, Uttarakhand for M/s Star Mines and minerals. I also confirm that the consultant organization shall be fully accountable for any mis-leading information mentioned in this statement.



Signature:

Name: ML Sharma

Designation: Director

Name of the EIA consultant organization: Enviro Infra Solutions Pvt. Ltd.

NABET Certificate No. & Issue Date: NABET/EIA/1922/RA 0157 dated November 13 2022

ANNEXURE I: COPY OF APPROVED TERMS OF REFERENCE (TOR)

कार्यालय राज्य स्तर पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA) व
राज्य विशेषज्ञ अंकन समिति (SEAC), उत्तराखण्ड।
653, इन्दिरा नगर कालोनी, सीमाद्वार रोड, देहरादून–248006 ।

****

पत्र संख्या– 223 /SEAC दिनांक– 15 जून, 2021

To,

M/s Star Mines and Minerals by Smt. Janki Rathor,
Add- House no. 346/3, Kalawati Colony,
Haldwani, Distt. Nainital.

Sub- Regarding Environmental Clearance for Extraction of Soapstone at Village: Karuli, Tehsil & District: Bageshwar. (Area- 7.841 Ha.).

Dear Sir/Madam,

Kindly take reference of your submitted vide proposal no SIA/UK/MIN/63385/2021 on dated 18th May, 2021 regarding above proposal. The SEAC in its meeting dated 3rd June, 2021 examined the proposal submitted by you. After through discussion and deliberation, it has been conveyed that SEAC desires Rapid EIA report of this proposal after due public consultation conducted by Uttarakhand Environment Protection and Pollution Control Board. The terms of reference (TOR) for the EIA report is being out lined below:-

1(a): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR NON-COAL MINING PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee. The above reports should also match with the latest District Survey Report (DSR) notification no- 2827 dated 25th July, 2018. **Data obtained from this DSR should be incorporated in the EIA Report for Impact Identification, Interpretation, Prediction, Carrying Capacity and Mitigation.**
4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7) It should be clearly stated whether the proponent Company has a well laid down Environment. Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
21) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
22) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
23) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

24) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
25) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
26) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
27) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
28) Details of any stream, seasonal or otherwise, passing through the lease area and modification/diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
29) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
30) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
31) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
32) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
33) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
34) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
35) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
36) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
37) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
38) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
39) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
41) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
42) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
43) **Besides the above, the below mentioned general points are also to be followed:-**
    a) Executive Summary of the EIA/EMP Report
    b) All documents to be properly referenced with index and continuous page numbering.
    c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
    d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

e) Where the documents provided are in a language other than English, an English translation should be provided.
f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

***Note**: 1) The study area shall comprise of radial distance of 10 KM from the project site and the study period is three months. The impact on each of the above parameter as a result of mining shall be assessed through appropriate modeling and prediction methods considering base line data.*

2) District Survey Report should be submitted as per the latest notification no- 2827 dated- 25-7-2018

Hence you are kindly requested to kindly submit EIA report for further necessary action.

(Rajiv Dhiman)
Member Secretary,
SEAC, Uttarakhand

Copy to:- Member Secretary, Gaura Devi Paryavaran Bhavan Environment Protection and Pollution Control Board, IT, Park Dehradun for necessary action.

(Rajiv Dhiman)
Member Secretary,
SEAC, Uttarakhand

ANNEXURE II: COPY OF LETTER OF INTENT (LOI)

उत्तराखण्ड शासन
औद्योगिक विकास (खनन) अनुभाग–1
संख्याः 1130 /VII-A-1/2020/1(4)/20
देहरादून,दिनांकः 20 नवम्बर, 2020

कार्यालय ज्ञाप
आशय पत्र

जनपद व तहसील बागेश्वर के ग्राम करूली में कुल 28.264 है० भूमि में उपखनिज सोपस्टोन का खनन पट्टा चाहने हेतु श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर, हाऊस नं० 346/3, कलावती कालोनी, हल्द्वानी एवं अन्य साझेदार मै० स्टार माइन्स एवं मिनरल्स, हाउस नं० 1516, सावित्री कालोनी, हल्द्वानी के आवेदन पत्र दिनांक 08.12.2015 एवं निदेशक, भूतत्व एवं खनिकर्म इकाई, उत्तराखण्ड के पत्र संख्या–746/मु०ख०/19/सोपस्टोन/भू०खनि०ई०/2015–16, दिनांक 31 जुलाई, 2020 द्वारा उपलब्ध कराये गये प्रस्ताव के क्रम में इस आशय पत्र (letter of Intent) के माध्यम से राज्य सरकार श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर, हाऊस नं० 346/3, कलावती कालोनी, हल्द्वानी एवं अन्य साझेदार मै० स्टार माइन्स एवं मिनरल्स, हाउस नं० 1516, सावित्री कालोनी हल्द्वानी के पक्ष में जनपद एवं तसहील बागेश्वर के ग्राम करूली के क्षेत्रान्तर्गत आवेदित कुल 28.264 है० भूमि के सापेक्ष कुल 19.879 है० भूमि में उत्तराखण्ड गौण खनिज नीति, 2015 (समय–समय पर यथासंशोधित) के प्रावधानानुसार उपखनिज सोपस्टोन का 50 वर्ष की अवधि हेतु खनन पट्टा स्वीकृत करने की मंशा रखती है। आवेदक यदि उक्त खनन पट्टा लेने हेतु सहमत हों तो निम्नलिखित शर्तों का अनुपालन पत्र प्राप्ति के छः माह में प्रस्तुत करें, जिससे खनन पट्टे की औपचारिक स्वीकृति जारी की जा सके :–

1. उत्तराखण्ड गौण खनिज नीति, 2015 (समय–समय पर यथासंशोधित) के नियमों/प्रतिबन्धों पर लिखित सहमति पत्र।
2. उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर 3(दो)(5) के अनुसार आवेदक द्वारा खनन योजना संबंधित खान अधिकारी/उप निदेशक (खनन) के समक्ष ₹ 20,000/–की धनराशि निर्धारित लेखाशीर्षक में ट्रेजरी चालान के माध्यम् से जमा कराने के उपरान्त चालान की प्रति के साथ प्रस्तुत की जायेगी।
3. आवेदक द्वारा उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर–3(ग्यारह) में कार्यालय संख्या–1589/VII-1/2015/68–ख/2015, दिनांक 7 अक्टूबर 2015 के द्वारा किये गये संशोधन के अनुसार, बैक गारन्टी ₹ 1.00 लाख मैनुअल माईनिंग एवं ₹ 2.00 लाख मशीनीकृत माईनिंग हेतु निदेशक के पक्ष में प्रस्तुत करनी होगी ।
4. उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर–7 के अनुसार आवेदक को खनन पट्टे में पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार की अधिसूचना का0आ0 2601 (अ) दिनांक 07 अक्टूबर 2014 के क्रम में जारी शासनादेश संख्या–1621/VII-1/212–ख /2014, दिनांक 17 दिसम्बर 2014 के अनुसार पर्यावरणीय अनुमति प्राप्त किया जाना आवश्यक होगा।
5. उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर–8 के अनुसार आवेदक को प्रतिभूति धनराशि ₹ 10,000/– निदेशक, भूतत्व एवं खनिकर्म इकाई के पक्ष में बन्धक करना होगा।
6. आवेदक को उत्तराखण्ड पर्यावरण संरक्षण एवं प्रदूषण नियंत्रण बोर्ड उत्तराखण्ड से CTE/CTO प्राप्त करना आवश्यक होगा।
7. राजस्व विभाग द्वारा निजी भूमि धारकों की सूची खसरा विवरण सहित सॉफ्ट कापी एवं हार्ड कापी ए–4 साईज में निदेशालय एवं शासन को उपलब्ध करायी जायेगी।
8. खनन पट्टा क्षेत्रान्तर्गत सार्वजनिक उपयोग की कुल 0.635 है० भूमि में खनन कार्य निषिद्ध रहेगा।
9. प्रस्तावित क्षेत्र का सीमाबन्धन भूतत्व एवं खनिकर्म इकाई के अधिकारियों द्वारा राजस्व विभाग तथा प्रभागीय वनाधिकारी, बागेश्वर वन प्रभाग के प्रतिनिधि के द्वारा संयुक्त रूप से किया जायेगा। सीमाबन्धन के समय यदि क्षेत्र का कोई भाग आपत्तिजनक पाया जाता है तो उसे पृथक कर दिया जायेगा, जिसके फलस्वरूप क्षेत्र अथवा क्षेत्रफल में कोई परिवर्तन किया जाता है, तो वह आवेदक को मान्य होगा।

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10. आवेदक खनन कार्य के दौरान स्थल में उपलब्ध सार्वजनिक सम्पत्ति, आवासीय भवन, सार्वजनिक स्थल भवन आदि को हानि नहीं पहुँचायेगा। हानि पहुँचाने की स्थिति में आवेदक स्वयं जिम्मेदार होगा।
11. कार्यालय ज्ञाप संख्या–1457/VII-1/2017/68 ख/15, दिनांक 17 नवम्बर, 2017 के बिन्दु सं० 6(तीन)(क)(2) के अनुसार आशय पत्र की समस्त शर्तों को पूर्ण किये जाने के पश्चात् निदेशक, भूतत्व एवं खनिकर्म इकाई की स्पष्ट संस्तुति पर शासन द्वारा खनन पट्टा स्वीकृत किया जायेगा, परन्तु पट्टाधारक द्वारा स्वीकृत क्षेत्र में खनन कार्य का प्रारम्भ सबंधित भू स्वामियों की सहमति/अनापत्ति के उपरान्त ही किया जायेगा।
12. आवेदक द्वारा फर्म का पंजीकरण भागीदारी विलेख, फर्म के सभी भागीदारों का चरित्र प्रमाण पत्र, सभी भागीदारों का खनन अदेयता प्रमाण पत्र, सभी भागीदारों के मूल निवास प्रमाण पत्र, सभी भागीदरों के द्वारा आयकर विवरणी जमा कराये जाने सम्बन्धी आयर अधिकारी द्वारा निर्गत अद्यतन प्रमाण पत्र एवं जी०एस०टी० नं० प्रस्तुत किया जाना अनिवार्य होगा।
13. खनन पट्टा क्षेत्रान्तर्गत आने वाले वृक्षों को वन विभाग द्वारा निर्धारित मानकों के अनुसार संरक्षित रखने की जिम्मेदारी आवेदक की होगी।

एन०एस० डुंगरियाल
संयुक्त सचिव

संख्याः 1130 (1)/VII-A-1/2020 तद्दिनांकित।

प्रतिलिपि: निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

1. निदेशक, भूतत्व एवं खनिकर्म इकाई, उत्तराखण्ड, देहरादून को उनके उक्तांकित पत्र के सन्दर्भ में सूचनार्थ एवं निम्न निर्देशों के साथ कि उत्तराखण्ड गौण खनिज नीति, 2015 (समय-समय पर यथासंशोधित) के प्रावधानानुसार खनन पट्टा हेतु प्रस्ताव शासन को उपलब्ध कराने का कष्ट करें :-
   (क) इस आदेश द्वारा स्वीकृत क्षेत्र का सीमाबन्धन प्रत्येक दशा में इस आदेश की दिनांक से 60 दिवस में करा लिया जाय ताकि समयान्तर्गत पट्टाधारक द्वारा पट्टाविलेख का निष्पादन कराया जा सके।
   (ख) खनन पट्टा क्षेत्र के सीमाबन्धन की सूचना मय सीमाबन्धन रिपोर्ट, मानचित्र आदि के सीमाबन्धन पूर्ण किये जाने की दिनांक से 10 दिवस में शासन को प्रेषित कर दी जाये।
   (ग) सीमाबन्धन रिपोर्ट में यह प्रमाण पत्र अवश्य दिया जाये कि खनन पट्टे पर स्वीकृत क्षेत्र में सम्मिलित वन भूमि के अलावा कोई अन्य वन भूमि खनन पट्टा हेतु सीमाबन्धित क्षेत्र में सम्मिलित नहीं की गई है तथा सीमाबन्धित क्षेत्र की परिधि से कम से कम 100 मीटर की दूरी पर है।
2. जिलाधिकारी, बागेश्वर।
3. श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर, हाऊस नं० 346/3, कलावती कालोनी, हल्द्वानी एवं अन्य साझेदार मै० स्टार माइन्स एवं मिनरल्स, हाउस नं० 1516, सावित्री कालोनी हल्द्वानी।
4. गार्ड फाईल।

आज्ञा से,

(दिनेश सिंह भण्डारी)
अनु सचिव

ANNEXURE III: COPY OF APPROVED MINING PLAN

Category-B1 (OTFM)

MINING PLAN

With

PROGRESSIVE MINE CLOSURE PLAN (submitted under Uttarakhand Minor Mineral Concession Rules, 2001, of 34(4)

VILLAGE – KARULI
TEHSIL & DISTRICT – BAGESHWAR (UTTARAKHAND)

Lease Area: - 19.879 ha out of 28.264 ha. (Demarcated area – 7.841ha)

Period of Mining Plan-Five Years from the Date of Opening of Mine

LESSEE

SMT. JANKI RATHOR W/o SHRI M.S. RATHOR,
HOUSE NO. 346/3, KALAWATI COLONY,
HALDWANI & OTHER PARTNER
M/s STAR MINES AND MINERALS,
HOUSE NO.1516, SAVITRI COLONY,
HALDWANI, DISTT, NAINITAL.
MOBILE NO. - 8476037777.

PREPARED BY

HARISH KAINTHOLA
मु0खा0/05/खनन/RQP/2015-16
RQP/DDN/141/2002-A

CONTENT

Chapter –I: Introduction and General Information

Part- A Introduction

The history of lease area grant, transfer ownership etc. is given below:

Sr. No.	Particular	Details
1	GO	LOI No.1130/VII-A-1/2020/1(4)/20 Dehradun, was obtained on dated 20.11.2020 for a period of 50 years at vill Karuli, Bageshwar in favour of Smt. Janki Rathor W/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. Mobile No. - 8476037777. Email Address- Copy of LoI is enclosed as Annexure No.1 Joint Demarcation Report is enclosed as Annexure 2. Chalan for approval for Mining plan is enclosed as Annexure-8.
2.	Date of first opening	Fresh lease area.
3.	Letter No. date of first mining plan approval with its proposal & lapse period.	Fresh Grant.
4.	Letter no. & date of approval of mining plan with its proposal & lapse period.	Fresh Area.
5	Validity period of present mining plan with lapse period.	Not applicable
6.	Transfer details & date of transfer	Not applicable
7	Status of Environmental clearance	To be obtained after approval of mining plan.

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR2019

Harish Kainthola
मु0ख0/05/खनन/RQP/2015–16

1.0 GENERAL

(a) **Name & Address of the Applicant**

Smt. Janki Rathor w/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and Minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. Mobile No. - 8476037777. Email Address-

(b) **Status of the Applicant/Lessee**

Private Individual Owner- Yes,

(c) **Mineral (s) which is /are including in the prospecting license (Mining Plan)**

Soapstone. Fresh mine.

(d) **Mineral (s) which is /are including in the letter of Intent/lease deed**

Soapstone

(e) **Mineral (s) which is the applicant/lessee intends to mine**

Soapstone

(f) **Name of recognised person , who prepared the mining plan/scheme of mine/ Mine closer plan**

Shri Harish Kainthola,
KainGeotech
3/1 Ekta Enclave Way to Seemadwar- ITBP,
Opposite Hotel Sun Park Inn,
GMS Raod, Dehradun - 248001 (Uttarakhand)
Telephone (Cell): 08077856332.
Dehra Dun- 248008 (Uttarakhand)
E-mail- Kain_geotech2147@rediffmail.com, hkainthola@gmail.com
Mobile No. - 09412028745, 09412058990 (Office)
Registration No. – मु0खा0/05/खनन/RQP/2015-16
RQP/DDN/141/2002-A

Kailash Chandra,
3/1 Ekta Enclave Way to Seemadwar- ITBP,
Opposite Hotel Sun Park Inn,
GMS Raod, Dehradun - 248001 (Uttarakhand)
Telephone (Cell): 08755182584.
E-mail – ksati84@gmail.com
Registration No. - RQP/UKGMU/NO 012/Year 2019

(g) GST No. PAN No.- Copy of GST NO. is enclosed as **Annexure No. 10** & Copy of PAN is enclosed as **Annexure No. 9**

2.0

I) LIST OF ANNEXURE

II) LIST OF PLATES

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR2019

Harish Kainthola
मु0खा0/05/खनन/RQP/2015-16

3.0 LOCATION AND ACCESIBILITY

(a) Lease Detail (Fresh Mine)

Name of Mine: - Karuli Soapstone Mine, (Smt. Janki Rathor w/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and Minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. Mobile No. - 8476037777. Email Address-

Lat./Long. of any boundary point-The latitude and longitude of boundary pillar no.3 and 4 in north direction are 29°52'15.34"N & 79°49'38.84"E and 29°52'15.56"N & 79°49'45.36"E respectively and the latitude and longitude of boundary pillar no.1 and 9 in southern direction are 29°52'02.81"N & 79°49'39.36"E and 29°52'04.51"N & 79°49'45.93"E respectively.

Date of grant of lease - State Govt. has given its consent to grant mining lease for a period of 50 years vide LOI No. 1130/VII-A-1/2020/1(4)/20 Dehradun, on dated 20.11.2020. Copy of LOI is enclosed Annexure No. 1

Lease was executed on – Yet to be executed.

Period/Expiry date - For 50 years / 19 November 2070

Name of lease holder- Smt. Janki Rathor w/o Shri M. S. Rathor & Partner M/s Star Mines.

Address- House no. 346/3 Kalawati Colony, Haldwani, Distt. Nainital Mobile No-8476037777.

Office Address- House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. Mobile No. - 8476037777. Email Address-

(b) Details of applied area with location map (fresh area):

19.879 ha area has been granted out of 28.264 ha and only 7.841ha area has been demarcated out of 19.879 ha area. Details of land use of applied area are tabulated below. Location map of the area is enclosed as Plate- 1. The copy of demarcated Khasara map is enclosed **Annexure No. 3**. The khasara details of the area is enclosed **Annexure No.4.**

Forest		Non- Forest		
				Area (ha)
Forest (specify)	None	1.	Category 1(क) Jotdar land	6.584
		2.	State Govt/ Civil. Land	
		a)	Land under Category 7(क)	0.425
		b)	Category 9(3)ट	0.658
		3.	Land for public use	
		a)	Land under Category 10(1)	0.157
		b)	Land under Category 10(2)	0.017
		Total		**7.841**

Total lease area/applied area- 19.879 ha out of 28.264 ha. Demarcated area -7.84 Iha Tehsil & District - Bageshwar, state –Uttarakhand, Village- Karuli.

Whether the area falls under Coastal Regulation Zone (CRZ)? If yes, details existence of public road/ railway line, if any nearby and approximate distance No

CTE/CTO: It is a fresh lease therefore consent to operate (CTO) has to be obtained from the department of Uttarakhand Environment Protection & Pollution Control board after approval of mining plan.

Toposheet No. with latitude & longitude of all corner boundary point/pillar

The area is located on Survey of India Toposheet No. – 53 O/13 in latitude 29°52'2.81"N to 29°52'15.56"N and longitude 79°49'37.59"E to 79°49'50.57"E. The applied area is occupied by single block and is bounded by 1, 2, 3, 4, 5, 6, 7, 8 & 9 boundaries pillars. Coordinates of pillars are shown in Surface plan **(Plate No. – 3)** and also tabulated below.

PILLAR NO	LATITUDE	LONGITUDE
1	29°52'02.81"N	79°49'39.36"E
2	29°52'13.89"N	79°49'37.59"E
3	29°52'15.34"N	79°49'38.84"E
4	29°52'15.56"N	79°49'45.36"E
5	29°52'12.03"N	79°49'43.01"E
6	29°52'10.22"N	79°49'48.11"E
7	29°52'11.93"N	79°49'49.51"E
8	29°52'11.78"N	79°49'50.57"E
9	29°52'04.51"N	79°49'45.93"E

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR2019

Harish Kainthola
मु0खा0/05/खनन/RQP/2015–16

4.0 DETAILS OF APPROVED MINING PLAN (if any)

4.1 Date and reference of earlier approved MP/SOM:
Fresh mining lease.

4.2 Details of last modifications if any (for the previous approved period) of approved MP/SOM, indicating date of approval, reason for modification:
Fresh mining lease.

4.3 Give review of earlier approved proposal (if any) in respect of exploration, excavation, reclamation etc.
Fresh mining lease.

4.4 Give status of compliance of violations pointed out by mining officer /District Magistrate/Dept. Geology and Mining office or other specified person appointed by Government or Director Geology & Mining.
Fresh mining lease.

4.5 Indicate and give details of any suspension /closure/ prohibitory order issued by any Government agency under any Rule or Court of law:
Not applicable.

4.6 In case the MP/SOM are submitted for approval of modification specify reason and justification for modification under these rules:
No modified MP/SOM has been submitted for approval.

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PART – B

5.0 GEOLOGY AND RESERVES

5.1 Physiography:

Topography

This area lies on southern slope of a hill in a mountainous terrain of rough and rugged topography. The adjacent area is drained by three seasonal *Rollis/Nalas*. The applied area forms a transverse ridge of ending southern slope in the valley. The area has sloppy undulating surface and at places flat gentle sloping cultivated land also. The highest RL is about 1210.4m on the northern side of the applied area, while the lowest RL recorded on the southern side of the applied area is about 1102.1m. General slope of the lease area is 10° - 30° in southern direction.

Drainage pattern

An area is drained by three nalas within the lease flowing almost north to south directions in the applied area.

Vegetation

Mostly about 80% of the applied area is being used for agricultural purposes. Remaining area is either occupied by govt/ grassy land or fruit trees or land for public use. Some fruit trees like Peach, Banana etc. are available within buffer zone.

Climatic condition

The area falls within Lesser Himalayan part. During winter the minimum temperature is 0.5°C and during summer maximum temperature is 33°C. The average rainfall in the area is recorded 979mm per year.

5.2 Geology:

Geology: Surface Geological map with contour interval maximum of 10 meter on a scale of 1:2000/1:1000 may be examined for features detailed below:

(i) Disposition of all lithological units with clear nomenclature and their descriptions.

Regional geology

The area forms the part of Calc zone of Tejam and Pithoragarh. According to Prof. K.S. Valdiya (Geology of Lesser Himalaya, 1980) and D. K. Banerjee et. al. (Him. Geol., Vol. 5, 1975) the lithostratigraphic sequence of this area is as follow:

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Pithoragarh Formation

Group/ Formation	Lithology
Berinag Formation	Quartzite, Meta quartzite, Conglomerate, Phyllite
----------Unconformity ----------	
Gangolihat magnesite	Magnesite, dolomitic soapstone with algal structures. Magnesite with talcose phyllite intercalations
----------Unconformity----------	
Sor Slate	Slate, Phyllite, subgrawake

In this region, rocks of Pithoragarh Formation occur. The development of algal stromatolite in carbonates occurrence or magnesite is a common associate of the carbonates. The Calc-Zone rock units are well known for their structural dispositions (windows, half windows in Lesser Kumaon Himalaya) for stromatolites and minerals (magnesite, soapstone and minor metallic occurrences).

(ii) Contacts of lithounits/rock type traced or inferred.

Geology of the applied and surrounding areas

The applied area and its surroundings are constituted in part, by Gangolihat Magnesite sequence. The local lithological sequence is as follows:

- Upper Carbonates
- Middle Talcose Phyllite
- Lower Carbonates

In the applied area and its surrounding consists of Gangolihat magnesite. This rock unit contains magnesite, talcose phyllite and talc lenses etc.

The Upper Carbonates Zone contains magnesite and sporadic magnesite, the Middle Talcose Phyllite Zone contains the talc in pockets and lenses, whereas the Lower Carbonate Zone contains magnesite intercalated with phyllite/ talcose phyllite. Pockets/ lenses or veins of soapstone also occur within carbonates of Gangolihat Magnesite.

The applied area lies in the village Karuli which is located almost on south-western sloping part of small hill. Both overburden and outcrops of soapstone are present in exploratory opening, magnesite boulders occur on the surface as well as intermixed with soapstone in the applied area. The lithounits found in the project area are:

Overburden: Almost whole block of the applied area is covered with overburden material. This overburden comprises grey to brown to dark brown, fine to medium grained silty-clayey soil. Small fragments of soapstone and magnesite are also present in this soil. Thickness of this soil /overburden varies from 0.5 to 1.5 m and average thickness appears 1.0m

Soapstone and magnesite: Intermixing of soapstone [$Mg_3Si_4O_{10}(OH)_2$] with magnesite occur below the soil cover. Mostly this soapstone or talc is highly prone to easy weathering and erosion due to its softness and thus its outcrops are rare. In shallow depth soapstone is massive to highly bedding and shows brightness/whiteness characteristic which generally varies from medium to high. At places talc pockets are crushed and crumbled due to

association with shear zones present in the area. In the applied area soapstone is fine grained, off-white to white, foliated and sometimes powdery due to crushing. In specimens or fragments it shows flexibility in edges due to thinness and trimming. Overburden comprises magnesite boulders intermixed with soapstone. This intermixed magnesite boulders in soapstone are about 60%.

Structural features: The regional and local structural features as could be deciphered in the applied block are as follows:

(a) The algal stromatolites are absent in this area. Regionally they have been reported to be significant in interpreting reversal of Upper and Lower Carbonate dispositions.

(b) It is evident that the Himalaya structural features and consequent impact on all lithounits is post mineralization (magnesite/ soapstone etc.) is evident. Even some magnesite may be contemporary to depositional/ diagenetic phases and it has also been affected by Himalayan Orogenic Upheavals.

(c) The Pre-Tertiary hydrothermal activity and mineralization has also been probably affected by Pre-Tertiary structural disturbances. It has been superposed by Tertiary (Paleocene to Pleistocene) Himalayan tectonic effects (crushing, lenticular shape etc. changes in thickness of soapstone etc.) and low grade metamorphism (phyllite to low grade schistose effects).

(iii) Attitude like strike and dip available in adequate numbers.

(iv) Structural feature such as joints, folds, faults and their attitudes.

(i) The typical bedding dip/ strike are not seen within the applied area, not even clear cut carbonate bands are exposed presently.

(ii) The cleavage/ foliation/ banding attitudes of soapstone/ talcose phyllite units vary as follows:

General Strike	Dip Amount	Dip Direction	Attitudes
N245^0 to N 275^0	30^0 - 35^0	N 155^0- N 185^0	Bedding
N240^0 to N 250^0	40^0 - 50^0	N 150^0- N 160^0	Bedding
N 030^0 to N 050^0	50^0 - 80^0	N 140^0 to N 160^0	Joint
N 050^0 to N 340^0	60^0 - 75^0	N 320^0 to N 070^0	Joint
N 80^0 to N 110^0	40^0 - 55^0	N 200^0 to N 170^0	Joint

The rocks found in the area in general seems to have undergone the more than one phases of tectonic activity. The upper and lower carbonates zones of Gangolihat Magnesite seem to be inverted. Rocks/ minerals in the area are crushed and sheared. Local trend of magnesite outcrops and talc pockets show the dip towards valley side i.e. towards southern side. The bedding plane dips towards SSE and SE direction with amount of 30^0 to 50^0. General strike direction varies towards N240^0 to N275^0.

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(v) Delineation of mineralization/ore zones with definite demarcation of observed and inferred.

During the exploration it is observed that mineral soapstone occurs in veins and lenses having 0.5m to 4.0m thickness, closely spaced extending surrounding area, i.e., in adjoining lease area. Soapstone/talc is metasomatic/hydrothermal product because of the emplacement of basic rock or intermediate igneous rock in subsurface condition which could have given rise to hydrothermal alters the basic rock.

i) Physiographic control: In general the soapstone lenticular/ tabular bodies follow the topography of the area having gentler slopes. The soapstone being soft mineral, it is found always along the slopes or below the comparatively gentle slope planes of terraced agricultural fields while in the steep cuts slopes and ridges either magnesite outcrops occur.

ii) Lithological controls: The presence of soapstone within the carbonate sequence suggests that the soapstone mineralization in this area & in the surroundings is confined to carbonate horizons only, showing lithological controls of mineralization. Soapstone/ talc being derived by hydrothermal activity from magnesium rich rocks, the rock like magnesite, and basic / ultrabasic rocks are likely to be found in close proximity of soapstone. The soapstone pockets into magnesite fragments within soapstone bodies occurring in main magnesite rock indicate a replacement origin. Locally discordant relationship between soapstone and magnesite strike may be due to structural/ flowage characters. Soapstone is grey to greyish, milky white, fine grained, present in irregular shapes formed by the replacement of magnesite. The lenses of soapstone form as pinch and swale structure with variable depth and thickness.

iii) Structural control: The soapstone mineralisation within the area lies in the anticlinal axis of Pungar valley. The one limb of the anticline is exposed the upper reaches of village Bijaipur which shows the quartzite outcrops while the other limb is exposed towards Dhopar to Banlekh on Bageshwar-Rema motor road which also shows the quartzite outcrops.

5.3 Details of Exploration already carried out.

It is a fresh mine. A trial pit of 5m*4m*3m has been dug at the coordinate 29°52.146'N, 79° 49.660'E to ascertain the mineral. Soapstone is present below 0.5m thick soil.

5.4 Exploration proposed to be carried out (in case adequate total reserves is not established for the tenure of lease)

During five years, the unexplored area shall be explored with five trial pits having the dimension 3m x 3m x 6m & five bore holes upto 30m depth shall be dug besides pitting to ascertain the continuity & grade of soapstone. The proposed exploration shall be carried out under the supervision of geologist. The core shall be stored in core box serially with suitable indexing & shall ensure submission of cores as per the manual issued by GSI from time to time. No cores shall be destroyed with prior permission. The year wise exploration programme is given below:

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Exploration programme: For five year.

Year	Name of Pit	Location	Expenditure to be incurred
2020-21	SPT-1	At central, the coordinates N 3304907 to E 386831.	Rs. 2000
2021-22	SPT-2	At central, the coordinates N 3304769 to E 386807.	Rs.2000
2022-23	SPT-3	At central, the coordinates N 3304817 to E 386872.	Rs.2000
2023-24	SPT-4	At central, the coordinates N 3305029 to E 386782.	Rs.2000
2024-25	SPT-5	At central, the coordinates N 3305003 to E 386765.	Rs.2000

Year	Drill Holes	Depth	Angle	Location	Expenditure to be incurred
2020-21	SDH-1	30m	Vertical	At the coordinate N 3304852& E 386807	Rs. 12000
2021-22	SDH-2	30m	Vertical	At the coordinate N 3304857 & E 386843	Rs.12000
2022-23	SDH-3	30m	Vertical	At the coordinate N 3304719 & E 386835	Rs.12000
2023-24	SDH-4	30m	Vertical	At the coordinate N 3305006 & E 386740	Rs.12000
2024-25	SDH-5	30m	Vertical	At the coordinate N 3305015 & E 386814	Rs.12000

The location of proposal bore holes is shown in geological map (Plate - 4)

Details of Reserve & Calculation:

i) Measured Mineral Resources (331): A 'Measured Mineral Resources' is that part of mineral Resource for which tonnage, densities, shape, physical characteristics, grade & mineable content can be estimated with a high level of confidence. It is based on detailed & reliable information gathered from exposed mining pits. The locations of mining pit 1 & 2 are spaced closely & provide confirm geological setup &grade continuity.

ii) Indicated Mineral Resources (332): An Indicated Mineral Resources is that part of a mineral Resource for which tonnage, densities, shape, physical characteristics, grade & mineral content can be estimated with a reasonable level of confidence. It is based on exploration, sampling & testing information gathered from outcrops, trenches, working pits etc.

iii) Blocked Measured Mineral (211): The "Blocked Measured Mineral" is that part of measured mineral which is not economically mineable this material is identified as being

possibly economical viable subject to changes in technological, economic, environment & other relevant conditions.

iv) Block indicated Mineral Reserve in Safety Barrier & Ultimate pit limit (221, 222): This category of mineral reserve is not economically mineable. This material is identified as being possibly economically viable subject to change in technological, economic, environment & other relevant conditions. This type of mineral resource has a lower level of confidence than Blocked Measured Resource.

v) Ultimate Pit Level: The depth of pit has reached 9m & proved & probable reserves have been estimated upto depth 15m from ground profile. Therefore ultimate depth of pit shall be 15 m from ground surface. In future exploration to be carried out by bore holes & depth of mineralization is further increased hence depth of ultimate pit limit will modified.

5.5 Reserves/ Resource Estimation:

The mining lease has been applied only in agriculture/nap land. Geological reserves have been estimated through geological cross sections. The strike influence of sections varies from 21.53m to 49.17m. The area of each section line is calculated and sectional area is multiplied by the strike influence in between two section line to give the volume of each section line. The volume is multiplied by the bulk density to give the tonnage. Bulk density of soapstone has been assumed 2.6 and it has been taken as per the past experience in and around in mines located in the adjacent area and with observations of nature &behaviour of the soapstone. The incidence of soapstone has been taken as 40% of the total volume in view of information collected from the nearby mines and also acquiring observation during development of exploratory pits and trial pits in the nap land areas. The general depths of excavated pits vary between 5m to 9m. Ultimate recovery of the soapstone has been estimated as 95% of the in-situ reserves (40%). Incidence of interburden (Low grade magnesite) has been taken as 60% of the total volume as per observation of working mines in nearby area. On the basis of past mining being carried out in the surrounding areas the depth of working pits have gone more than 9m and soapstone persists in depth.

Proved Geological Reserves

Section	Area (m^2)	Strike Influence (m)	Volume (Cum)	Mineable Reserves (in Tonnes)	Blocked Reserves (in Tonnes)	Total Reserves (in Tonnes)
LB to A-A'	1695.31	21.53	36493.81	37953.57	7458.05	45411.61
A-A' to B-B'	2119.137	40.18	85148.81	88554.76	17401.41	105956.17
B-B' to C-C'	1758.14	49.17	86441.09	89898.74	19488.06	109386.79
C-C' to D-D'	2117.61	47.90	101438.77	105496.32	19591.00	125087.31
D-D' to E-E'	1515.60	41.82	63386.81	65922.28	14925.41	80847.69
E-E' to F-F'	1794.05	34.81	62457.61	64955.91	19435.91	84391.82
F-F' to G-G'	1323.52	35.80	47376.81	49271.88	17121.70	66393.58
G-G' to H-H'	1243.40	36.19	44997.12	46797.00	10681.60	57478.60
H-H' to LB	638.06	24.56	15668.93	16295.69	7602.35	23898.03
Total	**14204.82**		**543409.75**	**565146.14**	**133705.47**	**698851.61**

Probable Geological Reserves

Section	Area (m2)	Strike Influence (m)	Volume (Cum)	Mineable Reserves (in Tonnes)	Blocked Reserves (in Tonnes)	Total Reserves (in Tonnes)
LB to A-A'	929.84	21.53	20015.99	20816.62	9386.91	30203.53
A-A' to B-B'	1162.30	40.18	46702.09	48570.17	21901.91	70472.08
B-B' to C-C'	950.46	49.17	46730.48	48599.70	24195.87	72795.57
C-C' to D-D"	1191.39	47.90	57070.41	59353.23	23995.45	83348.68
D-D' to E-E'	813.95	41.82	34041.57	35403.23	18451.75	53854.98
E-E' to F-F'	926.86	34.81	32267.28	33557.97	22466.37	56024.34
F-F' to G-G'	652.97	35.80	23373.86	24308.82	19859.55	44168.37
G-G' to H-H'	709.71	36.19	25683.43	26710.77	11586.38	38297.15
H-H' to LB	282.56	24.56	6938.89	7216.44	8677.07	15893.52
Total	**7620.02**		**292824.00**	**304536.96**	**160521.27**	**465058.22**

Blocked Reserves of Soapstone
Feasibility mineral Resource (211)

Section Line	Section Area (m^2)		Strike Influence (m)	Volume (Cum)		Blocked Reserves (Tonnes)	
	Blocked in (UPL)	Blocked Under 45°		Blocked in (UPL)	Blocked Under 45°	Blocked in (UPL)	Blocked Under 45°
LB to A-A'	155.04	178.10	21.53	3337.34	3833.859	3470.83	3987.21
A-A' to B-B'	193.79	222.63	40.18	7786.82	8945.311	8098.29	9303.12
B-B' to C-C'	181.05	200.08	49.17	8901.51	9837.002	9257.58	10230.48
C-C' to D-D"	175.56	217.68	47.90	8409.90	10427.6	8746.29	10844.70
D-D' to E-E'	179.12	164.03	41.82	7491.23	6860.124	7790.88	7134.53
E-E' to F-F'	208.91	327.90	34.81	7273.00	11415.37	7563.92	11871.99
F-F' to G-G'	197.41	262.50	35.80	7066.55	9396.624	7349.21	9772.49
G-G' to H-H'	191.28	92.53	36.19	6922.07	3348.703	7198.95	3482.65
H-H' to LB	192.96	104.71	24.56	4738.61	2571.337	4928.15	2674.19
Total	**1675.12**	**1770.16**		**61927.02**	**66635.93**	**64404.10**	**69301.37**

Pre-Feasibility mineral Resource (222)

section Line	Section Area		Strike Influence	Volume (Cum)		Blocked Reserves (Tonnes)	
	Blocked in (UPL)	Blocked Under 45°		Blocked in (UPL)	Blocked Under 45°	Blocked in (UPL)	Blocked Under 45°
LB to A-A'	102.93	316.36	21.53	2215.73	6810.1425	2304.36	7082.55
A-A' to B-B'	128.66	395.45	40.18	5169.83	15889.693	5376.63	16525.28
B-B' to C-C'	121.06	352.14	49.17	5951.83	17313.431	6189.90	18005.97
C-C' to D-D"	117.55	364.11	47.90	5630.93	17441.619	5856.17	18139.28

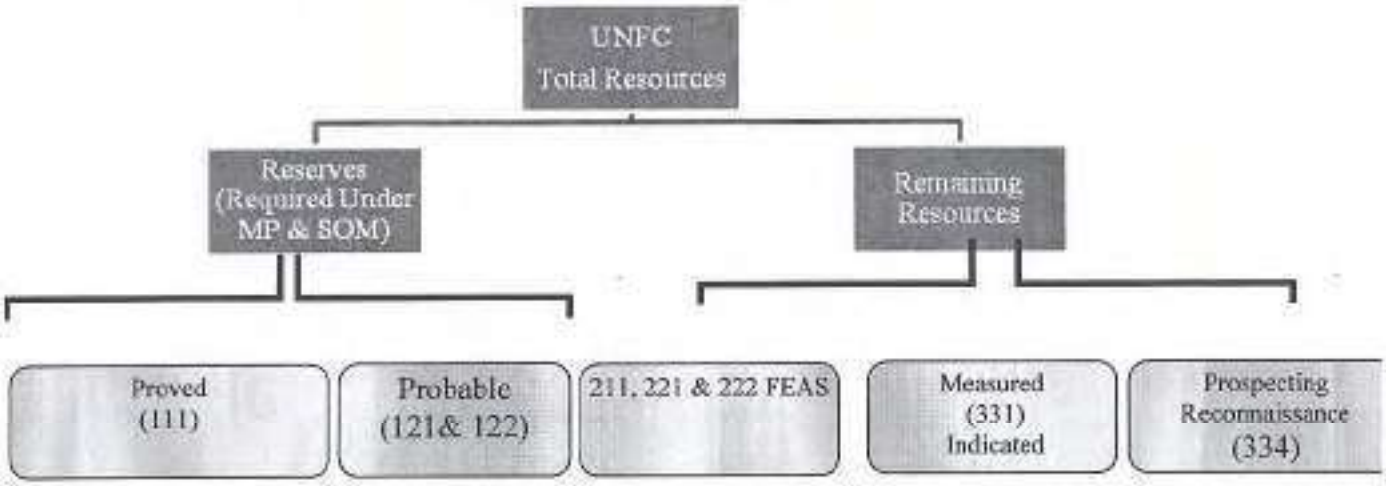
D-D' to E-E'	119.58	304.64	41.82	5001.06	12741.008	5201.10	13250.65
E-E' to F-F'	139.10	481.41	34.81	4842.69	16759.59	5036.40	17429.97
F-F' to G-G'	132.91	400.55	35.80	4757.73	14337.992	4948.04	14911.51
G-G' to H-H'	128.01	179.84	36.19	4632.47	6508.2819	4817.77	6768.61
H-H' to LB	128.82	210.93	24.56	3163.39	5179.9525	3289.92	5387.15
Total	**1118.62**	**3005.44**		**41365.66**	**112981.71**	**43020.29**	**117500.98**

5.6 Mineral Reserves/Resources As per UNFC classification:

i) Details of UNFC Classification:

UNFC is three digit code based system, the economical viability axis representing the first digit, the feasibility axis the second digit & geological axis the third digit.

Codes 1, 2 & 3 in decreasing order. The heights category of resources under UNFC system has code (111) & for the lowest category the code is (334).



Code (111): This code is provided for the economically mineable part of the measured mineral resources (Proved category reserves).

Code (121, 122): This code is provided for the economically mineable past of the (333) indicated mineral resources (Probable category reserves).

Code (211): This part of the measured mineral resources (Proved Category), which as per feasibility study has not found economically mineable. The reserves blocked in 7.5m buffer zone of the distances restriction from permanent structure.

Code (222): The part of indicated mineral resources (probable category) which has pre feasibility study has not found economically mineable. The reserves blocked 7.5m buffer zone & distances restricted from permanent structure.

Code (333): Tonnage, grade & mineral contents can be estimated with low level of confidence & resources are also inferred from geological part.

The mineral reserves/resources calculated within lease area are as below:-

Category	UNFC Code	Quantity in tonnes	Grade
A. Total Mineral Reserve			
Proved Mineral Reserve	111	**565146.14**	Paper & Detergent
Probable mineral Resource	121 & 122	**304536.96**	Paper & Detergent
B. Total Remaining Resources		0	
Feasibility mineral Resource	211	133705.47	Paper & Detergent
Prefeasibility mineral resource	221 & 222	160521.27	Paper & Detergent
Measured mineral resource	331	Nil	Nil
Indicated mineral resource	332	Nil	Nil
Inferred mineral resource	333	134881.22	Paper & Detergent
Reconnaissance mineral resource	334	Nil	Nil
Total Reserves + Resources		**12,98,791.06**	

Table No. 2

CATEGORISATION OF GEOLOGICAL RESERVE

Proved & Probable Mineral Reserves (111) & (122)							
Section Line	Area (111) m^2	Area (122) m^2	Strike Influence (m)	Volume (cum)		ROM of Soapstone 40% (tonnes)	
				111	122	111	122
LB to A-A'	1695.31	929.84	21.53	36493.81	20015.99	37953.57	20816.62
A-A' to B-B'	2119.137	1162.30	40.18	85148.81	46702.09	88554.76	48570.17
B-B' to C-C'	1758.14	950.46	49.17	86441.09	46730.48	89898.74	48599.70
C-C' to D-D"	2117.61	1191.39	47.90	101438.77	57070.41	105496.32	59353.23
D-D' to E-E'	1515.60	813.95	41.82	63386.81	34041.57	65922.28	35403.23
E-E' to F-F'	1794.05	926.86	34.81	62457.61	32267.28	64955.91	33557.97
F-F' to G-G'	1323.52	652.97	35.80	47376.81	23373.86	49271.88	24308.82
G-G' to H-H'	1243.40	709.71	36.19	44997.12	25683.43	46797.00	26710.77
H-H' to LB	638.06	282.56	24.56	15668.93	6938.89	16295.69	7216.44
Total	**14204.82**	**7620.02**		**543409.75**	**292824.00**	**565146.14**	**304536.96**

INFERRED MINERAL RESOURCES (333)

Section	Area 333 (m^2)	Strike Influence (m)	Volume (Cum)	Reserves (in Tonnes)
LB to A-A'	424.74	21.53	9143.06	9508.79
A-A' to B-B'	530.92	40.18	21332.96	22186.28
B-B' to C-C'	410.67	49.17	20191.23	20998.88
C-C' to D-D"	531.10	47.90	25440.95	26458.58

D-D' to E-E'	357.27	41.82	14942.06	15539.75
E-E' to F-F'	402.53	34.81	14013.45	14573.99
F-F' to G-G'	294.60	35.80	10545.57	10967.39
G-G' to H-H'	320.90	36.19	11613.12	12077.65
H-H' to LB	100.63	24.56	2471.07	2569.91
	3373.36		**129693.48**	**134881.22**

5.7 Availability of Mineral: The soapstone of area is weakly foliated & whiteness of soapstone appears 78% to 90% is being used in soapstone, detergent & paper industries.

5.8 Anticipated Life of Mine: As per present data the total proved & probable reserves upto depth 15m comes out 836233 tonnes & same has been considered as mineable reserves also within envisaged average rate of production of soapstone 22800 /annum. The anticipated life of mine comes out 37 year. With the proposed exploration in future, the mineable reserves may be enhanced & accordingly life of mine may be increased.

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6.0 Mining:-

6.1 Opencast mining:

(i) Existing method of mining:

It is a fresh mining lease and mining is proposed open cast manual mining. Mining is being carried out with formation of benches. The soil is scrapped manually and is mixed with interburden material and dumped near the working pits. Below the soil, soapstone is found which is intermixed with Magnesite boulder and magnesite has been considered as interburden. The soapstone is exploited with the help of pickaxe, crowbar, chisels & spade. Sorting and sizing is being carried out manually at the pit head. Different grade of soapstone is filled into 50 Kg plastic bags and transported up to the PWD road by mules.No drilling and blasting is being carried out for the exploitation of soapstone. Except sorting & dressing no other means of beneficiation is being carried out within the lease hold.

The details of mining pit & dump lying in various *khasra* number & its ownership/occupancy is given below:

Mining Pits

Mining pits	RL (m)	Coordinates	Khasra Nos.	Name of Owner/ Owners
I year Pit-1	1127-1133	N 3304762 to N 3304934 & E 386874 to E 386851	927, 943, 962, 971, 972, 973, 975, 976, 977, 989, 990, 991, 1049, 1115, 1116, 1117, 1119, 1120, 1121, 1122, 1123, 1120, 1121, 1122, 1123, 1124, 1126, 1127, 1128, 1129, 1130, 1132, 1133, 1134,1137, 1138, 1142, 1144, 1146 , 1147, 1150, 1151, 1153, 1154, 1155, 1159, 1164, 1165, 1166, 1168, 1191, 1625, 1626	Guman Singh, Sadho Singh, Keshar Singh, Ram Singh, Dhan Singh, Kundan Lal, Bhupal Singh, Balwant Singh, Bachai Singh, Rauli, Prem Singh, Jagdish Singh
II year Pit-1	1121-1130	N 3304713 to N 3304900 & E 386774 to E 386881	950, 1049, 1113, 1115, 1116, 1117, 1119, 1121, 1122, 1123, 1126, 1128, 1130, 1133, 1134, 1135, 1137, 1138, 1139, 1142, 1143, 1144, 1146, 1147, 1148, 1154, 1157, 1158, 1159, 1160, 1161, 1162, 1168, 1482, 1489, 1600, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624,	Rauli, Keshar Singh, Ram Singh, Dhan Singh, Kundan Lal, Guman Singh, Bhupal Singh, Balwant Singh, Bachai Singh, Sadho Singh, Rauli, Balwant Singh, Jagdish Singh, Joga Singh

			1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1642, 1645,	
III year Pit- I	1115-1124	N 3304703 to N 3304856 & E 386822 to E 386896	1121, 1122, 1123, 1139, 1148, 1157, 1158, 1159, 1160, 1161, 1162, 1199, 1482, 1484, 1487, 1488, 1489, 1497, 1593, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1608, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1627, 1628, 1629, 1633, 1634, 1635, 1642, 1644, 1645,	Kundan Lal, Balwant Singh, Bhupal Singh, Ram Singh, Rauli, Bachai Singh, Ram Singh, Keshar Singh, Dhan Singh, Jagdish Singh, Joga Singh, Kundan Singh
IV year Pit- 2	1172-1187	N 3304981 to N 3305061 & E 386732 to E 386832	253, 255, 256, 272, 273, 274, 275, 276, 308, 309, 899, 900, 901, 902, 903, 904, 905, 906, 925, 945	Dev Ram, Joga Ram, Nandan Singh, Sadho Singh, Guman Singh
V year Pit- 2	1160-1175	N 3304936 to N 3305044 & E 386837 to E 386828	906, 907, 908, 909, 910, 911, 912, 914, 915, 917, 918, 919, 920, 922, 923, 924, 932, 933	Dev Ram, Sadho Singh, Joga Ram, Chanchal Singh, Guman Singh

Soil Dump

Soil Dump	Coordinates	Khasra	Name of Land owner
I Year	N 3304871to N 3304892 & E 386757 to E 386777	869, 870, 871, 1001, 1002, 1003, 1004	Jogaram, Government Land
II year	N 3304888 to N 3304914 & E 386768 to E 386787	869,871,913,916,927,999,1000,1001	Jogaram, Chanchal Singh, Government Land, Guman Singh
III year	N 3304914 to N 3304935 & E 386778 to E 386793	916,927,928,934,936,937,943,990,992	Government Land, Guman Singh, Sadho Singh
IV year	N 3304975 to N 3304996 & E 386780 to E 386806	924,925,926,930,931,934	Guman Singh, Government Land
V year	N 3304988 to N 3305010 & E 386800 to E 386825	930,931,933,934,940,941	Guman Singh, Sadho Singh

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Interburden Dump

Interburden Dump	Coordinates	Khasra	Name of Lease Holder/Holders
I year	N 3304862 to N 3304888 & E 386766 to E 386786	871, 999, 1000,1001, 1002, 1003, 1004	Jogaram, Government Land
II year	N 3304884 to N 3304904 & E 386777 to E 386795	871, 913, 916, 917, 990, 992, 998, 999, 1000, 1001	Jogaram, Chanchal Singh, Government Land, Guman Singh, Sadho Singh
III year	N 3304905 to N 3304933 & E 386787 to E 386803	920, 927, 934, 937, 943, 944, 982, 990, 992, 995	Sadho Singh, Guman Singh, Government Land, Sadho Singh
IV year	N 3304966 to N 3304988 & E 386786 to E 386811	930, 932, 934, 937, 938,	Guman Singh, Government Land, Sadho Singh
V year	N 3304980 to N 3305002 & E 386806 to E 386831	934, 938, 946, 990, 994	Guman Singh, Sadho Singh, Government Land

Plantation

Plantation	Coordinates	Khasra	Name of Lease Holder/Holders
I year	N 3304812 to N 3304934 & E 386844 to E 386894	963, 1142, 1143, 1154, 1156,1161,1162, 1163, 1165,1166, 1482,1484, 1489,1496,1502	Guman Singh, Bachai Singh, Keshar Singh, Balwant Singh, Ram Singh,Government Land, Bhupal Singh Rauli, Dhan Singh
II year	N 3304712 to N 3304815 & E 386787 to E 386897	1480,1502,1503,1504,1509,1510,1514,1515, 1516,1517,1520,1524,1525,1526,1527,1528, 1531,1533	Keshar Singh, Dhan Singh, Bhupal Singh, Jagdish Singh, Ram Singh, Bhupal Singh
III year	N 3304711 to N 3304797 & E 386753 to E 386889	1048,1051,1053,1105,1106, 1107,1577,1569, 1588,1604,1607,1609,1614, 1637,1642,1643, 1644,1645,1693,1696,1701, 1707,1708,1724, 1725,1726	Bachai Singh, Keshar Singh, Ram Singh, Government Land, Kushal Singh, Balwant Singh, Lal Singh Dhan Singh, Bhupal Singh, Diwan Singh, kundan Singh, Jagdish Singh

IV year	N 3304972 to N 3305060 & E 386730 to E 386835	242,252,253,268,271,273,277 ,278,280,281,284, 285,286,287,306,307,308,309 ,310,313,873,891, 892,895,896	Khal, Rauli, Devram, Jogaram
V year	N 3304934 to N 3305061 & E 386833 to E 386847	252,900,901,902,904,905,918 ,920,921,923,924, 933,939,935,940,941,942,943 ,946,948,950,951, 953,956,957,959,960, 961,962	Rauli, Devram, Sadho Singh, Guman Singh

(ii) Proposed method of mining:

Excavator shall be deployed for the removal of overburden & interburden. Soapstone is soft mineral therefore no drilling & blasting shall be required. No further beneficiation will be required except breaking & sorting. From road side the soapstone bags will be loaded into trucks through manually and transported to Haldwani The salient points of proposed method of mining are given below:-

- The mining will be done semi-mechanized way in open cast method in quite a systematic manner by forming upto 9 m high benches with 1.5m to 3.0m sub-benches. However, there may be minor variation in the width and height which the lessee will keep on mending.
- The top soil and interburden to be scrapped with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and will be stacked separately in dump yard located near the working pit.
- The extracted mineral is properly sorted out at the mine site. Crow bars are sometimes used to dislodge the mineral.
- The excavation for soapstone will be made through JCB Machine, dozer, shovels, pickaxe, spade & crowbar.
- It is proposed to make 5m to 9.0m height benches which will be sliced in three stages each of 3.0m height with 1.5m height sub benches.
- The slope of the faces will be kept 60^0-70^0 and the ultimate slope of the pit will remain 45^0.
- Developmental work will be done by construction of road/track to different working benches, removal of top soil and interburden.
- The soil will be filled into the bags, loaded on mules and unload into stockyard.
- The interburden generated during mining will be separately stacked and places shown within the applied area which will be backfilled.
- Sorting of high grade soapstone will be done on the benches by the labourers and it will be graded.
- The local people will be used for removal of mineral to the nearest road point from where the minerals will be transported by trucks to Haldwani.

- The mineral will be loaded over the trucks by the manual labour. The pit will be connected by track/foot path to the main road.
- The slope of track may vary from 1:8 to 1:20.
- Each mining face will be connected by track/road having width 3.0m.
- Exploitation of soapstone is small scale of mining and does not require any drilling & blasting.
- The average rate of production of soapstone is estimated in between 20000 to 24000 tonnes from I year to V year.
- Proper precautionary measures shall be taken to prevent soil erosion.
- The recovery of the soapstone will be 40% of the total excavation.
- Office, store, first aid centre, drinking water shed, rest shelter etc. will be constructed temporarily within the applied area.
- The mining is confined in the applied area and mining benches of the pit will be backfilled to retain its original topography therefore the efforts for afforestation would be done inside the applied area in between lease boundary and UPL, about 0.495 area will be covered by 2295 saplings upto five year. Upto lease period 22950 saplings will be done in *Van Panchayat* and forest land after taking due permission from concerning authority.
- The top soil and interburden are stacked separately in dump yard within the applied area and will be used for reclamation of the pit after exploitation of the mineral.
- Mining operations shall be carried out scientifically by following the provisions of Mining and Minerals (Development & Regulation) Act, 2015, MCDR Notification 2017, Uttarakhand, Metalliferrous Mines Regulations (MMR) 1961, UKMMCR 2001 and time to time directions/amendment given by Geology & Mining Unit & State Government will growth generated on such boundary to isolate mining from rest of the area not be over looked at any stage.
- 7.5 m un-mined barrier will be maintained all along the lease boundary and vegetation.
- Exploitation of the soapstone will not be done in land for public use.

It will be open cast mechanized mine. Due to the scarcity of workers it is not possible to carry out mining operation systematically & scientifically through the formation of benches. Therefore lessee has left no option but to deploy an excavator for systematic & scientific mining, conservation of mineral & protection of environment. It has been revealed from past mining experience that average recovery of waste rock / boulders is around 60% of total ROM. The rock formation is hard & rock breaker may be deployed for the removal of hard strata. Lessee intends to set up small crusher unit so that waste rock/ boulders shall be utilised for making aggregates. If waste material is used for making aggregates, the problem is disposal of waste shall be solved & govt. will earn revenue. Chemical analysis of soapstone and waste material can be carried out from Laboratory of Directorate of Geology & Mining, Bhopalpani, Dehradun.

Extraction & management of minerals has to be guided by long- term national goals & perspective & integrated into the overall strategy of the country's economic development. Mining technology will be upgraded to ensure extraction & utilisation of entire Run of

Mines (ROM). There shall be an adequate & effective legal & institutional framework promoting zero waste mining as the ultimate goal & commitment to prevent sub-optimal & unscientific mining.

Mining shall be carried out from higher level & subsequently advance to upper levels. As soon as mining pits reach its maximum economical depth backfilling shall be commenced from lower level to restore the maximum original topography of the area. This is common practice of soapstone mining in Kumaon Himalayas. Backfilling in both the pits shall commenced from first year onwards to restore the mined out pit to its maximum original topography. The average depression will be 2.0m with respect to its original topography.

The development activities along with khasra details are shown in year wise development plan.

All quantities of waste material to be generated each year shall be dumped with in lease area secured with retaining wall.

The broad parameters of working benches:

Item	Details
i) Method of Mining	Mining operation has been proposed by mechanized open cast method.
ii) Benches parameters	The broad parameters of working benches:
Bench Height	5.0m to 9.0m
Width	8.0m
Haul road width	6.0m
Bench slope	68^0
Over all Pit slope	32^0
Overall depth of mine during plan period	In pit-1 depth of mine varies between 3m to 8m (from 1133mRL to 1118mRL) while in pit-2 depth of mine varies between 8m to 9m (From 1187m RL to 1163m RL).
Gradient of Haul Road	1:16
Grid reference of proposed working location	Pit 1 will be in between coordinates N3304703 to N3304856 & E386774 to E 386851 & while in Pit 2 it is in between coordinates N 3304936 to N 3305044 & E386732 to E386828.
Water table	No water table will be encountered due to proposed mining activities.
Pumping of water	No water will accumulate in the mining pit therefore no such proposal has given for pumping water.
Surface water management	Seasonal drainages exist within area & flow north to south direction. Mining activities are

	proposed for away from drainage & mining operations shall be temporarily closed during monsoon period. During monsoon period all mining pits shall be backfilled, therefore there shall be no adverse impact on water on water regime. Few check damps are proposed across the drainage to settle down suspended solids if any.

Retaining wall having width & height 1.0m shall also be erected at the base of backfilled pit and at the base & side of dump. Check dam having dimension of 8.0m to14.0m x 2.0m x 1.0m shall be erected across the drainage to control the siltation during rainy season. Periodically cleaning of check dam & shall be undertaken for smooth flow of water.

The year wise completion of activities of check dams & retaining walls during plan period is as below:

Activities	Year				
	2021-22	2022-23	2023-24	2024-25	2025-26
Retaining wall at the edge of backfilled pit	132m	158m	-	227m	-
Retaining wall at the base & side of dump	136m	138m	135m	134m	133m
Check dam	1 nos.	1 nos.	1 nos.	1 nos.	1 nos.

Geotechnical Studies: Geotechnical studies like slope failure, slip failure, rock failure etc. shall be carried out yearly. The retaining wall having proper shape & size shall be erected considering all technical parameters.

The width of benches shall kept minimum 3m and height of benches shall be kept 5.0m to 9.0m & slope of faces shall be kept 68^{o}. Approach road having width 3.0m gradient 1:16 shall be provided to connect each mining faces. In Pit 1 & Pit 2 mining faces shall advance towards south to southeast direction & alignment of faces by & large in southeastern direction. During first year to fifth year interburden to be generated from pit 1 & pit 2 shall be dumped separately towards slope of working pits & 70% quantities shall be used for backfilling. Initially interburden will be filled in the mined out pit & lateral on soil shall be spread over it, levelled it & restore to its maximum original topography. After backfilling the area shall be used for agriculture purpose.

Excavator shall be deployed to remove the interburden & dump on dumping ground. For the breaking of hard rock/boulders, rock breaker shall be used.

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मु0खा0/05/खनन/RQP/2015-16

The make & model of excavator is as below:

Make & Model	Bucket Capacity	Boom length
Hundai-210	1cum	3mm
Rock Breaker	1mtr length	Dia 6"

Mining activities shall be carried out in owl shift only & excavator/rock breaker shall be deployed from 8.0am to 5.0pm.

The proposal of mining is given in two pits and area of proposal of mining is given in fresh land. In pit-1, 1.299 ha area and in pit-2, 0.530ha area shall be broken due to mining pit during five years. Out of 19875.42 cum overburden 13460.02 cum from pit-1 and 6415.40 cum from pit-2 waste quantities shall be backfilled /reclaimed, levelled it & put it use for agriculture purpose.

(iii) Last five year production target & achievement:

It is a fresh lease and no mining activity has been done so far.

(iv) Proposed five year production target:

Mining plan is being prepared for five years. Mining will be done by using semi-mechanised method to achieve the target within stipulated period and increasing the production as per demand in the market. A strip of 7.5m wide has been marked all along the lease boundary for plantation growth and other mining related allied activities like dump yard etc. One JCB having the capacity of 1/2cum will be utilised to achieve the proposed production. Year wise production target for proposed three year are given below.

Year	I	II	III	IV	V	Total
Proposed Production (Tonne)	20000	24000	24000	23000	23000	**114000**

I Year (2021 –2022): Pit -1

In this year 0.455 ha area will be mined out from pit-1.About 204 m long road/ track having width of 3.0m and gradient of 1.20 will be made for the transportation of mineral and interburden. About 21618.94 cum of interburden and about 3789.20 cum of soil will be produced due to advancement of mining faces. About 136m long retaining wall having width 1.0m and height 1.5m will be made along the periphery of waste dump & soil dump. About 132m long retaining wall will be made at the edge of the back filled Pit. The back filling will be undertaken after winning full depth of the mineral & back filling will not be undertaken over the benches in which mineral exist. In this year net production of soapstone will be 20000 tonnes. Working will be undertaken from higher level to lower level. The slope of the benches will be kept 45^0. The road/ track having width of 3m and gradient of 1:20m will be connected to mine faces. The benches will have slope towards south-east direction. In this year the soil and interburden will be dumped towards the western flank of the area. The mining faces will advance towards SE direction. The benches upto RL 1133 m will be backfilled by end of the year. The position of benches in this year is shown in Plate -6.

The bench wise recoverable reserves, total excavation of soapstone, saleable quantities and balance recoverable reserves at the end of the year is as below.

Pit -1

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1133	1127	139.00	13.88	3.00	6.00	11575.92	9569.43	9569.43	0.00	1929.32	10418.33
1130	1123	132.00	14.09	3.00	7.00	13019.16	11084.88	10430.57	654.31	1859.88	11200.61
Total						**24595.08**	**20654.31**	**20000.00**	**654.31**	**3789.20**	**21618.94**

Development activities	Coordinates	Khasra No	Name of Owner Owners
Mining pits I year Pit-1	N 3304762 to N 3304934& E 386874 to E 386851	927, 943, 962, 971, 972, 973, 975, 976, 977, 989, 990, 991, 1049, 1115, 1116, 1117, 1119, 1120, 1121, 1122, 1123, 1120, 1121, 1122, 1123, 1124, 1126, 1127, 1128, 1129, 1130, 1132, 1133, 1134,1137, 1138, 1142, 1144, 1146 , 1147, 1150, 1151, 1153, 1154, 1155, 1159, 1164, 1165, 1166, 1168, 1191, 1625, 1626	Guman Singh, Sadho Singh, Keshar Singh, Ram Singh, Dhan Singh, Kundan Lal, Bhupal Singh, Balwant Singh, Bachai Singh, Rauli, Prem Singh, Jagdish Singh
Soil Dump I Year	N 3304871 to N 3304892 & E 386757 to E 386777	869, 870, 871, 1001, 1002, 1003, 1004	Jogaram, Government Land
Interburden Dump I year	N 3304862 to N 3304888 & E 386766 to E 386786	871, 999, 1000,1001, 1002, 1003, 1004	Jogaram, Government Land
Plantation I year	N 3304812 to N 3304934 & E 386844 to E 386894	963,1142,1143,1154,1156,1161,1162,1163, 1165,1166,1482,1484,1489,1496,1502	Guman Singh, Bachai Singh, Keshar Singh, Balwant Singh, Ram Singh,Government Land, Bhupal Singh Rauli, Dhan Singh

II Year (2022 –2023): Pit -1

In this year 0.479 ha area will be mined out from pit-1. About 654.31tonne balance quantity of soapstone from first year will be exploited in this year. Only maintenance of the existing road will be done at this year. About 25913.76 cum of interburden and about 6337.59 cum of soil will be produced due to advancement of mining faces. About 138m long retaining wall having width 1.0m and height 1.5m will be made along the periphery of waste dump & soil

dump. About 158m long retaining wall will be made at the edge of the back filled pit. The back filling will be undertaken after winning full depth of the mineral & back filling will not be undertaken over the benches in which mineral exist. In this year net production of soapstone will be 24000 tonnes.

Working will be undertaken from higher level to lower level. The slope of the benches will be kept 45^0. The road/ track having width of 3m and gradient of 1:20m will be connected to mine faces. The benches will have slope towards south side. In this year the soil and interburden will be dumped towards the western flank of the area. The mining faces will advance towards SSE direction. The benches upto RL 1130 m will be backfilled by end of the year. The position of benches in this year is shown in Plate -7.

The bench wise recoverable reserves, total excavation of soapstone, saleable quantities and balance recoverable reserves at the end of the year is as below.

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1130	1123	132.00	14.09	3.00	7.00	13709.57	654.31	654.31	0.00	0	661.15
1127	1120	135.00	13.70	3.00	7.00	12946.50	11023.02	11023.02	0.00	1849.50	11836.80
1124	1118	158.00	16.01	3.00	6.00	15177.48	12546.72	12322.67	224.05	2529.58	13415.81
Total						**41833.55**	**24224.05**	**24000.00**	**224.05**	**4379.08**	**25913.76**

Development activities	Coordinates	Khasra No	Name of Owner/ Owners
Mining pits II year Pit-1	N 3304713 to N 3304900 & E 386774 to E 386881	950, 1049, 1113, 1115, 1116, 1117, 1119, 1121, 1122, 1123, 1126, 1128, 1130, 1133, 1134, 1135, 1137, 1138, 1139, 1142, 1143, 1144, 1146, 1147, 1148, 1154, 1157, 1158, 1159, 1160, 1161, 1162, 1168, 1482, 1489, 1600, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1642, 1645,	Rauli, Keshar Singh, Ram Singh, Dhan Singh, Kundan Lal, Guman Singh, Bhupal Singh, Balwant Singh, Bachai Singh, Sadho Singh, Rauli, Balwant Singh, Jagdish Singh, Joga Singh
Soil Dump II year	N 3304888 to N 3304914 & E 386768 to E 386787	869,871,913,916,927,999,1000,1001	Jogaram, Chanchal Singh, Government Land, Guman Singh
Interburden Dump II year	N 3304884 to N 3304904 & E 386777 to E 386795	871, 913, 916, 917, 990, 992, 998, 999, 1000, 1001	Jogaram, Chanchal Singh, Government Land, Guman Singh, Sadho Singh
Plantation II year	N 3304712 to N 3304815 & E 386787 to E 386897	1480,1502,1503,1504,1509,1510,1514,1515,1516,1517,1520,1524,1525, 1526,1527,1528,1531,1533	Keshar Singh, Dhan Singh, Bhupal Singh, Jagdish Singh, Ram Singh, Bhupal Singh

III Year (2023 –2024): Pit – 1

In this year 0.366 ha area will be mined out from Pit-1. About 224.05tonne balance quantity of soapstone from second year will be exploited in this year. Only maintenance of the existing road will be done at this year. About 26294.31cum of interburden and about 7821.32cum of soil will be produced due to advancement of mining faces. About 135m long retaining wall having width 1.0m and height 1.5m will be made along the periphery of waste dump & soil dump. The back filling will be undertaken after winning full depth of the mineral & back filling will not be undertaken over the benches in which mineral exist. In this year net production of soapstone will be 24000 tonnes.

Working will be undertaken from higher level to lower level. The slope of the benches will be kept 45^0. The road/ track having width of 3m and gradient of 1:20m will be connected to mine faces. The benches will have slope towards southern side. In this year the soil and interburden will be dumped towards the western flank of the area. The mining faces will advance towards SSE direction. The benches upto RL 1124 will be backfilled by end of the year. The position of benches in this year is shown in Plate -8.

The bench wise recoverable reserves, total excavation of soapstone, saleable quantities and balance recoverable reserves at the end of the year is as below.

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1124	1118	158.00	16.01	3.00	6.00	15177.48	224.05	224.05	0.00	0	239.57
1121	1115	164.00	19.92	3.00	6.00	19601.28	16203.72	16203.72	0.00	3266.88	17641.15
1118	1113	137.00	14.78	3.00	5.00	10124.30	8018.45	7572.23	446.22	2024.86	8413.59
Total						**44903.06**	**24446.22**	**24000.00**	**446.22**	**5291.74**	**26294.31**

Development activities	Coordinates	Khasra No	Name of Owner/ Owners
Mining pits III year Pit- 1	N 3304703 to N 3304856 & E 386822 to E 386896	1121, 1122, 1123, 1139, 1148, 1157, 1158, 1159, 1160, 1161, 1162, 1199, 1482, 1484, 1487, 1488, 1489, 1497, 1593, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1608, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1627, 1628, 1629, 1633, 1634, 1635, 1642, 1644, 1645	Kundan Lal, Balwant Singh, Bhupal Singh, Ram Singh, Rauli, Bachai Singh, Ram Singh, Keshar Singh, Dhan Singh, Jagdish Singh, Joga Singh, Kundan Singh
Soil Dump III year	N 3304914 to N 3304935 & E 386778 to E 386793	916,927,928,934,936,937,943,990, 992	Government Land, Guman Singh, Sadho Singh
Interburden	N 3304905 to N 3304933	920, 927, 934, 937, 943, 944, 982,	Sadho Singh, Guman

Dump III year	& E 386787 to E 386803	990, 992, 995	Singh, Government Land, Sadho Singh
Plantation III year	N 3304711 to N 3304797 & E 386753 to E 386889	1048,1051,1053,1105,1106,1107,1577,1569,1588,1604,1607,1609,1614,1637,1642,1643,1644,1645,1693,1696,1701,1707,1708,1724,1725,1726	Bachai Singh, Keshar Singh, Ram Singh, Government Land, Kushal Singh, Balwant Singh, Lal Singh, Dhan Singh, kundan Singh, Bhupal Singh, Diwan Singh, kundan Singh, Jagdish Singh

IV Year (2024 –2025): Pit -2

In this year 0.250 ha area will be mined out from pit-2. About 434 m long road/ track having width of 3.0m and gradient of 1.20 will be made for the transportation of mineral and interburden. Only maintenance of the road will be done in this year. About 24454.03 cum of interburden and about 3394.52 cum of soil will be produced due to advancement of mining faces. About 134m long retaining wall having width 1.0m and height 1.5m will be made along the periphery of waste dump & soil dump. About 227m long retaining wall will be made at the edge of the back filled pit. The back filling will be undertaken after winning full depth of the mineral & back filling will not be undertaken over the benches in which mineral exist. In this year net production of soapstone will be 23000 tonnes.

Working will be undertaken from higher level to lower level. The slope of the benches will be kept 45^0. The road/ track having width of 3m and gradient of 1:20m will be connected to mine faces. The benches will have slope towards SSE side. The soil and interburden will be dumped towards NW side of the pit. The mining faces will advance towards south-eastern direction. The benches upto RL 1187 m will be backfilled by end of the year. The position of benches in this year is shown in Plate -9. The bench wise recoverable reserves, total excavation of soapstone, saleable quantities and balance recoverable reserves at the end of the year is as below.

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1187	1179	103.00	4.10	3.00	8.00	3378.40	2939.21	2939.21	0.00	422.30	3125.02
1184	1176	111.00	3.95	3.00	8.00	3507.60	3051.61	3051.61	0.00	438.45	3244.53
1181	1173	110.00	4.00	3.00	8.00	3520.00	3062.40	3062.40	0.00	440.00	3256.00
1178	1170	109.00	4.86	3.00	8.00	4237.92	3686.99	3686.99	0.00	529.74	3920.08
1175	1167	227.00	6.89	3.00	8.00	12512.24	10885.65	10259.79	625.86	1564.03	10908.40
Total						**27156.16**	**23625.86**	**23000.00**	**625.86**	**3394.52**	**24454.03**

Development activities	Coordinates	Khasra No	Name of Owner/ Owners
Mining pits IV year Pit- 2	N 3304981 to N 3305061 & E 386732 to E 386832	253, 255, 256, 272, 273, 274, 275, 276, 308, 309, 899, 900, 901, 902, 903, 904, 905, 906, 925, 945	Dev Ram, Joga Ram, Nandan Singh, Sadho Singh, Guman Singh
Soil Dump IV year	N 3304975 to N 3304996 & E 386780 to E 386806	924,925,926,930,931,934	Guman Singh, Government Land
Interburden Dump IV year	N 3304966 to N 3304988 & E 386786 to E 386811	930, 932, 934, 937, 938,	Guman Singh, Government Land, Sadho Singh
Plantation IV year	N 3304972 to N 3305060 & E 386730 to E 386835	242,252,253,268,271,273,277,278,280,281,284,285,286,287,306,307,308,309,310,313,873,891,892,895,896	Khal, Rauli, Devram, Jogaram

V Year (2025 –2026): Pit -2

In this year 0.281 ha area will be mined out from Pit-2. About 625.86 tonne balance quantity of soapstone from fourth year will be exploited in this year. Only maintenance of the road will be done in this year. About 24319.78 cum of interburden and about 4584.91 cum of soil will be produced due to advancement of mining faces. About 133m long retaining wall having width 1.0m and height 1.5m will be made along the periphery of waste dump & soil dump. The back filling will be undertaken after winning full depth of the mineral & back filling will not be undertaken over the benches in which mineral exist. In this year net production of soapstone will be 23000 tonnes.

Working will be undertaken from higher level to lower level. The slope of the benches will be kept 45^0. The road/ track having width of 3m and gradient of 1:20m will be connected to mine faces. The benches will have slope towards southern sides. The soil and interburden will be dumped towards NW side of the pit. The mining faces will advance towards SSE direction. The benches upto RL 1175m will be backfilled by end of the year. The position of benches in this year is shown in Plate -10.

The bench wise recoverable reserves, total excavation of soapstone, saleable quantities and balance recoverable reserves at the end of the year is as below.

Bench RL (m)		Face Length	Face Advancement	Bench Width	Bench Height	Volume (cum)	ROM Soapstone (Tonne)	Production (Tonne)	Balance production (Tonne)	Soil (cum)	Interburden (cum)
1175	1167	227.00	6.89	3.00	8.00	12512.24	625.86	625.86	0.00	0	627.17
1172	1164	109.00	6.83	3.00	8.00	5955.76	5181.51	5181.51	0.00	744.47	5509.08
1169	1161	111.00	6.61	3.00	8.00	5869.68	5106.62	5106.62	0.00	733.71	5429.45
1166	1157	115.00	6.43	3.00	9.00	6655.05	5886.02	5886.02	0.00	739.45	6211.38
1163	1154	119.00	6.75	3.00	9.00	7229.25	6393.87	6199.99	193.88	803.25	6542.70
Total						**38221.98**	**23193.88**	**23000.00**	**193.88**	**3020.88**	**24319.78**

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Harish Kainthola
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Development activities	Coordinates	Khasra No	Name of Owner/ Owners
Mining pits V year Pit- 2	N 3304936 to N 3305044 & E 386837 to E 386828	906, 907, 908, 909, 910, 911, 912, 914, 915, 917, 918, 919, 920, 922, 923, 924, 932, 933	Dev Ram, Sadho Singh, Joga Ram, Chanchal Singh, Guman Singh
Soil Dump V year	N 3304988 to N 3305010 & E 386800 to E 386825	930,931,933,934,940,941	Guman Singh, Sadho Singh
Interburden Dump V year	N 3304980 to N 3305002 & E 386806 to E 386831	934, 938, 946, 990, 994	Guman Singh, Sadho Singh, Government Land
Plantation V year	N 3304934 to N 3305061 &E 386833 to E 386847	252,900,901,902,904,905,918, 920,921,923,924,933,939,935,940,941,942,943,946,948,950,951, 953,956,957,959,960,961,962	Rauli, Devram, Sadho Singh, Guman Singh

6.2 Plans and Sections

All plan and sections of working Pits from I to V year are shown in Plates - 6 to 10. Retaining wall will be made around the periphery of the non mining area to protect the slopes. About 193 m long retaining wall will be made along nala, dumping area, along benches and unstable slopes around non mining if any.

6.3 Blasting:

In the leasehold area since the soapstone is bedded, jointed and fractured in nature, soft minerals, its hardness has been considered as 1 on moh's hardness scale. It can be easily mined. Mostly nature of the overburden is silty clayey soil embedded with dolomite & magnesite boulders upto 1m size generally. Therefore blasting may not be needed both in soapstone as well as in overburden.

6.4 Mine Drainage:

The deposit is situated in the Lesser Himalayan region and has a moderate rainfall. The highest is about RL 1210.4m on the north flank of the area, while the lowest RL recorded on the south flank of the area is about RL1102.1m and a general slope of 30^0 is from North to south direction. Water table in this area is very deep ranging from 75 to 90m. No water problem is envisaged in the working pits since the rain water will be coursed through the garland drain to be provided on the upper side of the lease area and drainage on the benches provided on the hillside by slight slopping the benches. The only source of the water shall be the rain water which shall flow along the natural slopes. The lessee has provided five check dams to course the water and control the flow of the scree material into the Nala. The check dams have been proposed to restrict scree material from going to Nala to check further water pollution. There are no water bodies within the lease area.

During first five years, the mine working will be confined in crop/ nap land/civil land of the leasehold area. Water table will not be interfered by the mining operations. Therefore no proposal has been given for disposal of mine water finally discharged

a) Minimum and maximum depth of water table based on observations from nearby wells and water bodies

One perennial spring exists outside the lease area in village Karuli. Practically there is no fluctuation in water table throughout the year.

b) Indicate maximum and minimum depth of Workings.

The proposed bottom level of working pit is expected in pit 1 up to 1130m RL in I year, 1124m RL in II year, 1118m RL in III year and in pit 2 up to 1175m RL in IV year and 1163m RL in V year and water table will not be intersected by mining operations as spring more than 500m away from the proposed working area. The seasonal drainage exists at center at outside the area. Proposed mining area is far away from existing drainage, therefore chances to encounter the water within the working pit shall be nil during next five years.

c) Quantity and quality of water likely to be encountered, the pumping arrangements and places where the mine water is finally proposed to be discharged]

Mine working will not go beyond up to 1118m RL depth in Pit 1 and up to 1163m RL depth in Pit 2 and during five years depth shall be 9m, thus there is no chance to encounter the water table.

c) Describe regional and local drainage pattern. Also indicate annual rain fall, catchments area, and likely quantity of rain water to flow through the lease area, arrangement for arresting solid wash off etc.

Three seasonal drainage flows with in the area & the proposed side of mine workings are far away from the perennial drainage, therefore there will be no chances to encounter the water within the working pits during next five years. Before the commencement of rainy season, all the mined out pit shall be prematurely backfilled so chances of accumulation of rainy water in the mining pit shall be nil during next five years.

6.5 Disposal of waste:

The top soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and stacked separately. The soil intermixed with fragments and interburden rejects are low grade magnesite. Part of these rejects will be utilized in construction and maintenance of retaining walls, parapet walls, check dams and other construction works. About 1265.00 cum of interburden will be used for this task, and remaining interburden about 121335.82 cum will be backfilled.

The quantity of top soil & overburden (Rejects/Waste) to be generated in each year is given below:

Year	Top Soil (cum)	Interburden (cum)	Mineral Rejects (cum)
I	3789.20	21618.94	25408.14
II	4379.08	25913.76	30292.84
III	5291.74	26294.31	31586.05
IV	3394.52	24454.03	27848.55
V	3020.88	24319.78	27340.66
Total	**19875.42**	**122600.82**	**142476.24**

The site for dumping the waste has been selected keeping in mined the ultimate pit limit, proximity to roads and lead from working benches. The proposed dump yards have adequate capacity to accommodate the waste production without rehandling except backfilling. Drainage from the dumps remain natural i.e., water shall be passed under the solid dumps. The built up of waste has been shown on the yearly mining plan and section. The top soil and interburden dump are temporary in nature & when pit will reach the economical depth; all the remaining quantities will be used in backfilling to restore the maximum topography of the area. The location of top soil stack and interburden dump are shown in Plate – 6 to 10.

6.6 Storage and prevention of top soil:

The soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and loaded manually to stack on the dump yard. Stacking will commence at RL 1123m to RL 1133m in first year, RL 1118 to RL 1130m in second year, RL 1113 to RL 1124 in third year, RL 1165 to 1187m in fourth year & RL 1154 to 1175m in fifth year. The spread of stacks will be undertaken through mechanically and manually both & average dump height kept 1.5m. In first year 240 m^2 areas was earmarked for stacking of soil with 1.5m height. In second year it is 260 m^2 areas. Similarly in third, fourth & in fifth year 250 m^2, 270 m^2 and 230 m^2 area have been respectively earmarked for stacking of soil with 1.5m average height. The year wise spread of stack is given below:

Soil stack	I year	II year	III year	IV year	V year
Length	24m	26m	25m	27m	24m
Width	10m	10m	10m	10m	10m
Average height	1.5m	1.5m	1.5m	1.5m	1.5m
Angle of repose	36^0	36^0	36^0	36^0	36^0

6.7 Proposal for reclamation of land affected by mining activities:

The mining will commence from the higher levels and will advance towards lower levels. Intermittent backfilling will commence from the higher levels and subsequently advance towards the lower elevations so that terraced agricultural fields would undertaken in such a manner that original land use will be restored i.e. before the onset of monsoon will be handed over to cultivators for cultivation. The final backfilling will be started once the

ultimate benches are formed and pit reaches the optimum economic depth. The year wise proposal for reclamation is shown in Plate – 6 to 10 enclosed in the Mining Plan.
All recovery of the mineral will be of the saleable grade. The quantum of development and mineral to overburden soil and interburden in the pit is given below:

Year	Overburden soil (cum)	ROM (Tonnes)	Interburden (cum)	Stripping ratio
I	3789.20	20000	21618.94	1:0.78
II	4379.08	24000	25913.76	1:0.79
III	5291.74	24000	26294.31	1:0.75
IV	3394.52	23000	24454.03	1:0.82
V	3020.88	23000	24319.78	1:0.84
Total	**19875.42**	**114000**	**122600.82**	

The closure proposals implemented during the first Vth year period are given below:

A. Mines out land	Crop/*Nap* land (ha)
a) (i) Area already broken up	-
(ii) Area already backfilled	-
(iii) Area already reclaimed	-
b) (i) Additional area proposed to be broken up during first 5 year	1.829
(ii) Additional area proposed to be backfilled	-
(iii) Additional area proposed to be reclaimed	1.829

B. Dump- Soil & Interburden (IB)	Crop/*Nap* land (ha)
(i) Area occupied by dump	Soil- 0.013 IB- 0.012
(ii) Additional area to be covered by dump	-
(iii) Dump area to be covered by protective measures	0.025

C. Plantation	Revenue/*Benap* land (ha.)	Crop/*Nap* land (ha)
(i) Area already covered	-	-
(ii) Area proposed to be covered under plantation in five years	-	0.459

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गुरुप्र0/05/खनन/RQP/2015-16

Proposed land use (till end of life in ha.)

S. No.	Description	Area (ha)	Reclaimed & Rehabilitated till end of last MP/MS period (ha)	To be Reclaimed & Rehabilitated till the end of present plan/ scheme period (ha)	To be Reclaimed & Rehabil-itated till the end of life of mine (ha)	*To be Reclaimed & Rehabil-itated after end of life of mine (ha)	Remarks Area to be reclaimed by the end of lease (ha)
1	Mining (Quarry)	1.829	-	1.829	7.841	-	6.223
2	Waste dump	0.025	-	0.025			0.025
3	Office infrastructure	0.009	-	0.009			0.009
4	Processing plant	-	-	-			
5	Mineral Stack/Processing yard	0.005	-	0.005			0.005
6	Sub grade mineral stacks	-	-	-			-
7	Roads	0.191	-	0.191			0.764
8	Water course/pond/ reservoir	-	-	-			-
9	Unutilized area	5.782		5.782			0.811
	Total	**7.841**		**7.841**			**7.841**

6.8 Measures for dust suppression:

Soapstone is a talcose rock mineral composed of hydrous magnesium silicate. The specific gravity is around 1. Therefore emissions due to mineral handling during mining operation are not much and restricted to the lease area only. Air pollution is caused mainly due to dust generation added with gaseous emission from transportation activities along with mining operation like evacuation, loading, haulage etc. Proper mitigation measures will be practiced during mining activities to control air pollution load below the prescribed limits. Some measures are as follows:

- Use of Personal Protection Equipments (PPE) like dust masks, ear plugs etc. by the mine workers.
- No Blasting will be done.
- Regular water sprinkling on haul roads & loading points will be carried out.
- Development of green belt/plantation around the lease boundary, roads, dumps etc.
- Vehicles carrying mineral will be covered with tarpaulin sheet. This will prevent dust emission.

The existing kachha foot track shall be converted into cemented foot track. Apart from this water sprinkling on haul roads shall be undertaken during dry spell of months to suppress dust. The soil and interburden to be generated a temporarily in nature and all quantities shall be used in premature backfilling before commencement of monsoon as direction by district administration. After over the monsoon the backfilled material shall be rehandled by means of an excavator and dump over existing dump yard secure with toe walls.

6.9 Measures to minimize vibration due to blast and check noise pollution:

Vibration Level (Due to Blasting):

As proposed mining method is opencast and semi mechanised, since mining operations are proposed on a very small scale and excavation activity will be small, without drilling and blasting, hence, there will be no impact on vibration level due to blasting.

Noise Level:

Long term exposure to high noise levels can cause damage to hearing, headache, fatigue and disorders to blood pressure etc. No such disorders have been reported from district Bageshwar mining leases because the exposure to cause of noise is comparatively short and volume of noise is quite low.

The sources of noise are excavation operations and mineral transportation which is limited because of small size of mining operations. To keep the noise level to the minimum, Green Belts shall be provided around the mining area. Opencast mining has been proposed with semi mechanization means. But mining does not include drilling and blasting. Transportation of mineral from mine site to road head will be done manually or with dumper. Hence, noise level due to transportation is negligible.

6.10 Mineral Processing:

Only dressing & breaking is being carried out at pit head to remove waste material. Different grade of mineral & packed in 50kg plastic bags & transported to Haldwani. No Mineral processing to upgrade the mineral shall be carried out.

6.11 Tailing Dam:

No tailing dam is proposed in the soapstone mine.

6.12 Guidelines for scrutiny with respect to mineral beneficiation:

No beneficiation of mineral processing will required for Soapstone mineral. Therefore no such investigations have been conducted.

Except dressing & breaking no beneficiation of mineral processing is required for soapstone mining. The soil coating within soapstone shall be dressed with brush and stacked separately. If any kind of impurities observed within soapstone dumps it shall be broken with hammer, dress manually & stack separately.

6.13 How many time penalties imposed upon lessee against illegal mining: None

6.14 Employment potential/mine management plan:

Employment Potential

The mine manager cum mining engineer should be a graduate mining engineer holding at least second class manager's certificate. The mate-cum-blaster should hold mining mate certificate of competency.

The category-wise employments are given as below:

Manager certificate from DGMS	:	1
Skilled		
Supervisor	:	2
Time Keeper	:	1
Office Assistant/Dispatch Supervisor	:	2
Un-skilled		
Daily wages workers	:	53
Total	:	**59**

The services of following persons/agencies may be retained on part/full time basis.

(i) Geologist
(ii) Mining Engineer
(iii) Environment consultancy agency
(iv) Surveyor

The average production envisaged is 22800 tonnes/year which shall be achieved during plan period which implies that 95 tonnes of production per day considering 240 working days in a calendar year.

Due to past mining experience with in lease area, the OMS varies from 1.5 tonnes to 2.0 tonnes. Considering average OMS 1.8 tonnes, this implies that 53 workers shall be employed to achieve the required production.

6.15 Environment management plan:

Land degradation and ecological disturbances generally occurs in open cast mining. In preparation of mining plan for Karuli soapstone mine of Smt. Janki Rathor W/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. emphasis on environmental protection has been given to minimize the adverse impact on the present environmental status. Opencast method of mining causes some land degradation and disturbs the ecology of the area. While preparing the Environment Management Plan emphasis has been laid on restoring the ecology of the area as much as is possible. This has been made possible by planning the mine workings in the most systematic, safe and scientific manner with due regard to conservation of mineral.

Land use

The collection of baseline data has been carried out from buffer zone and core zone, which includes an area of about 5 km in surrounding the lease area and an area of 500 m surrounding the lease area respectively (Plate No. 2 & 12). Normally in hills the geographical distances become meaningless as one side of the hill has hardly any connection with another side, although separated by a small plan distance. In fact the Core Zone area could be confined to the lease area which may be affected by mining and may have close relationship with reference to socio-economic impact of the area. An electric line with electric pole is passing within the lease area hence due care & mining activity should be restricted around the periphery of electric pole should be taken during the exploitation of the mineral.

Existing land use pattern indicating the area already degraded due to quarrying/pitting, dumping, roads, processing plant, workshop, township etc. in a tabular form is given below:

Name of Land use	Forest Land (ha)	Crop Land (ha)	Grazing Land (ha)	Waste Land (ha)	Revenue Land (ha)	Total (ha)	Indicate land required outside applied area (ha)
(a) Pit & Quarries	-	1.829	-	-	-	1.829	-
(b) Dumps of ore waste & Overburden	-	0.025	-	-	-	0.025	-
(c) Mineral stack	-	0.005	-	-	-	0.005	-
(d) Infrastructure including of office, workshop, plants & road	-	0.200	-	-		0.200	-
(e) Township	-	-	-	-	-	-	-
(f) others (i) Barren land (ii) Crop land	-	5.782				5.782	
Total area	-	7.841	-	-	-	7.841	-
(g) Area backfilled by mine owners	-	1.829	-	-	-	1.829	-
(h) Area afforested by mine owners	-	-	-	-	0.459	0.459	-

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मु0खo / 05 / खनन / RQP / 2015–16

Water regime:

The ground water table in this hilly region is very deep and hence ground water is not interfered in opencast mining. There are seasonal tributaries or stream outside the leasehold area; however, rain water flows down to western slopes towards the valley causing no problem to the habitat.

No old pits show any confined water body. The general surface drainage is controlled by the slope in the area and there is no drainage exists in the leasehold area. Water pollution can result from natural runoff, dissolved chemicals in water that percolates through the soil and human sources, such as agriculture, mining industry, construction, homes and industry. The applied area is basically agriculture/ nap land. There are no specific trees grows within the said area. Very sparsely occurring trees are seen here and there. These are like Tun and Pine, etc. Scattered patches of grass generally Kumaria, Dub etc. are also occupied in the area.

Flora: The area is basically used for agricultural regime. It is therefore devoid of trees concentration zone. Some trees are generally present on shrub or grazing Land. All the mining activities, in future will be mainly concentrated on cultivated fields having sparsely scattered trees. The mining will be performed with semi mechanisation without drilling and blasting, so the existing tree will not be disturbed.

Shrubs: Ghingaru with a few Jhitalu, Kilmora and Hisalu etc. occurs in the depressions.

Grasses: Kumaria, Doob, Shishoona, Gria and Bhawaria.

Fauna: The types of fauna consist of snakes, rabbits, wild cats, fowls and jackals etc found in and around area. Ghoral (A goat like stocky animal), Kakar (barking deer), hares, Stag & Bhalu, black hill partridges, chakor and wild fowls are sometimes sighted in the buffer zone. There is no trace of any major wild life in the area. Domestic animal like cows, buffaloes, goats, ponies etc. are seen in areas close to the villages.

Quality of air, ambient noise level and water

Ambient air

Anthropogenic sources of air pollution due to mining are divided into two categories:

(i) Mobile sources which include automobiles, transport trucks etc.: strictly speaking there will no mobile sources (e.g. trucks etc) of pollution with applied area.

(ii) Stationary sources which include open cast semi-mechanised mining, loading and unloading points, blasting sites, crushing and grinding units of ore, beneficiation plants and power generation plants attached to mines. Here, stationary sources of pollutant include mineral mining, loading/unloading of minerals from pits to dumps etc, and road/ tracks. Dust particles will be the main aberrant sources of pollution of any atmosphere because it is a semi mechanised mining operation. Once the pollutant enters the atmosphere, many interactions occur. Winds then act to transport the pollutants or promote additional mixing.

Most of the pollutants in the ambient air are the fines suspended particles and gases that cannot be seen.

Since the applied area is in remote hilly Lesser Himalayan region without any industry/mechanized operations around and the nearest existing mining block is more than 500m away from nearest road head, the SPM value in the air quality will not exceeded the permissible threshold value. Infect it may much below presently. The small proposed manual mining operation will not cause any significant pollution factor.

Quality of air, ambient noise level and water:

The water for drinking purpose comes from springs or naula. Water quality of nala will not deteriorate as mine working is proposed to be restricted in one pit only. The backfilling and retaining wall at the edge the of reclaim pits will also remote the chances of fine particles to be mix with the nala water.

Climatic Condition:

i) Temperature:

Climatically the area falls in temperate zones with pleasant summer and extremely cold in winters. The area receives moderate snowfalls during winters between Decembers to February. The maximum temperature goes upto $35^0$to 36^0C while the average minimum temperature goes above upto 2^0 C to 4^0 C in the months of January & February.

ii) Relative Humidity:

The relative humidity shows rise from June to February with highest values in the month of January and decreases it reaches lowest during April and May.

On the basis of past experience reveals that the maximum average humidity in the month of January is about 92.30% while the minimum average humidity is about 36.30% during month of April.

iii) Rainfall:

The area receives 70% on an average rainfall in between June end to mid September. Average rainfall from June to September comes about 140mm. The maximum rainfall was received 1120mm. during the month of July & August while the minimum rainfall was recorded will during the months of January & February & it varies 10mm to 15mm.

Human settlements:

Distribution of human settlements is shown on flanks of buffer zone of lease hold area in Key Plan. The people are Kumauni's in surrounding area and their general occupation is seasonal agriculture growing crops of wheat, rice, soyabean, urad, bhang etc. They also make baskets, chatai, rope etc from the fibres of bhang. There is no industry in and around the area. People are dependent on local agriculture product and import other needs from outside which is brought through mules. Any venture such as soapstone mine will provide the local people considerable relief through employment, better transport facilities for

material on returning mules after unloading soapstone and help them to improve the lifestyle.

Public buildings, places of worship and monuments

No public building, places of workshop & any bind of Historical monuments exists within the lease area.

- **Indicate any sanctuary is located in the vicinity of leasehold**

  The lease area does not fall under notified area under water (Prevention & control of Pollution), Act 1974. Further there is not any National park/ Sanctuary with in 10km radius of lease area.

Impact Assessment: Attach an Environmental Impact Assessment Statement describing the impact of mining and beneficiation on environment on the following:

i) Land area indicating the area likely to be degraded due to quarrying, dumping, roads, workshop, processing plant, tailing pond/dam, township etc.

The impact on land form or physiography will be land use on the hilly terrain will undergo radical changes due to the open cast mining.

During five years mining, 1.829 ha land will be degraded due to mining & allied activities.

The breakup of the land to be affected during the five years and end of conceptual period of due to mining operation is given below:

Activities	End of 5 years (ha.)	Area occupied (Ha) End of conceptual period
Mining Pits	1.829	6.223
Interburden dumps	0.012	0.012
Soil stack	0.013	0.013
Foot track/ Haul road	0.191	0.764
Workshop	Nil	Nil
Retaining wall/Check dams	0.002	0.01
Total	**2.045**	**7.022**

ii) Air quality:

It is proposed that mining shall be carried out opencast semi-mechanized. Mineral shall be filled into 50 kg plastic bags & manually transported to road side. Excavator shall be deployed as & when required & its deployment shall be 4-5 hours 3-4 days in a week. Due to limited movement of an excavator, small quantities of air borne dust shall be generated & it shall be suppressed due to water sprinkling on haul roads. However water sprinkling on the foot track shall be carried out during summer month to suppress the dust. However in future air monitoring shall be carried out as per CCOM Circular. 3/92. No air quality shall be deteriorated due to mining activities.

iii) Water quality:

The surface drainage system in the area is almost seasonal. The flow in the natural drain is observed only immediately after the rainfall and then these nala become entirely dry. Drinking water quality will not deteriorate by mining and allied activities. However the drinking water can be tapped suitably upstream of the mine area and brought by pipes for use. The drinking water in the mine area and near the habitation will thus be solved.

The runoff is that part of rainfall which does not infiltrate the soil cover completely and flows over the soil surface to natural drains existing in the area. Some water of rain easily enters the soil surface and the get stored in pores of the soil, rest remaining the runoff. The impact on water quality will be confined to increased suspended solids during rain. The perennial drainage exists toward southern flank of the area from flows north to south direction. 5 check dams having dimension of 8m to 14m x 2.0m x 1.0m shall be erected across the drainage to control siltation during rainy seasons.

iv) Literacy:

The literates show a vide fluctuation in their numbers. However, the literacy is less in case of females.

v) Occupation:

Agriculture is the main occupation in this area. Study reveals that within 5km radius of lease area, 70% to 80% population is engaged in the agriculture. Percentage of females engaged in agriculture is higher than that of males.

Disparity of agricultural land holding is less. Yield of agriculture produce is very poor to sustain the available heads. Consequently problem of unemployment and frustration amongst the youth can be noticed in the area.

vi) Cropping pattern:

Maize is grown at higher altitudes along northern slope of hills, whereas paddy cultivation is practiced in the low lying areas, where water is available in abundance. Wheat is also grown in the area and yield of wheat is rather sufficient.

vii) Noise levels:

The mining does not include even drilling and blasting. Transportation from mine site to road head will be done by manually or by mules. The road is inside the proposed working site. Hence, noise level due to transportation may occur.

viii) Vibration levels (due to blasting):

As proposed mining method is opencast mechanized without drilling and blasting, hence, impact on this aspect will be insignificant.

ix) Water regime:

Surface Water:

The topography of the area will not be largely changed in view of the proposed concurrent reclamation. During the mining activity period, there is a possibility of mixing of freshly disturbed material with the rain water. To take care of such happenings, retaining walls have been provided along the backfilled pits and toe walls along the soil and interburden dumps.

Ground Water:

The water table in hills is usually very deep and does not have any relevance with mining activities. However, concurrent restoration to original topography & it will not be disturbing the ground water.

Programme of Afforestation:

During next five years plantation shall be carried out over with in 7.5m barrier zone of the lease area.

i) Conservation

Stabilising and revegetation the de-vegetated areas viz. debris, dumps and slopes which get degraded due to rolling stones, etc. are important for conservation of soil, regulation of surface and underground water and for rehabilitation of wild -life habitat. These generally are extracting operations and need planting in various phases by select species. Protective engineering measures, in conjunction, become necessary.

ii) Aesthetics

Mining operations open ugly sights of dug-out slopes and rolled debris, which in the hills are visible from long distances. It is desirable to screen away such sights so that inevitable unpleasantness of the mining operations is not exposed to public eyes. Well planned plantation of ornamental or fruit trees improved the aesthetic value of the land.

iii) Production

Trees and shrubs produce timber, fodder, fuel, fruits, fibres, etc. for direct use of village community. In the area several useful varieties of fruit trees and shrubs can be grown. Examples are: peach (Khubani), Peas (Nashpati), Apricot (Aaru), Plum, Kaphal, etc. among trees and Hisalu and Kilmora amongst shrubs. Initially, few colonisers such as Chilmora (Rumexhastatus) and few local grasses will be planted to initiate biological activities in the land. Ultimately, the reclaimed land will be again used for agriculture.Based on the above consideration and Mining plans, the following afforestation programme has been worked out:

a) Mining Benches:

The mining is confined to the agricultural land. The mining benches will be back-filled so that mined out area shall be retained to its maximum original topography. Therefore, no

efforts for afforestation on the mining benches would be done as the land will be used for agriculture, purpose. Besides this individual land owner will not allow plantation in their respective lands are it causes hindrance in agriculture.

b) Dump Areas:

The dumps are temporary structures. They would ultimately be used for back-filling and, therefore, will gradually be removed in due course of time; hence, no afforestation would be undertaken over dumps.

c) With in the area:

7.5m barrier zone is available for plantation therefore plantation shall be carried out over it. The lessee planted native species for plantation.

Technique of Plantation:

a) As quick closing of canopy is necessary, the spacing adopted should be 3m x 3m.

b) Soil working:

75 cm x 75 cm pits should be dug in March April. Overburden soil and well rotten farmyard manure (5Kg per pit) should be mixed well with the dugout soil and refilled by the third week of June. The level of refilled soil should be about 15 cm above the general ground level. Care should be taken to ensure that the rock at the bottom of the pit should be thoroughly cracked to ensure easy penetration of roots of the seedlings.

c) Planting:

Only strong healthy nursery raised plants should be used to ensure success. The saplings should be dug out from the nursery with sufficient earth around the roots. The earth should be filed with grass. Plants raised in the polythene container are best. Transport to the site should be done in baskets to avoid damage of the roots. Damaged plants should be sorted out.

d) Fertilizer and Insecticides:

Chemical fertilizer at a rate of 15 gm per plant should be added at the time of planting NPK mixture is sufficient to promote growth.

Plantation during next five years shall be undertaken over the 7.5m barrier zone.

About 10 gm of insecticide, B.H.C. 10 percent, should be sprinkled on the sides and base of the pit to prevent damage by insect larvae. Another 10 gm of insecticide should be mixed with the soil before refilling.

e) Trees:

Peach (Khumani), Pears (Nashpati), Apricot (Aaru), Faliyat, Surai etc.

f) Shrubs:

Kilmora, Hisalu, etc.

The year wise plantation is given below:

Year	Plantation in between lease boundary and UPL		Plantation in Van Panchayat and forest land	Total no. of sapling
	Area (ha.)	No. of saplings		
2020-21	0.043	43	172	215
2021-22	0.065	65	260	325
2022-23	0.177	177	708	885
2023-24	0.135	135	540	675
2024-25	0.039	39	156	195
Total	**0.459**	**459**	**1836**	**2295**

The year wise plantation schedule is shown in **Plate No. 6 to 11.** Total 459 sapling will be done in UPL & 1836 sapling in Van Panchayat and forest land after taking due permission from concerning authority.

Post Plantation Care:

This will include the following measures:

- Protection from grazing and fire.
- Watering at least once a week during dry spells.
- Manuring
- Weeding six times in the first year and twice a year, during the subsequent two years and soil working.
- Replacement of causalities.
- Protection from pests.
- This post plantation care will be undertaken at least for five years after the plantation.

Treatment and disposal of water from mine:

Mining activities will not touch the water table. However due to intermittent rainy shower, some quantities of water will accumulate in the pit & it will be pumped out and channelize through the slopes.

No toxic elements will be preserved in the water hence treatment of water is not required.

Measures for mining adverse effects on water regime:

The mining has been proposed in such a way that there will be no adverse effect on water regime. Toe walls will be provided along the backfilled pits. This will prevent escaping of fine material along with the rain.

Protective measures for ground vibration/air blast caused by blasting:

As the proposed method of mining is open cast mechanized without drilling and blasting, the impact on this aspect is negligible.

Measure for protecting historical Monuments and for rehabilitation of human settlement likely to be disturbed due to mining activity:

No such feature exists within the mining would be confined to the agricultural land which is far away from the villages. Due to non drilling and blasting there is no adverse effect on this account.

Socioeconomic beneficiate out of mining:

The scale of operation is limited with 90% local employment. Hence some benefit to the local community will occur on this aspect. Besides the direct and indirect employment, better communication will also add to the positive contribution.

Proposed mine working is in agricultural land and residential area is far away, therefore, no impact of mining on human settlement shall be arising.

7.0 NOC from land over should be provided along with Khasra map for the area where mining proposed for five years.

NOC has already been taken from landowner (Annexure-5)

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RQP/UKGMU/No.012/YEAR2019

Harish Kainthola
मु0खा0/05/खनन/RQP/2015–16

KARULI SOAPSTONE MINE

Village – Karuli, Tehsil & District- Bageshwar, (Uttarakhand)
Smt. Janki Rathor w/o Shri M. S. Rathor, House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital

Ref. No. **Date-**

CONCENT LETTER/UNDERTAKING/CERTIFICATE FROM THE LESSEE

Mining plan in respect of **Karuli Soapstone Mine** over an area of **19.879 ha** out of **28.264 ha (demarcated area- 7.841ha)** in village Karuli, Tehsil & District- Bageshwar, (Uttarakhand) for LOI No. 1130/VII-A-1/2020/01(4)/20 Dehradun, was obtained on dated 20.11.2020 for a period of 50 years has been prepared by RQP (Shri Harish Kainthola & Shri Kailash Chandra).

This is to request the **Director, Geology and Mining Department, Uttarakhand Dehradun** to make any further correspondence regarding any correction of the Mining plan with the said recognized person as his address below:

Address of RQP : 3/1, Ekta Enclave, Near Hotel Sun Park, GMS Road, Dehradun (U.K).

Phone No : 09412028745

E mail : Kaingeotech2147@rediffmail.com,

We, hereby undertake that all modifications/updating as made in said mining plan by the said recognized person be deemed to have been with all our knowledge and consent and shall be acceptable on us and binding in all respects.

It is certified that Mining Plan with Progressive Mine Closure Plan **Karuli Soapstone Mine**) of Plan **Karuli Soapstone Mine** of Smt. Janki Rathor W/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital over an area of 7.8410ha complies with all statutory rules, regulations, orders made by Central or State Govt., statutory organization, Court etc. which have been taken into consideration & wherever any specific permission is required the lessee will approach the concern authorities.

The information furnished in the mining plan with Progressive Mine Closure Plan is true & correct to the best of my knowledge and records.

"The Provision of **Mines, Act, Rules and Regulations** made there under have been observed in the mining plan over a demarcated area of 7.8410 hectares in Bageshwar district in Uttrakhand state belonging **to Karuli Soapstone Mine**, and where specific permissions are required, the lessee will approach the **D.G.M.S**. Further, standards prescribed by **D.G.M.S.** in respect of miners' health will be strictly implemented".

I authorize RQP Shri Harish Kainthola & Shri Kailash Chandra to submit mining plan for approval and collect the approved copy of mining plan on my behalf

Place : Bageshwar **Sign of Lessee:**

Date : **(Karuli Soapstone Mines)**

KAINGEOTECH
(Engineering Geological - Geotechnical Solutions & Consultancy in Underground & Surface Excavation, Dams, Slope Stability, Remote Sensing-GIS, Site Identification, Feasibility Investigation, DPR, Mining Plan, Environment Clearance, Rock & Soil Testing, Hydrology, Surveying.)
M:+91-9411628243, (O):0135-2780540 | E-mail: kaingeotech@gmail.com, kaingeotech@gmail.com | Website: www.kaingeotech.in

Ref: KGT-L-/228/DDN2021-22

Date: 23/04/2021

CERTIFICATE FROM RQP

The provisions of the **Uttarakhand Minor Mineral Concession Rule, 2001** have been observed in the preparation of the Mining Plan for **Karuli Soapstone Mine** over an area of **19.879 ha** out of **28.264 ha (demarcated area-** 35.080ha) of of Smt. Janki Rathor W/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and Minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital has got LOI No. 1130/VII-A-1/2020/01(4)/20 Dehradun, was obtained on dated 20.11.2020 in village– Karuli, Tehsil & District- Bageshwar, (Uttarakhand) and whenever specific permission are required, the lessee will approach the concerned authorities of **Director, Geology and Mining Department, Dehradun.**

The information furnished in the Mining plan is true and correct the best of our knowledge.

(Kailash Chandra) RQP
RQP/UKGMU/NO 012/Year 2019

(Harish Kainthola) RQP
मु0खा0/05/खनन/RQP/2015-16

Date: 23/04/2021.

Place: Dehradun

PROGRESSIVE MINE CLOSURE PLAN (PMCP)

1. INTRODUCTION

Name of Lessee & Address: Smt. Janki Rathor W/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. Mobile No-8476037777, Email Address –

Location: The area is located on Survey of India Toposheet No. – 53 O/13 in latitude 29°52'2.81"N to 29°52'15.56"N and longitude 79°49'37.59"E to 79°49'50.57"E. The applied area is occupied by single block and is bounded by 1, 2, 3, 4, 5, 6, 7, 8 & 9 boundaries pillars. Coordinates of pillars are shown in Surface plan **(Plate No. – 3)**

Extent of Lease area: 19.879 ha out of 28.264 ha. Demarcated area -7.841ha

Type of lease area: 19.879 ha out of 28.264 ha. Demarcated area - 7.841ha. falls in *nap*/agricultural.

Present land use pattern: The existing land use is agricultural/nap/civil land and is given below:

Forest		Non- Forest		
				Area (ha)
Forest (specify)	None	1.	Category 1(क) Jotdar land	6.584
		2.	State Govt/ Civil. Land	
		a)	Land under Category 7(क)	0.425
		b)	Category 9(3)ख	0.658
		3.	Land for public use	
		a)	Land under Category 10(1)	0.157
		b)	Land under Category 10(2)	0.017
			Total	**7.841**

1.1 Reasons for closer: Preparation of progressive mine closure plan has become mandatory and is being submitted under Rule 34(4) of Uttarakhand Minor Mineral Concession Rule, 2001.

1.2 Statutory obligation: As per rule for every fresh grant of mining lease, a progressive mine closure plan is required to be submitted and the progressive mine closure plan is being submitted in accordance with the guide lines issued by Office Order no. 1762 / खनन / गौण खनिज–माईनिंगप्लान / 26 / भू0खनि0ई0 / 2015–16 dated 31 October 2015.

KAINGEOTECH
Geological, Geotechnical, Mining & Environmental Consulting

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RQP/UKGMU/No.012/YEAR2019

Harish Kainthola
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1.3 Closer plan preparation

a) **Name and Address of the applicant:**
Smt. Janki Rathor w/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and Minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. Mobile No. - 8476037777. Email Address-

b) **Name, address and** :

Shri Harish Kainthola,
KainGeotech
3/1 Ekta Enclave Way to Seemadwar- ITBP,
Opposite Hotel Sun Park Inn,
GMS Raod, Dehradun - 248001 (Uttarakhand)
Telephone (Cell): 08077856332.
Dehra Dun- 248008 (Uttarakhand)
E-mail- Kain_geotech2147@rediffmail.com, hkainthola@gmail.com
Mobile No. - 09412028745, 09412058990 (Office)
Registration No. – मु0ख0/05/खनन/RQP/2015-16
RQP/DDN/141/2002-A

Kailash Chandra,
3/1 Ekta Enclave Way to Seemadwar- ITBP,
Opposite Hotel Sun Park Inn,
GMS Raod, Dehradun - 248001 (Uttarakhand)
Telephone (Cell): 08755182584.
E-mail – ksati84@gmail.com
Registration No. - RQP/UKGMU/NO 012/Year 2019)

c) **Name of the executing agency:** Star Mines and Minerals, (Smt. Janki Rathor w/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and Minerals House No. 1516,Savitri Colony, Haldwani, Distt. Nainital.

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2. Mine description:

2.1 Geology:

The applied area and its surroundings are constituted in part, by Gangolihat Magnesite sequence. The local lithological sequence is as follows:

- Upper Carbonates
- Middle Talcose Phyllite
- Lower Carbonates

In the applied area and its surrounding consists of Gangolihat magnesite. This rock unit contains magnesite, talcose phyllite and talc lenses etc.

The Upper Carbonates Zone contains magnesite and sporadic magnesite, the Middle Talcose Phyllite Zone contains the talc in pockets and lenses, whereas the Lower Carbonate Zone contains magnesite intercalated with phyllite/ talcose phyllite. Pockets/ lenses or veins of soapstone also occur within carbonates of Gangolihat Magnesite.

The applied area lies in the village Khuldoari Baldoari which is located almost on south-western sloping part of small hill. Both overburden and outcrops of soapstone are present in exploratory opening, magnesite boulders occur on the surface as well as intermixed with soapstone in the applied area. The lithounits found in the project area are:

Overburden: Almost whole block of the applied area is covered with overburden material. This overburden comprises grey to brown to dark brown, fine to medium grained silty-clayey soil. Small fragments of soapstone and magnesite are also present in this soil. Thickness of this overburden varies from 0.9 to 1.5 m.

Soapstone and magnesite: Intermixing of soapstone [$Mg_3Si_4O_{10}(OH)_2$] with magnesite occur below the soil cover. Mostly this soapstone or talc is highly prone to easy weathering and erosion due to its softness and thus its outcrops are rare. In shallow depth soapstone is massive to highly bedding and shows brightness/whiteness characteristic which generally varies from medium to high. At places talc pockets are crushed and crumbled due to association with shear zones present in the area. In the applied area soapstone is fine grained, off-white to white, foliated and sometimes powdery due to crushing. In specimens or fragments it shows flexibility in edges due to thinness and trimming. Overburden comprises magnesite boulders intermixed with soapstone. This intermixed magnesite boulders in soapstone are about 60%.

Structural features

The regional and local structural features as could be deciphered in the applied block are as follows:

The algal stromatolites are absent in this area. Regionally they have been reported to be significant in interpreting reversal of Upper and Lower Carbonate dispositions.

(i) The typical bedding dip/ strike are not seen within the applied area, not even clear cut carbonate bands are exposed presently.

(ii) The cleavage/ foliation/ banding attitudes of soapstone/ talcosephyllite units vary as follows:

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General Strike	Dip Amount	Dip Direction	Attitudes
N245^0 to N 275^0	30^0 - 35^0	N 155^0 - N 185^0	Bedding
N240^0 to N 250^0	40^0 - 50^0	N 150^0 - N 160^0	Bedding
N 030^0 to N 050^0	50^0 - 80^0	N 140^0 to N 160^0	Joint
N 050^0 to N 340^0	60^0 - 75^0	N 320^0 to N 070^0	Joint
N 80^0 to N 110^0	40^0 - 55^0	N 200^0 to N 170^0	Joint

The rocks found in the area in general seems to have undergone the more than one phases of tectonic activity. The upper and lower carbonates zones of Gangolihat Magnesite seem to be inverted. Rocks/ minerals in the area are crushed and sheared. Local trend of magnesite outcrops and talc pockets show the dip towards valley side i.e. towards southern side. The bedding plane dips towards SSE and SE direction with amount of 30^0 to 50^0. General strike direction varies towards N240^0 to N275^0.

Topography:

This area lies on southern slope of a hill in a mountainous terrain of rough and rugged topography. The adjacent area is drained by three seasonal *Rollis/Nalas*. The applied area forms a transverse ridge of ending southern slope in the valley. The area has sloppy undulating surface and at places flat gentle sloping cultivated land also. The highest RL is about 1210.4m on the northern side of the applied area, while the lowest RL recorded on the southern side of the applied area is about 1102.1m. General slope of the lease area is 10° - 30° in southern direction.

The surface plan showing topographical features is given in **Plate No. 3.**

(i) Regional Geology

The area forms the part of Calc zone of Tejam and Pithoragarh. According to Prof. K.S. Valdiya (Geology of Lesser Himalaya, 1980) and D. K. Banerjee et. al. (Him. Geol., Vol. 5, 1975) the lithostratigraphic sequence of this area is as follow:

Pithoragarh Formation

Group/ Formation	Lithology
Berinag Formation	Quartzite, Meta quartzite, Conglomerate, Phyllite
----------Unconformity ----------	
Gangolihat magnesite	Magnesite, dolomitic soapstone with algal structures. Magnesite with talcose phyllite intercalations
----------Unconformity----------	
Sor Slate	Slate, Phyllite, subgrawake

In this region, rocks of Pithoragarh Formation occur. The development of algal stromatolite in carbonates occurrence or magnesite is a common associate of the carbonates. The Calc-Zone rock units are well known for their structural dispositions (windows, half windows in Lesser Kumaon Himalaya) for stromatolites and minerals (magnesite, soapstone and minor metallic occurrences). The above sequence as observed in this region is considered to be an inverted one. Soapstone pocket occur within carbonates of Gangolihat Dolomite.

(ii) **Local Geology:**

Alluvial Cover:

A thin layer of brownish colour of soil exists in the whole area. The thickness of soil varies from 0.40 m. to 0.60 m. having an average thickness of 0.50m.

Soapstone bearing with low grade Magnesite:

The soapstone mineral in Kumaon Himalaya is an alteration products of Soapstone occurs as pockets and sometimes confined to the upper part of the calcareous zones with. The mineral body occurs in irregular shape & size. The foliation in the soapstone trending 305^0 to 310^0, amount of dip varies 40 deg. to 45 deg. and dip direction varies 35 deg. to 40deg.

Scattered habitation exists towards north east of lease area & it is outside lease area. 50m barrier zone from habitation has been considered as G3 axis & all quantities of soapstone 3m below ground surface has been considered under inferred mineral resources & . The area was explored with the help of two mining pits in scattered manners. Due to past mining the pits were exposed up to depth of 3.0 m. to 8.0 m. and soapstone persists in depth. The pits were dug at different levels in the agricultural field & most of the pits have temporarily backfilled/reclaimed. On this assumption, 12m depth has been considered as proved category, 6 m. depth below proved category as probable. The soapstone occurring in these area is weakly foliated, fairly compact, fine grained white to off white in colour with its characteristic soapy feel.

Low Grade Dolomitic Rock: Low grade dolomitic rock is exposed towards foot wall side of pit E-3. It is fine to medium grained, compact & massive well jointed & light grey to dark grey in colour. The veinlets of quartz are also seen across the bolding plane.

The Geological Map in the scale of 1:2000 is shown in **Plate No. 4.** Geological section is deposited in **plate no.5.**

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2.2 Reserves:

The summary of geological reserves is given below:

CATEGORIZATION OF GEOLOGICAL RESERVES

UNFC CATEGORY: 111

Proved Geological Reserves

Section	Area (m^2)	Strike Influence (m)	Volume (Cum)	Mineable Reserves (in Tonnes)	Blocked Reserves (in Tonnes)	Total Reserves (in Tonnes)
LB to A-A'	1695.31	21.53	36493.81	37953.57	7458.05	45411.61
A-A' to B-B'	2119.137	40.18	85148.81	88554.76	17401.41	105956.17
B-B' to C-C'	1758.14	49.17	86441.09	89898.74	19488.06	109386.79
C-C' to D-D"	2117.61	47.90	101438.77	105496.32	19591.00	125087.31
D-D' to E-E'	1515.60	41.82	63386.81	65922.28	14925.41	80847.69
E-E' to F-F'	1794.05	34.81	62457.61	64955.91	19435.91	84391.82
F-F' to G-G'	1323.52	35.80	47376.81	49271.88	17121.70	66393.58
G-G' to H-H'	1243.40	36.19	44997.12	46797.00	10681.60	57478.60
H-H' to LB	638.06	24.56	15668.93	16295.69	7602.35	23898.03
	14204.82		**543409.75**	**565146.14**	**133705.47**	**698851.61**

Probable Geological Reserves

Section	Area (m2)	Strike Influence (m)	Volume (Cum)	Mineable Reserves (in Tonnes)	Blocked Reserves (in Tonnes)	Total Reserves (in Tonnes)
LB to A-A'	929.84	21.53	20015.99	20816.62	9386.91	30203.53
A-A' to B-B'	1162.30	40.18	46702.09	48570.17	21901.91	70472.08
B-B' to C-C'	950.46	49.17	46730.48	48599.70	24195.87	72795.57
C-C' to D-D"	1191.39	47.90	57070.41	59353.23	23995.45	83348.68
D-D' to E-E'	813.95	41.82	34041.57	35403.23	18451.75	53854.98
E-E' to F-F'	926.86	34.81	32267.28	33557.97	22466.37	56024.34
F-F' to G-G'	652.97	35.80	23373.86	24308.82	19859.55	44168.37
G-G' to H-H'	709.71	36.19	25683.43	26710.77	11586.38	38297.15
H-H' to LB	282.56	24.56	6938.89	7216.44	8677.07	15893.52
	7620.02		**292824.00**	**304536.96**	**160521.27**	**465058.22**

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Blocked Reserves of Soapstone
Feasibility mineral Resource (211)

Section Line	Section Area (m^2)		Strike Influence (m)	Volume (Cum)		Blocked Reserves (Tonnes)	
	Blocked in (UPL)	Blocked Under 45°		Blocked in (UPL)	Blocked Under 45°	Blocked in (UPL)	Blocked Under 45°
LB to A-A'	155.04	178.10	21.53	3337.34	3833.859	3470.83	3987.21
A-A' to B-B'	193.79	222.63	40.18	7786.82	8945.311	8098.29	9303.12
B-B' to C-C'	181.05	200.08	49.17	8901.51	9837.002	9257.58	10230.48
C-C' to D-D"	175.56	217.68	47.90	8409.90	10427.6	8746.29	10844.70
D-D' to E-E'	179.12	164.03	41.82	7491.23	6860.124	7790.88	7134.53
E-E' to F-F'	208.91	327.90	34.81	7273.00	11415.37	7563.92	11871.99
F-F' to G-G'	197.41	262.50	35.80	7066.55	9396.624	7349.21	9772.49
G-G' to H-H'	191.28	92.53	36.19	6922.07	3348.703	7198.95	3482.65
H-H' to LB	192.96	104.71	24.56	4738.61	2571.337	4928.15	2674.19
Total	**1675.12**	**1770.16**		**61927.02**	**66635.93**	**64404.10**	**69301.37**

Pre-Feasibility mineral Resource (222)

section Line	Section Area		Strike Influence	Volume (Cum)		Blocked Reserves (Tonnes)	
	Blocked in (UPL)	Blocked Under 45°		Blocked in (UPL)	Blocked Under 45°	Blocked in (UPL)	Blocked Under 45°
LB to A-A'	102.93	316.36	21.53	2215.73	6810.1425	2304.36	7082.55
A-A' to B-B'	128.66	395.45	40.18	5169.83	15889.693	5376.63	16525.28
B-B' to C-C'	121.06	352.14	49.17	5951.83	17313.431	6189.90	18005.97
C-C' to D-D"	117.55	364.11	47.90	5630.93	17441.619	5856.17	18139.28
D-D' to E-E'	119.58	304.64	41.82	5001.06	12741.008	5201.10	13250.65
E-E' to F-F'	139.10	481.41	34.81	4842.69	16759.59	5036.40	17429.97
F-F' to G-G'	132.91	400.55	35.80	4757.73	14337.992	4948.04	14911.51
G-G' to H-H'	128.01	179.84	36.19	4632.47	6508.2819	4817.77	6768.61
H-H' to LB	128.82	210.93	24.56	3163.39	5179.9525	3289.92	5387.15
Total	**1118.62**	**3005.44**		**41365.66**	**112981.71**	**43020.29**	**117500.98**

2.3 Mining method:

The mining will be done semi-mechanized way in open cast method in quite a systematic manner by forming 1.5m high benches. However, there may be minor variation

in the width and height which the lessee will keep on mending. The top soil and interburden to be scrapped with the help of JCB Machine, dozer, shovels, pickaxe, spade & crowbar and will be stacked separately in dump yard located near the working pit. The extracted mineral is properly sorted out at the mine site. Mining work is going on at 10 benches. While crow bars are sometimes used to dislodge the mineral. The pit will be developed during first five year and mining work will take place in crop/ *nap/civil* land only. The slope of the faces will be kept 60^0-65^0 and the ultimate slope of the pit will remain 45^0.

Developmental work will be done by construction of road/track to different working benches, removal of top soil and interburden. The interburden generated during mining will be separately stacked and places shown within the applied area which will be backfilled. The local people will be used for removal of mineral to the nearest road point i.e. 'BerinagMotor road' from where the minerals will be transported by trucks to Haldwani. The slope of track may vary from 1:8 to 1:20. Each mining face will be connected by track/road having width 3.0m.

The mining is confined in the applied area and mining benches of the pit will be backfilled to retain its original topography therefore the efforts for afforestation would be done inside the applied area in between lease boundary and UPL, about 0.094ha area will be covered by 94saplings in three year and by the end of the lease period 608 saplings will be planted. 7.5 m un-mined barrier will be maintained all along the lease boundary and vegetation growth generated on such boundary to isolate mining from rest of the area Plate -11.

(i) Existing Method of Mining:

It is a fresh mining lease and mining is proposed open cast manual mining. Mining is being carried out with formation of benches. The soil is scrapped manually and is mixed with interburden material and dumped near the working pits. Below the soil, soapstone is found which is intermixed with Magnesite boulder and magnesite has been considered as interburden. The soapstone is exploited with the help of pickaxe, crowbar, chisels & spade. Sorting and sizing is being carried out manually at the pit head. Different grade of soapstone is filled into 50 Kg plastic bags and transported up to the PWD road by mules.No drilling and blasting is being carried out for the exploitation of soapstone. Except sorting & dressing no other means of beneficiation is being carried out within the lease hold.

The details of mining pit & dump lying in various *khasra* number & its ownership/occupancy is given below:

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Mining Pits

Mining pits	RL	Coordinates	Khasra No	Name of Owner/ Owners
I year Pit-1	1127-1133	N 3304762 to N 3304934& E 386874 to E 386851	927, 943, 962, 971, 972, 973, 975, 976, 977, 989, 990, 991, 1049, 1115, 1116, 1117, 1119, 1120, 1121, 1122, 1123, 1120, 1121, 1122, 1123, 1124, 1126, 1127, 1128, 1129, 1130, 1132, 1133, 1134,1137, 1138, 1142, 1144, 1146 , 1147, 1150, 1151, 1153, 1154, 1155, 1159, 1164, 1165, 1166, 1168, 1191, 1625, 1626	Guman Singh, Sadho Singh, Keshar Singh, Ram Singh, Dhan Singh, Kundan Lal, Bhupal Singh, Balwant Singh, Bachai Singh, Rauli, Prem Singh, Jagdish Singh
II year Pit-1	1121-1130	N 3304713 to N 3304900 & E 386774 to E 386881	950, 1049, 1113, 1115, 1116, 1117, 1119, 1121, 1122, 1123, 1126, 1128, 1130, 1133, 1134, 1135, 1137, 1138, 1139, 1142, 1143, 1144, 1146, 1147, 1148, 1154, 1157, 1158, 1159, 1160, 1161, 1162, 1168, 1482, 1489, 1600, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1642, 1645,	Rauli, Keshar Singh, Ram Singh, Dhan Singh, Kundan Lal, Guman Singh, Bhupal Singh, Balwant Singh, Bachai Singh, Sadho Singh, Rauli, Balwant Singh, Jagdish Singh, Joga Singh
III year	1115-	N 3304703 to N	1121, 1122, 1123,	Kundan Lal,

Pit- 1	1124	3304856 & E 386822 to E 386896	1139, 1148, 1157, 1158, 1159, 1160, 1161, 1162, 1199, 1482, 1484, 1487, 1488, 1489, 1497, 1593, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1608, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1627, 1628, 1629, 1633, 1634, 1635, 1642, 1644, 1645,	Balwant Singh, Bhupal Singh, Ram Singh, Rauli, Bachai Singh, Ram Singh, Keshar Singh, Dhan Singh, Jagdish Singh, Joga Singh, Kundan Singh
IV year Pit- 2	1172-1187	N 3304981 to N 3305061 & E 386732 to E 386832	253, 255, 256, 272, 273, 274, 275, 276, 308, 309, 899, 900, 901, 902, 903, 904, 905, 906, 925, 945	Dev Ram, Joga Ram, Nandan Singh, Sadho Singh, Guman Singh
V year Pit- 2	1160-1175	N 3304936 to N 3305044 & E 386837 to E 386828	906, 907, 908, 909, 910, 911, 912, 914, 915, 917, 918, 919, 920, 922, 923, 924, 932, 933	Dev Ram, Sadho Singh, Joga Ram, Chanchal Singh, Guman Singh

Soil Dump

Soil Dump	Coordinates	Khasra	Name of Land owner
I Year	N 3304871to N 3304892 & E 386757 to E 386777	869, 870, 871, 1001, 1002, 1003, 1004	Jogaram, Government Land
II year	N 3304888 to N 3304914 & E 386768 to E 386787	869,871,913,916,927,999,1000,1001	Jogaram, Chanchal Singh, Government Land, Guman Singh
III year	N 3304914 to N 3304935 & E 386778 to E 386793	916,927,928,934,936,937,943,990,992	Government Land, Guman Singh, Sadho Singh
IV year	N 3304975 to N 3304996 & E 386780 to E 386806	924,925,926,930,931,934	Guman Singh, Government Land
V year	N 3304988 to N 3305010 & E 386800 to E 386825	930,931,933,934,940,941	Guman Singh, Sadho Singh

Interburden Dump

Interburden Dump	Coordinates	Khasra	Name of Lease Holder/Holders
I year	N 3304862 to N 3304888 & E 386766 to E 386786	871, 999, 1000,1001, 1002, 1003, 1004	Jogaram, Government Land
II year	N 3304884 to N 3304904 & E 386777 to E 386795	871, 913, 916, 917, 990, 992, 998, 999, 1000, 1001	Jogaram, Chanchal Singh, Government Land, Guman Singh, Sadho Singh
III year	N 3304905 to N 3304933 & E 386787 to E 386803	920, 927, 934, 937, 943, 944, 982, 990, 992, 995	Sadho Singh, Guman Singh, Government Land, Sadho Singh
IV year	N 3304966 to N 3304988 & E 386786 to E 386811	930, 932, 934, 937, 938,	Guman Singh, Government Land, Sadho Singh
V year	N 3304980 to N 3305002 & E 386806 to E 386831	934, 938, 946, 990, 994	Guman Singh, Sadho Singh, Government Land

Plantation

Plantation	Coordinates	Khasra	Name of Lease Holder/Holders
I year	N 3304812 to N 3304934 & E 386844 to E 386894	963,1142,1143,1154,1156,1161,1162,1163, 1165,1166,1482,1484,1489,1496,1502	Guman Singh, Bachai Singh, Keshar Singh, Balwant Singh, Ram Singh,Government Land, Bhupal Singh Rauli, Dhan Singh
II year	N 3304712 to N 3304815 & E 386787 to E 386897	1480,1502,1503,1504,1509,1510,1514,1515, 1516,1517,1520,1524,1525,1526,1527,1528, 1531,1533	Keshar Singh, Dhan Singh, Bhupal Singh, Jagdish Singh, Ram Singh, Bhupal Singh
III year	N 3304711 to N 3304797 & E 386753 to E 386889	1048,1051,1053,1105,1106,1107,1577,1569, 1588,1604,1607,1609,1614,1637,1642,1643, 1644,1645,1693,1696,1701,1707,1708,1724, 1725,1726	Bachai Singh, Keshar Singh Ram Singh, Government Land, Kushal Singh, Balwant Singh, Lal Singh Dhan Singh, kundan Singh, Bhupal Singh,

			Diwan Singh,, kundan Singh, Jagdish Singh
IV year	N 3304972 to N 3305060 & E 386730 to E 386835	242,252,253,268,271,273,277,278,280,281,284,285,286,287,306,307,308,309,310,313,873,891,892,895,896	Khal, Rauli, Devram, Jogaram
V year	N 3304934 to N 3305061 & E 386833 to E 386847	252,900,901,902,904,905,918,920,921,923,924,933,939,935,940,941,942,943,946,948,950,951,953,956,957,959,960,961,962	Rauli, Devram, Sadho Singh, Guman Singh

(ii) Proposed method of mining:

Excavator shall be deployed for the removal of overburden & interburden. Soapstone is soft mineral therefore no drilling & blasting shall be required. No further beneficiation will be required except breaking & sorting. From road side the soapstone bags will be loaded into trucks through manually and transported to Haldwani The salient points of proposed method of mining are given below:-

- The mining will be done semi-mechanized way in open cast method in quite a systematic manner by forming upto 9 m high benches with 1.5m to 3.0m sub-benches. However, there may be minor variation in the width and height which the lessee will keep on mending.
- The top soil and interburden to be scrapped with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and will be stacked separately in dump yard located near the working pit.
- The extracted mineral is properly sorted out at the mine site. Crow bars are sometimes used to dislodge the mineral.
- The excavation for soapstone will be made through JCB Machine, dozer, shovels, pickaxe, spade & crowbar.
- It is proposed to make 5m to 9.0m height benches which will be sliced in three stages each of 3.0m height with 1.5m height sub benches.

- The slope of the faces will be kept 60^0-70^0 and the ultimate slope of the pit will remain 45^0.
- Developmental work will be done by construction of road/track to different working benches, removal of top soil and interburden.
- The soil will be filled into the bags, loaded on mules and unload into stockyard.

- The interburden generated during mining will be separately stacked and places shown within the applied area which will be backfilled.
- Sorting of high grade soapstone will be done on the benches by the labourers and it will be graded.
- The local people will be used for removal of mineral to the nearest road point from where the minerals will be transported by trucks to Haldwani.
- The mineral will be loaded over the trucks by the manual labour. The pit will be connected by track/foot path to the main road.
- The slope of track may vary from 1:8 to 1:20.
- Each mining face will be connected by track/road having width 3.0m.
- Exploitation of soapstone is small scale of mining and does not require any drilling & blasting.
- The average rate of production of soapstone is estimated in between 20000 to 24000 tonnes from I year to V year.
- Proper precautionary measures shall be taken to prevent soil erosion.
- The recovery of the soapstone will be 40% of the total excavation.
- Office, store, first aid centre, drinking water shed, rest shelter etc. will be constructed temporarily within the applied area.

The mining is confined in the applied area and mining benches of the pit will be backfilled to retain its original topography therefore the efforts for afforestation would be done inside the applied area in between lease boundary and UPL, about 0.495 area will be covered by 2295 saplings upto five year. Upto lease period 22950 saplings will be done in *Van Panchayat* and forest land after taking due permission from concerning authority.

- The top soil and interburden are stacked separately in dump yard within the applied area and will be used for reclamation of the pit after exploitation of the mineral.
- Mining operations shall be carried out scientifically by following the provisions of Mining and Minerals (Development & Regulation) Act, 2015, MCDR Notification 2017, Uttarakhand, Metalliferrous Mines Regulations (MMR) 1961, UKMMCR 2001 and time to time directions/amendment given by Geology & Mining Unit & State Government will growth generated on such boundary to isolate mining from rest of the area not be over looked at any stage.
- 7.5 m un-mined barrier will be maintained all along the lease boundary and vegetation
- Exploitation of the soapstone will not be done in land for public use.

It will be open cast mechanized mine. Due to the scarcity of workers it is not possible to carry out mining operation systematically & scientifically through the formation of benches. Therefore lessee has left no option but to deploy an excavator for systematic & scientific mining, conservation of mineral & protection of environment. It has been revealed from past mining experience that average recovery of waste rock / boulders is around 60% of total ROM. The rock formation is hard & rock breaker may be deployed for the removal of hard strata. Lessee

intends to set up small crusher unit so that waste rock/ boulders shall be utilised for making aggregates. If waste material is used for making aggregates, the problem is disposal of waste shall be solved & govt. will earn revenue. Chemical analysis of soapstone and waste material can be carried out from Laboratory of Directorate of Geology & Mining, Bhopalpani, Dehradun.

Extraction & management of minerals has to be guided by long- term national goals & perspective & integrated into the overall strategy of the country's economic development. Mining technology will be upgraded to ensure extraction & utilisation of entire Run of Mines (ROM). There shall be an adequate & effective legal & institutional framework promoting zero waste mining as the ultimate goal & commitment to prevent sub-optimal & unscientific mining.

Mining shall be carried out from higher level & subsequently advance to upper levels. As soon as mining pits reach its maximum economical depth backfilling shall be commenced from lower level to restore the maximum original topography of the area. This is common practice of soapstone mining in Kumaon Himalayas. Backfilling in both the pits shall commenced from first year onwards to restore the mined out pit to its maximum original topography. The average depression will be 2.0m with respect to its original topography.

The development activities along with khasra details are shown in year wise development plan.

All quantities of waste material to be generated each year shall be dumped with in lease area secured with retaining wall.

The broad parameters of working benches:

Item	Details
i) Method of Mining	Mining operation has been proposed by mechanized open cast method.
ii) Benches parameters	The broad parameters of working benches:
Bench Height	5.0m to 9.0m
Width	8.0m
Haul road width	6.0m
Bench slope	68^0
Over all Pit slope	32^0
Overall depth of mine during plan period	In pit-1 depth of mine varies between 3m to 8m (from 1133mRL to 1118mRL) while in pit-2 depth of mine varies between 8m to 9m (From 1187m RL to 1163m RL).
Gradient of Haul Road	1:16
Grid reference of proposed working location	Pit 1 will be in between coordinates N3304703 to N3304856 & E386774 to E 386851 & while in Pit 2 it is in between coordinates N 3304936

	to N 3305044 & E386732 to E386828.
Water table	No water table will be encountered due to proposed mining activities.
Pumping of water	No water will accumulate in the mining pit therefore no such proposal has given for pumping water.
Surface water management	Seasonal drainages exist within area & flow north to south direction. Mining activities are proposed for away from drainage & mining operations shall be temporarily closed during monsoon period. During monsoon period all mining pits shall be backfilled, therefore there shall be no adverse impact on water on water regime. Few check damps are proposed across the drainage to settle down suspended solids if any.

2.4 Mineral Beneficiation:

No mineral beneficiation will be under taken for five years. The soapstone will be dressed manually and different grade of soapstone stacked separately, which will be dispatched to various parties.

3 Review of Implementation of Mining Plan/Scheme of Mining including five years Progressive Closure Plan upto final closure of mine:

Mining plan of the area under reference is yet to be approved. It is therefore premature to make any comments about its review.

4 Closure plan

4.1 Mined Out Land:

The mining will commence from the higher levels and will advance towards lower levels. Intermittent backfilling will commence from the higher levels and subsequently advance towards the lower elevations so that terraced agricultural fields would undertaken in such a manner that original land use will be restored i.e. before the onset of monsoon will be handed over to cultivators for cultivation. The final backfilling will be started once the ultimate benches are formed and pit reaches the optimum economic depth. The year wise proposal for reclamation is shown in Plate – 6 to 10 enclosed in the Mining Plan.

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All recovery of the mineral will be of the saleable grade. The quantum of development and mineral to overburden soil and interburden in the pit is given below:

Year	Overburden soil (cum)	ROM (Tonnes)	Interburden (cum)	Stripping ratio
I	3789.20	20000	21618.94	1:0.78
II	4379.08	24000	25913.76	1:0.79
III	5291.74	24000	26294.31	1:0.75
IV	3394.52	23000	24454.03	1:0.82
V	3020.88	23000	24319.78	1:0.84
Total	**19875.42**	**114000**	**122600.82**	

The closure proposals implemented during the first five year period are given below:

A. Mines out land	Crop/*Nap* land (ha)
a) (i) Area already broken up	-
(ii) Area already backfilled	-
(iii) Area already reclaimed	-
b) (i) Additional area proposed to be broken up during first 5 year	1.829
(ii) Additional area proposed to be backfilled	-
(iii) Additional area proposed to be reclaimed	1.829

B. Dump- Soil & Interburden (IB)	Crop/*Nap* land (ha)
(i) Area occupied by dump	Soil- 0.013 IB- 0.012
(ii) Additional area to be covered by dump	-
(iii) Dump area to be covered by protective measures	0.025

C. Plantation	Revenue/*Benap* land (ha.)	Crop/*Nap* land (ha)
(i) Area already covered	-	-
(ii) Area proposed to be covered under plantation in five years	-	0.459

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Proposed land use (till end of life in ha.)

S. No.	Description	Area (ha)	Reclaimed & Rehabilitated till end of last MP/MS period (ha)	To be Reclaimed & Rehabilitated till the end of present plan/ scheme period (ha)	To be Reclaimed & Rehabil-itated till the end of life of mine (ha)	*To be Reclaimed & Rehabil-itated after end of life of mine (ha)	Remarks Area to be reclaimed by the end of lease (ha)
1	Mining (Quarry)	1.829	-	1.829	7.841	-	6.223
2	Waste dump	0.025	-	0.025			0.025
3	Office infrastructure	0.009	-	0.009			0.009
4	Processing plant	-	-	-			
5	Mineral Stack/Processing yard	0.005	-	0.005			0.005
6	Sub grade mineral stacks	-	-	-			-
7	Roads	0.191	-	0.191			0.764
8	Water course/pond/ reservoir	-	-	-			-
9	Unutilized area	5.782		5.782			0.811
	Total	**7.841**		**7.841**			**7.841**

4.2 Water Quality Management: No perennial surface or ground water bodies exist within the lease area. The mineral as well as soil and interburden are non-toxic and mining is also proposed at very small scale. Hence no proposal has been provided for the surface and ground water bodies. The impact on water with the kind of mining activity proposed may be as given below.

The water may carry suspended solids from mine waste to nearby streams. Deterioration of water quality with interaction of loose material and other and changing hydrologic cycle by affecting the infiltration run off relationship as a result of removal of top soil/vegetative cover. However, during the course of mining of soapstone waste like top soil, etc. is inert to the water. As such there is no danger to deterioration in the quality ofwater. Further pit excavation will indirectly help in recharging ground water aquifer. The drinking water is being supplied from the spring fed nala and from pipe line. The expected depth of water table in applied area likely to be more than the exploitation depth.

4.3 Air Quality Management: The lease area is situated in a hilly terrain. The semi-mechanised way mining without drilling and blasting has been proposed. There is no polluting agent within 5 km area of mining lease and the mining is also proposed at very small scale. Therefore the impact on air environment will be negligible. During the course of mining of soapstone no toxic substances are released into the atmosphere as such there seems to be no potential threat to health of human beings. Semi-mechanised way mining, loading and transport operations shall be limited in the instant case.Mining and allied activities are going on a comparatively small scale; the existing air is absolutely clean.

4.4 Waste Management:

The top soil will be removed with the help of JCB machine, dozer, shovels, pickaxe, spade & crowbar and stacked separately. The soil intermixed with fragments and interburden rejects are low grade magnesite. Part of these rejects will be utilized in construction and maintenance of retaining walls, parapet walls, check dams and other construction works. About 36780 cum of rejects will be used for this task, and remaining rejects about 85820 cum will be backfilled.

The quantity of top soil & overburden (Rejects/Waste) to be generated in each year is given below:

Year	Top Soil (cum)	Interburden (cum)	Mineral Rejects (cum)
I	3789.2	21618.94	25408.14
II	4379.08	25913.76	30292.84
III	5291.74	26294.31	31586.05
IV	3394.52	24454.03	27848.55
V	3020.88	24319.78	27340.66
Total	19875.42	122600.82	142476.24

The site for dumping the waste have been selected keeping in mined the ultimate pit limit, proximity to roads and lead from working benches. The proposed dump yards have adequate capacity to accommodate the waste production without rehandling except backfilling. Drainage from the dumps remain natural i.e., water shall be passed under the solid dumps. The built up of waste has been shown on the yearly mining plan and section. The top soil and interburden dump are temporary in nature & when pit will reach the economical depth; all the remaining quantities will be used in backfilling to restore the maximum topography of the area. The location of top soil stack and interburden dump are shown in Plate – 6 to 10.

4.5 Top Soil Management: No toxic and hazardous elements are present in the waste material. During five years about 19875.42 cum of soil will be generated. About 19875.42 cum of soil will be spread over the backfilled area. About 126m long retaining wall having width of 10m and height 1.5m will be made at the periphery of the soil stack to avoid the wash off the material during intermittent rains. It is proposed that part quantities of soil to

be produced will be spread on the backfilled pits so that mined out area will be converted into terraced agricultural field.

4.6 Tailing Dam Management: No tailing dam is proposed in the soapstone mine.

4.7 Infrastructure: Soapstone mining is semi-mechanised way open cast. The tracks having width of 3.0m and gradient 1:8 to 1:20 will be made for the advancement of mining faces and for the transportation of soapstone and overburden. There will not be any changed in existing infrastructure, however with the mining there will be improvement in the infrastructure in due course of time.

4.8 Disposal of Mining Machinery: The soapstone mine is open cast with semi-mechanised way. Machineries having the capacity upto 500 horse power will be used for excavation of the overburdened as well as mineral.

4.9 Safety and Security: Each worker employed in the mine will be provided helmets and shoes. Safety belts will be used for working in the top of the benches. The track will be provided to open the mining faces. The maintenance of track will be under taken periodically. Interburden and soil will be dumped near the working pits after providing retaining/toe wall. As proposed earlier that when the pit reaches the optimum economical depth, final backfilling will be started so that mined out area will be restored in its original topography Therefore by adopting these measures the working will be safe and secure. An experienced Permit Manager/Mines Foreman will be employed for the supervision of mining operations. There will not be any impact due to mining, dumping and other activities to local people.

At the time of closure of mining operations it is necessary to take adequate measures to ensure that persons and animals do not stray into the working pits/excavations and other surface openings and to prevent any type of accidents. Therefore protective works like fences, parapet walls, garland drains shall be provided before the mine/pit is abandoned.

4.10 Disaster management and risk assessment:

At present the mining is proposed in a moderate slopping crop/*nap* land only. When the mining will reach up to the optimum economical depth then final backfilling will commence to restore the topography of the area. The mining faces shall be dressed properly because any hanging boulders/loose material may create fatal accidents to the labourers while working in the pit. The mine shall be critically examined for its proneness to any natural hazard and assessment regarding danger of hazard and precautions to be taken should be reviewed and updated yearly preferably before the onset of monsoon so that water will not affect the benches & chances of slope failures will be minimized. Effective communication may be established within the mines for safe withdrawal of persons. Necessary standing orders in this regard need to be framed and enforced. Through sustained and meaningful R&D activities mining companies and research institutions shall help in creating a better understanding of the complex geo-mining

situations leading to the occurrence of fire which in turn will help in formulating guidelines to combat the problem of fire in effective manner. There is risk of accidents like landslides, seismic activities, check dam failures, fires and inundation etc. Although such accidents are unlikely to happen yet provision for meeting such eventualities is required to be made in the event of mine closure. An important element of mitigating disaster is recognizing that accidents are possible and assessing the consequences of such accidents and deciding on emergency procedure. In case of any accidents or to meet any type of risk, the affected person can contact in following address of Smt. Janki Rathor W/o Shri M. S. Rathor House no. 346/3 Kalawati Colony, Haldwani and Partner M/s Star Mines and minerals House No. 1516, Savitri Colony, Haldwani, Distt. Nainital. Mobile No- 8476037777.

4.10 Care and maintenance during temporary discontinuance –

During temporary discontinuity of the mine care and maintenance of each worker will be taken care by contractor.During monsoon period (i.e. from June to September) every year mining operations shall be temporarily discontinued and all the quantities soil &interburden shall be temporarily backfilled into mining pits levelled it & make it use for agriculture purpose. The backfilled mining pits shall properly fence to avoid any accident. Local person shall be employed to supervise the area & broken walls, check dams, linear drain, wire fencing shall be repaired immediately.

5 Economic Repercussions of Closure of manpower retrenchments and mine

All the workers to be employed will be contractor labours.
Local residents of nearby villages will be employed in the mine. The family occupation is mostly farming. A few of them have occupation of carpentry & masonry.
All the legal dues as applicable under labour laws will be payable to the workers.
About 30% of the workers employed in mine may be independent but they are controlled and depended by their family members.
The local residents will be employed in the mining operations and allied activities related to mining operations.

The industry will provide direct and indirect employment to local residents. They will earn a good amount of money due to mining activities. It will change their life style. Due to closure of mine, it will create very bad impact on the economy of the workers for their survival. Those earning good money will reach some occupation for survival of their families. The literate workers will move here and there for the search of job. In the overall view the closure of mine will cause adverse impact on the society and surrounding areas.

Individual lands owners in which respective field mining operations are in progress becomes the contractor for raising the soapstone mineral in his respective field and engage the local residents.
All the workers being employed are contractor labours.

Any industry will provide direct and indirect employment. The local residents will earn tremendous amount of money due to mining activities. It will change their life style. Due to closure of mine, it will create very negative impact on the economy of the workers for their

survival. Those earning good money will get some occupation for survival of their families. The literate workers will move here and there for the search of job. In the overall view the closure of mine will give very bad impact on the society and surrounding areas.

5.1 Mining shall be carried out through contractor in the proposed area & likely to be continued in the same manner. So no retrenchment of manpower is envisaged. Status of joining the family business back on the event of closure of mine & will depend on the circumstances prevailing at that time. However, chances of joining the family business back will not be so bright.

5.2 The compensation to given will depend on the labour laws prevalent at that time. Since 80% employees will be contract. They will not be compensated. Other will get benefit of compensation as per labor laws, while the staff will get only notice pay.

5.3 There are some satellite occupations connected to mining operations at present with in a distance of 5km. e.g. workshop/truck repair shops, tyre shops, general stores, small restaurants, fruit shops, tea shops etc. Such business at the time of closure is likely to get closed down, however the effect of single mine closure may not be fell at all.

5.4 Since the lessee will hand over the lease area to State Govt., there are no chances of continued engagement in the backfilled/reclaimed status. Once the lease is determined then all the remnant activities will come to an end barring the period of reclamation period.

5.5 The closure of mine will have grave repercussion on the expectations of society since the obvious advantages received will cease & the closure will directly affect their livelihood. Land owners will cease to get compensation in lien of surface rights. The local habitant in general will feel insecure as their education, health standards & life expectancy will be badly affected.

6 Time scheduling for abandonment:

The operations required to be carried out at the time of closure/abandonment of mines, shall be reclamation and rehabilitation by back filling the worked out area involving provision and maintenance of protective work like drains, parapet walls, retaining walls, Management of Air & water quality, Waste, top soil. Infrastructure and mining operation related equipments disposal, safety and security. The resources required for management of these operations shall be supervision, raw materials (mainly stone available at mines), cement, gates, fencing, transport & communications. It is proposed in the mining plan that mining will open from higher elevations and subsequently advance towards lower levels so that con- current reclamation will be undertaken to restore the topography of area. The backfilling will be commencing from first year onwards. During five years about 1.829 ha area will be backfilled.

The backfilled area will be again used for agricultural purposes. During five year about 126m long toe wall having width 10m and height 1.5m will be made along the slope and side of the top soil stack. About 550m long toe wall having width and height 1.0m each will be made along the side and slope of interburden dump. About 517m long retaining wall having width and height 1.5m each will be made along the base of backfilled pit.

7 **Abandonment cost:**

Retaining wall/Toe wall: The requirement of funds for protective and rehabilitation measures will depend on the extent to which these measures have been taken during the normal working of the mines.

Backfilling: During five years about 1.829 ha area will be backfilled and restored to its topography.

8 **Financial assurance:**

The area put to use for mining and allied activities during mining plan period for calculation of financial assurance is given in Plate - 14

Area to be considered for financial assurance @ Rs. 25,000 per ha for 2.059 ha Area is Rs. 51,475/-.

The lessee will submit the financial assurance of 2 Lac to Director Geology and Mining, Dehradun before the execution of lease deed.

Note* The area covered under plantation is excluded from financial assurance.

Area to be considered for financial assurance 7.841 ha.

Financial assurance @ Rs.25,000/- per ha.

7.841 ha X 25,000 = **Rs. 1,96,025/-**

(Rupees One Lac Ninety Six Thousand Twenty Five Only)

However, the provisions of the **Uttarakhand Minor Mineral Concession Rule, 2001**, the minimum amount as a financial assurance will be Rs. 2 Lac. Lessee will submit bank guarantee of Rs 2.0 lac to Director, Geology & Mining Bhopalpani, Dehradun at time of granting the GO.

Financial area assurance plan is shown in **Plate No. 14.**

Date:

Place:

Harish Kainthola
मु0ख0 / 05 / खनन / RQP / 2015-19

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR2019

Annexure- 1

उत्तराखण्ड शासन
औद्योगिक विकास (खनन) अनुभाग–1
संख्या: 1130 /VII-A-1/2020/1(4)/20
देहरादून,दिनांक 20 नवम्बर, 2020

कार्यालय ज्ञाप
आशय पत्र

जनपद व तहसील बागेश्वर के ग्राम करूली में कुल 28.264 है० भूमि में उपखनिज सोपस्टोन का खनन पट्टा चाहने हेतु श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर, हाऊस नं० 346/3, कलावती कालोनी, हल्द्वानी एवं अन्य साझेदार मै० स्टार माइन्स एवं मिनरल्स, हाउस नं० 1516, सावित्री कालोनी, हल्द्वानी के आवेदन पत्र दिनांक 08.12.2015 एवं निदेशक, भूतत्व एवं खनिकर्म इकाई, उत्तराखण्ड के पत्र संख्या–746/मु०ख०/19/सोपस्टोन/भू०खनि०ई०/2015–16, दिनांक 31 जुलाई, 2020 द्वारा उपलब्ध कराये गये प्रस्ताव के क्रम में इस आशय पत्र (letter of Intent) के माध्यम से राज्य सरकार श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर, हाऊस नं० 346/3, कलावती कालोनी, हल्द्वानी एवं अन्य साझेदार मै० स्टार माइन्स एवं मिनरल्स, हाउस नं० 1516, सावित्री कालोनी हल्द्वानी के पक्ष में जनपद एवं तसहील बागेश्वर के ग्राम करूली के क्षेत्रान्तर्गत आवेदित कुल 28.264 है० भूमि के सापेक्ष कुल 19.879 है० भूमि में उत्तराखण्ड गौण खनिज नीति, 2015 (समय–समय पर यथासंशोधित) के प्रावधानानुसार उपखनिज सोपस्टोन का 50 वर्ष की अवधि हेतु खनन पट्टा स्वीकृत करने की मंशा रखती है। आवेदक यदि उक्त खनन पट्टा लेने हेतु सहमत हों तो निम्नलिखित शर्तों का अनुपालन पत्र प्राप्ति के छः माह में प्रस्तुत करें, जिससे खनन पट्टे की औपचारिक स्वीकृति जारी की जा सके :–

1. उत्तराखण्ड गौण खनिज नीति, 2015 (समय–समय पर यथासंशोधित) के नियमों/प्रतिबन्धों पर लिखित सहमति पत्र।
2. उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर 3(दो)(5) के अनुसार आवेदक द्वारा खनन योजना संबंधित खान अधिकारी/उप निदेशक (खनन) के समक्ष ₹ 20,000/–की धनराशि निर्धारित लेखाशीर्षक में ट्रेजरी चालान के माध्यम से जमा कराने के उपरान्त चालान की प्रति के साथ प्रस्तुत की जायेगी।
3. आवेदक द्वारा उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर–3(ग्यारह) में कार्यालय संख्या–1589/VII-1/2015/68–ख/2015, दिनांक 7 अक्टूबर 2015 के द्वारा किये गये संशोधन के अनुसार, बैंक गारन्टी ₹ 1.00 लाख मैनुअल माईनिंग एवं ₹ 2.00 लाख मशीनीकृत माईनिंग हेतु निदेशक के पक्ष में प्रस्तुत करनी होगी ।
4. उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर–7 के अनुसार आवेदक को खनन पट्टे में पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार की अधिसूचना का०आ० 2601 (अ) दिनांक 07 अक्टूबर 2014 के क्रम में जारी शासनादेश संख्या–1621/VII-1/212–ख /2014, दिनांक 17 दिसम्बर 2014 के अनुसार पर्यावरणीय अनुमति प्राप्त किया जाना आवश्यक होगा।
5. उत्तराखण्ड गौण खनिज नीति, 2015 के प्रस्तर–8 के अनुसार आवेदक को प्रतिभूति धनराशि ₹ 10,000/– निदेशक, भूतत्व एवं खनिकर्म इकाई के पक्ष में बन्धक करना होगा।
6. आवेदक को उत्तराखण्ड पर्यावरण संरक्षण एवं प्रदूषण नियंत्रण बोर्ड उत्तराखण्ड से CTE/CTO प्राप्त करना आवश्यक होगा।
7. राजस्व विभाग द्वारा निजी भूमि धारकों की सूची खसरा विवरण सहित सॉफ्ट कापी एवं हार्ड कापी ए–4 साईज में निदेशालय एवं शासन को उपलब्ध करायी जायेगी।
8. खनन पट्टा क्षेत्रान्तर्गत सार्वजनिक उपयोग की कुल 0.635 है० भूमि में खनन कार्य निषिद्ध रहेगा।
9. प्रस्तावित क्षेत्र का सीमाबन्धन भूतत्व एवं खनिकर्म इकाई के अधिकारियों द्वारा राजस्व विभाग तथा प्रभागीय वनाधिकारी, बागेश्वर वन प्रभाग के प्रतिनिधि के द्वारा संयुक्त रूप से किया जायेगा। सीमाबन्धन के समय यदि क्षेत्र का कोई भाग आपत्तिजनक पाया जाता है तो उसे पृथक कर दिया जायेगा, जिसके फलस्वरूप क्षेत्र अथवा क्षेत्रफल में कोई परिवर्तन किया जाता है, तो वह आवेदक को मान्य होगा।

–2

10. आवेदक खनन कार्य के दौरान स्थल में उपलब्ध सार्वजनिक सम्पत्ति, आवासीय भवन, सार्वजनिक स्थल भवन आदि को हानि नहीं पहुँचायेगा। हानि पहुँचाने की स्थिति में आवेदक स्वयं जिम्मेदार होगा।
11. कार्यालय ज्ञाप संख्या- 1457/VII-1/2017/68 खo/15, दिनांक 17 नवम्बर, 2017 के बिन्दु सo 6(तीन)(क)(2) के अनुसार आशय पत्र की समस्त शर्तों को पूर्ण किये जाने के पश्चात निदेशक, भूतत्व एवं खनिकर्म इकाई की स्वीकृति पर शासन द्वारा खनन पट्टा स्वीकृत किया जायेगा, परन्तु पट्टाधारक द्वारा स्वीकृत क्षेत्र में खनन कार्य का प्रारम्भ सम्बन्धित भू-स्वामियों की सहमति/अनापत्ति के उपरान्त ही किया जायेगा।
12. आवेदक द्वारा फर्म का पंजीकरण भागीदारी विलेख, फर्म के सभी भागीदारों का वैध प्रमाण पत्र, सभी भागीदारों का खनन अनुभव प्रमाण पत्र, सभी भागीदारों के पूर्व निवास प्रमाण पत्र, सभी भागीदारों के द्वारा आयकर विवरणी जमा कराये जाने सम्बन्धी राजपत्रित अधिकारी द्वारा निर्गत अद्यतन प्रमाण पत्र एवं जी0एस0टी0 नo प्रस्तुत किया जाना अनिवार्य होगा।
13. खनन पट्टा क्षेत्रान्तर्गत आने वाले वृक्षों को वन विभाग द्वारा निर्धारित मानकों के अनुसार संरक्षित रखने की जिम्मेदारी आवेदक की होगी।

एन०एस० डुंगरियाल
संयुक्त सचिव

संख्याः 1130 (1)/VII-A-1/2020 तद्दिनांकित।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित

1. निदेशक, भूतत्व एवं खनिकर्म इकाई, उत्तराखण्ड, देहरादून को उनके उक्तांकित पत्र के सन्दर्भ में सूचनार्थ एवं निम्न निर्देशों के साथ कि उत्तराखण्ड मॉण्ड मिनरल नीति, 2015 (समय समय पर यथासंशोधित) के प्रावधानानुसार खनन पट्टा हेतु प्रस्ताव शासन को उपलब्ध कराने का कष्ट करें –
   (क) इस आदेश द्वारा स्वीकृत क्षेत्र का सीमाबन्धन प्रत्येक दशा में इस आदेश की दिनांक से 60 दिवस में करा लिया जाय ताकि समयान्तर्गत पट्टाधारक द्वारा पट्टालिलेख का निष्पादन कराया जा सके।
   (ख) खनन पट्टा क्षेत्र के सीमाबन्धन की सूचना मय सीमाबन्धन रिपोर्ट, मानचित्र आदि के सीमाबन्धन पूर्ण किये जाने की दिनांक से 10 दिवस में शासन को प्रेषित कर दी जाये।
   (ग) सीमाबन्धन रिपोर्ट में यह प्रमाण पत्र अवश्य दिया जाये कि खनन पट्टे पर स्वीकृत क्षेत्र में सम्मिलित वन भूमि के अलावा कोई अन्य वन भूमि खनन पट्टा हेतु सीमाबन्धित क्षेत्र में सम्मिलित नहीं की गई है तथा सीमाबन्धित क्षेत्र की परिधि से कम से कम 100 मीटर की दूरी पर है।
2. जिलाधिकारी, बागेश्वर।
3. श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर, हाऊस नं० 346/3, कलावती कालोनी, हल्द्वानी एवं अन्य साझेदार मै० स्टार माइन्स एवं मिनरल्स, हाउस नं० 1516, सावित्री कालोनी हल्द्वानी।
4. गार्ड फाईल।

आज्ञा से,

(दिनेश सिंह भण्डारी)
अनु सचिव

Annexure- 2

संयुक्त सीमांकन रिपोर्ट

आज दिनांक 22/12/2020 को जनपद बागेश्वर तहसील बागेश्वर के ग्राम कांकली में श्रीमती भगती राठौर पत्नी पुत्र श्री मेहरबान सिंह राठौर के पक्ष में स्वीकृत 19.879 हे0 भूमि क्षेत्र का सीमाबन्धन क्षेत्रीय राजस्व उप निरीक्षक द्वारा बताये गये सन्दर्भित बिन्दु के आधार पर पट्टाधारक/प्रतिनिधि श्री मेहरबान सिंह राठौर के समक्ष सम्बन्धित विभागों की उपस्थिति में किया गया। आवेदक/आवेदिका के प्रतिनिधि को सभी सीमा स्तम्भों के स्थान दिखा/बता दिये गये हैं।

राजस्व उप निरीक्षक
क्षेत्र- [illegible]
तह0/जिला-बागेश्वर

सर्वेक्षक,
भूतत्व एवं खनिकर्म इकाई
जिला [illegible]

आज दिनांक 28/12/2020 को जनपद बागेश्वर तहसील बागेश्वर के ग्राम कठली में श्रीमती कमली देवी पत्नी श्री मेहरबान सिंह के पक्ष में ~~स्वीकृत~~ धोषित ए.पी.एच. क्षेत्र में आवेदक/आवेदिका/के प्रतिनिधि ने सीमाबन्धन के दौरान बताये गये सीमा स्तम्भों का निर्माण कर लिया गया है।

28/12/2020
राजस्व अनुरक्षक
क्षेत्र- दुग
तह0/जिला-बागेश्वर

कार्यालय उपनिदेशक/भूवैज्ञानिक

भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय उत्तराखण्ड,
जनपद बागेश्वर।

संख्या 634 /जि0ट0फो0/गौण खनिज–15/2020–21, दिनांक 23-02-2021

सेवा में,

निदेशक,
भूतत्व एवं खनिकर्म इकाई,
उद्योग निदेशालय, उत्तराखण्ड,
देहरादून।

विषयः **जनपद व तहसील बागेश्वर के ग्राम करूली में आवेदित कुल 28.264 है0 के सापेक्ष 19.879 है0 भूमि में उपखनिज सोपस्टोन का खनन पट्टा चाहने हेतु श्रीमती जानकी राठौर पत्नी श्री एम0एस0 राठौर हाउस नं0 346/3, कलावती कालोनी हल्द्वानी एवं साझेदार मै0 स्टार माइंस एण्ड मिनरल्स हाउस नं0 1516 सावित्री कालोनी, हल्द्वानी के आवेदन पत्र दिनांक 08.12.2015 के क्रम में उत्तराखण्ड शासन औद्योगिक विकास अनुभाग–1 के कार्यालय ज्ञाप संख्या 1130/VII-A-I/ 2020/ 1(4) /20 दिनांक 20 नवम्बर, 2020 के द्वारा आशय पत्र पर स्वीकृत खनिज सोपस्टोन खनन पट्टा क्षेत्र के सीमाबन्धन के सम्बन्ध में।**

महोदय,

कृपया उपरोक्त विषयक औद्योगिक विकास अनुभाग–1 के कार्यालय ज्ञाप संख्या 1130/VII-A-I/2020/1(4)/20 दिनांक 20 नवम्बर, 2020 के क्रम में संयुक्त निदेशक, भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड, देहरादून के पत्र संख्या 2131/खनन/19/भू0खनि0ई0/बागे0/2015–16 दिनांक 27 नवम्बर, 2020 जो जिलाधिकारी महोदय बागेश्वर व खान अधिकारी, भूतत्व एवं खनिकर्म इकाई, बागेश्वर को सम्बोधित तथा आवेदिका को पृष्ठांकित है, के द्वारा जनपद व तहसील बागेश्वर के ग्राम करूली में आवेदित कुल 28.264 है0 के सापेक्ष 19.879 है0 भूमि में उपखनिज सोपस्टोन का खनन पट्टा हेतु श्रीमती जानकी राठौर पत्नी श्री एम0एस0 राठौर हाउस नं0 346/3, कलावती कालोनी हल्द्वानी एवं साझेदार मै0 स्टार माइंस एण्ड मिनरल्स हाउस नं0 1516 सावित्री कालोनी, हल्द्वनी के आवेदन पत्र पर निर्गत आशय पत्र के सम्बन्ध में आवेदित क्षेत्र का सीमाबन्धन किये जाने के आदेश दिये गये हैं।

उक्त के अनुपालन में आवेदित क्षेत्र का सीमाबन्धन आवेदिका के प्रतिनिधि की उपस्थिति में विभागीय सर्वेक्षक द्वारा राजस्व उपनिरीक्षक व वन दरोगा की सहायता से दिनांक 23.12.2020 को सम्पन्न किया गया। सीमाबन्धन के दौरान कुछ ग्रामीणों द्वारा प्रश्नगत् क्षेत्र के कुछ भाग में जिसमें उनकी भूमि स्थित है, में सीमांकन करने हेतु आपत्ति जताई गयी तथा कुछ भाग में अत्यधिक आवासीय भवन होने के कारण उस भाग को, खसरा मानचित्र में आवेदिका के प्रतिनिधि श्री मेहरबान सिंह राठौर की सहमति से मौके पर पृथक कर दिया। पृथक किये भाग के सम्बन्ध में आवेदिका के प्रतिनिधि श्री मेहरबान सिंह राठौर द्वारा मौके पर सीमाबन्धन के दौरान अपने पत्र दिनांक 23.12.2020 के द्वारा सहमति दी गयी (छायाप्रति संलग्न)। पृथक करने के उपरान्त सीमाबन्धित क्षेत्र के अन्तर्गत पड़ने वाली भूमि का विवरण जिलाधिकारी बागेश्वर के पत्र सं 440/तीस –31/खनन/(2015–16)20–21 दिनांक 08.02.2021 के द्वारा प्राप्त हो गया है, जिसके अनुसार सीमाबन्धित क्षेत्र के अन्तर्गत पड़ने वाली भूमि का विवरण निम्नवत् है :–

–2–

खसरा विवरण

जोतदार के नाम दर्ज श्रेणी 1(क) की भूमि है0 में	राज्य सरकार की भूमि है0 में			सार्वजनिक उपयोग की भूमि			सम्पूर्ण भूमि का कुल क्षेत्रफल है0 में।
	जोतदार के नाम दर्ज श्रेणी 7(क)की की भूमि गैरमजरूवि0 है0 मे।	श्रेणी 9(3)ग गौचर गैरमजरूवि0 की की भूमि है0 में	श्रेणी 9(3)ड.बं0 बाबबंगैरम जरू वि0 की भूमि है0 में	श्रेणी 10(1) तौली की भूमि है0 में	श्रेणी 10(2) सड़क, मंदन रास्ता की भूमि है0 में	श्रेणी 10(4) चट्टान की भूमि है0 में	
6.584	0.425	—	0.658	0.157	0.017		7.841

सीमाबन्धन के दौरान आवेदक को सभी सीमास्तम्भों के स्थान दिखा/बता दिये गये थे। राजस्व उपनिरीक्षक की आख्या दिनांक दिनांक 28.12.2020 (छायाप्रति संलग्न) में स्पष्ट किया गया है कि आवेदक द्वारा बताये गये सभी सीमास्तम्भों का निर्माण कर लिया गया है। सीमाबन्धित क्षेत्र को खसरा मानचित्र में लाल रंग से दर्शाया गया है।

आवेदक द्वारा निर्धारित सीमाबन्धन शुल्क रू0 20,000.00 (बीस हजार मात्र) के ट्रेजरी चालान की प्रति इस कार्यालय में प्रस्तुत की गयी है (छायाप्रति संलग्न)। सीमाबन्धन प्रतिवेदन मय खसरा मानचित्र की सत्यापित प्रति, राजस्व उपनिरीक्षक की आख्या दिनांक दिनांक 23.12.2020 एवं दिनांक 28.12.2020 की छायाप्रति, सीमाबंधित क्षेत्रान्तर्गत पडने वाली भूमि के सम्बन्ध में जिलाधिकारी महोदय बागेश्वर द्वारा उपलब्ध करायी गयी आख्या की प्रति मय संलग्नकों के इस पत्र के साथ संलग्न कर आपके आवश्यक कार्यवाही हेतु सादर प्रेषित है ।

संलग्नक उपरोक्तानुसार

भवदीय

(लेख राज)
उपनिदेशक/भूवैज्ञानिक

आवेदक का नाम– श्रीमती जानकी राठौर पत्नी श्री एम0एस0 राठौर हाउस नं0 346/3, कलावती कालोनी हल्द्वानी एवं साझेदार मै0 स्टार माइंस एण्ड मिनरल्स हाउस नं0 1516 सावित्री कालोनी, हल्द्वनी
ग्राम का नाम – करूली, तहसील व जिला – बागेश्वर, सीमाबंधित क्षेत्रफल – 7.841 है0, खनिज का नाम – सोपस्टोन
आवेदित क्षेत्र के ग्राम का नाम – करूली, तहसील व जिला – बागेश्वर, मानचित्र का प्रकार :–खसरा मानचित्र,
सर्वेक्षण का दिनांक :– 23.12.2020 संदर्भ बिन्दु का विवरण (चित्रण) – खेत नं0 1052 का कोना

स्टेशन से	स्टेशन तक	दिक्मान	दूरी	कार्नर पिलर	रिमार्क
स्टेशन 1 △	R.P. ▭	323.40'	28.00 मी0		R.P. ▭ खेत नं0 1052 का कोना
	पिलर – 1	204°–00'	51.00 मी0	पिलर – 1	
	पिलर –2	340°–00'	300.00 मी0	पिलर –2	
	पिलर –3	7°–30'	330.00 मी0	पिलर –3	
	पिलर –4	15°–00'	362.00 मी0	पिलर –4	
	पिलर –5	9°–00'	242.00 मी0	पिलर –5	
	स्टेशन–2	35°–30'	75.00 मी0	स्टेशन–2	
स्टेशन–3	स्टेशन–2	206°–00'	40.00 मी0	स्टेशन–2	
	पिलर –6	54°–00'	162.00 मी0	पिलर –6	
	पिलर –7	47°–45'	222.00 मी0	पिलर –7	
	पिलर –8	51°–30'	239.00 मी0	पिलर –8	
	पिलर –9	133°–30'	113.00 मी0	पिलर –9	

सर्वेक्षक

भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय उत्तराखण्ड, बागेश्वर
सीमाबन्धित क्षेत्र की चौहद्दी निम्नानुसार है :

आवेदक का नाम – श्रीमती जानकी राठौर पत्नी श्री एम0एस0 राठौर हाउस नं0 346/3, कलावती कालोनी हल्द्वानी एवं साझेदार मै0 स्टार माइंस एण्ड मिनरल्स हाउस नं0 1515 सावित्री कालोनी, हल्द्वनी,जिला नैनीताल।
ग्राम का नाम –करूली, **तहसील व जिला** – बागेश्वर, **सीमाबन्धित क्षेत्रफल** – 7.941 है0

क्षेत्र के उत्तर में :

पिलर – 3 खेत नं0 288, पिलर – 4 खेत नं0 213

क्षेत्र के दक्षिण में :

पिलर – 9 खेत नं0 1427, पिलर – खेत न0 1, पिलर – 1696

क्षेत्र के पूरब में :

पिलर – 5 खेत नं0 1302, पिलर – 6 खेत न0 3520, पिलर – 7 खेत नं0 3562, पिलर – 8 खेत न0 66

क्षेत्र के पश्चिम में

पिलर –1 खेत नं0 1696, पिलर – 2 खेत न0 306,

सर्वेक्षक

उपनिदेशक/भूवैज्ञानिक

उपरोक्त सीमाबन्धन से मैं पूर्ण रूप से सहमत हूँ।

पट्टाधारक/प्रतिनिधि

कार्यालय जिलाधिकारी, बागेश्वर।

पत्रांक– 440 /तीस– 31/खनन/(2015–16)20–21 दिनांक– 08/ 02 /2021

उपनिदेशक/भूवैज्ञानिक,
भूतत्व एंव खनिकर्म इकाई,
जिला टास्क फोर्स, जिला बागेश्वर।

विषयः– जनपद व तहसील बागेश्वर के ग्राम करूली में आवेदित कुल 28.264 है0 के सापेक्ष 19.879 है0 भूमि में उपखनिज सोपस्टोन का खनन पट्टा चाहने हेतु श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर हाउस न0 346/3, कलावती कालोनी, हल्द्वानी एवं साझेदार मै0 स्टर माइंस एव मिनरल्स हाउस नम्बर 1516 सावित्री कालोनी, हल्द्वानी के आवेदन पत्र दिनांक 08.12.2015 के क्रम में उत्तराखण्ड औद्योगिक विकास अनुभाग–1 के कार्यालय ज्ञाप संख्या–1130/VII-A–1/2020/1(4)/2020 दिनांक 20 नवम्बर, 2020 द्वारा आशय पत्र पर स्वीकृत खनिज सोपस्टोन खनन पट्टा के सीमांबन्धन के सम्बन्ध में।

उपर्युक्त विषयक अपने पत्र संख्या–504/जि0टा0फो0/गौण खनिज/2020–21 दिनांक 04–01–2021 का संदर्भ ग्रहण करें। प्रकरण में उपजिलाधिकारी,बागेश्वर से जांच करायी गई। उपजिलाधिकारी,बागेश्वर द्वारा अपने पत्र संख्या–964/रीडर–खनन जांच/2020–21, दिनांक 05 फरवरी, 2021 से उपलब्ध करायी गयी आख्या की छायाप्रति संलग्न कर अग्रेत्तर कार्यवाही हेतु प्रेषित की जा रही है।

संलग्न–यथोक्त।

प्रभारी अधिकारी,खनन
कृते जिलाधिकारी बागेश्वर।

प्रतिलिपि– निदेशक, भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड भोपालपानी देहरादून को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

प्रभारी अधिकारी,खनन
कृते जिलाधिकारी बागेश्वर।

बागेश्वर को आ. का. करें।

कार्यालय उपजिलाधिकारी, बागेश्वर।

संख्या-967 /रीडर-खनन जांच/2020-21 दिनांक 05 फरवरी, 2021

सेवा में,

जिलाधिकारी,
बागेश्वर।

विषय- जनपद व तहसील बागेश्वर के ग्राम करूली में आवेदित कुल 28.264 है0 के सापेक्ष 19.879 है0 भूमि में उपखनिज सोपस्टोन का खनन पट्टा चाहने हेतु श्रीमती जानकी राठौर पत्नी श्री एम0एस0 राठौर हाउस न0 346/3, कलावती कालोनी, हल्द्वानी एवं साझेदार मै0 स्टार माइंस एवं मिनरल्स हाउस नम्बर 1516 सावित्री कलोनी, हल्द्वानी के आवेदन पत्र दिनांक 08.12.2015 के क्रम में उत्तराखण्ड शासन औद्योगिक विकास अनुभाग-1 के कार्यालय ज्ञाप संख्या-1130/VII-A-1/2020/1(4)/2020 दिनांक 20 नवम्बर, 2020 के द्वारा आशय पत्र पर स्वीकृत खनिज सोपस्टोन खनन पट्टा क्षेत्र के सीमाबन्धन के सम्बन्ध में।

महोदय,

कृपया उपर्युक्त विषयक अपने कार्यालय पृष्ठांकन पत्र संख्या-380/तीस-खनन/2020-21 दिनांक 11.01.2021 का सन्दर्भ ग्रहण करने का कष्ट करें। जिसमें तहसील बागेश्वर के ग्राम करूली में आवेदित कुल 28.264 है0 के सापेक्ष 19.879 है0 भूमि में उपखनिज सोपस्टोन का खनन पट्टा चाहने हेतु श्रीमती जानकी राठौर पत्नी श्री एम0एस0 राठौर हाउस न0 346/3, कलावती कालोनी, हल्द्वानी एवं साझेदार मै0 स्टार माइंस एवं मिनरल्स हाउस नम्बर 1516 सावित्री कलोनी, हल्द्वानी के आवेदन पत्र दिनांक 08.12.2015 के क्रम में उत्तराखण्ड शासन औद्योगिक विकास अनुभाग-1 के कार्यालय ज्ञाप संख्या-1130/VII-A-1/2020/1(4)/2020 दिनांक 20 नवम्बर, 2020 के द्वारा आशय पत्र पर स्वीकृत खनिज सोपस्टोन खनन पट्टा क्षेत्र के सीमाबन्धन कर आख्या उपलब्ध कराये जाने का उल्लेख किया गया है। प्रकरण में तहसीलदार, बागेश्वर से जांच आख्या प्राप्त की गयी। तहसीलदार, बागेश्वर द्वारा अपनी आख्या निम्नानुसार प्रस्तुत की गयी है-

01. सीमांकित क्षेत्र के अन्तर्गत आये खेतों/खेत नम्बरानों का असल मानचित्र से मिलान कर आवेदित मानचित्र में यथारूप अंकन कर दिया गया है।

02. सीमांकित क्षेत्रान्तर्गत आने वाली भूमि का विवरण निम्न प्रकार है:-

जोतदार के नाम दर्ज श्रेणी 1(क) की भूमि है0 में।	राज्य सरकार की भूमि			सार्वजनिक उपयोग की भूमि			सम्पूर्ण भूमि का कुल क्षेत्रफल है0 में।
	जोतदार के नाम दर्ज श्रेणी 7(क) की भूमि गैस/जo/वि0	श्रेणी 9(3) ग गौचर गैस/जo/वि0 की भूमि है0 में।	श्रेणी 9(3) ड़ बंoका0आ0 गैस/जo/वि0 की भूमि है0 में।	श्रेणी 10(1) रौली की भूमि है0 में।	श्रेणी 10(2) सड़क,नवन, रास्ता की भूमि है0 में।	श्रेणी 10(4) चट्टान की भूमि है0 में।	
6.584 है0	0.425 है0	-	0.658 है0	0.157 है0	0.017 है0	-	7.841 है0

इस प्रकार प्रस्तावित सीमांकित क्षेत्रान्तर्गत भूमिधरों के नाम दर्ज श्रेणी 1 (क) की कुल भूमि 6.584 है0, श्रेणी 7 (क) गै0ज0वि0 की भूमि 0.425 है0 है। जिसे मानचित्र में लाल स्याही से दर्शाया गया है। भूमिधरों के नाम दर्ज भूमि में वन संरक्षण अधिनियम 1980 के प्राविधान लागू नहीं होते हैं। आवेदित क्षेत्रान्तर्गत राज्य सरकार के स्वामित्व की श्रेणी 9(3) ड़ 0.658 है0 व सार्वजनिक उपयोग श्रेणी 10 (1) 0.157 है0 एवं श्रेणी 10 (2) की 0.017 है0 कुल 0.174 है0 भूमि आती है। राज्य सरकार व सार्वजनिक उपयोग की भूमि में खनन निर्षिद्ध रहेगा। सीमांकित क्षेत्रान्तर्गत आवेदित क्षेत्र के सापेक्ष 7.841 है0 भूमि आती है। जिसका खसरा एवं मानचित्र संलग्न है।

अतः उक्तानुसार तहसीलदार, बागेश्वर से प्राप्त आख्या अग्रिम कार्यवाही हेतु सादर प्रेषित।

संलग्नकः यथोक्त।

भवदीय,

उपजिलाधिकारी,
बागेश्वर।

824

सेवा में,

तहसीलदार महोदय बागेश्वर।

विषय:- जनपद व तहसील बागेश्वर के ग्राम- कफड़ी में आवेदित कुल 28.564 है० के सापेक्ष 19.8 मृदा भूमि में उपखनिज सोपस्टोन का खनन पट्टा चाहने हेतु श्रीमती आनकी राहीर पत्नी श्री एम० एस० राहीर हाउस नं० 346/3 कलौनी कलौनी हल्द्वानी एवं साझेदार मै० स्टार मर्चेंस एण्ड मिनरल्स हाउस नं० 1516 साविमी कलौनी हल्द्वानी के आवेदन पत्र दिनांक 08.12.2015 के क्रम में उत्तराखण्ड शासन औद्योगिक विकास अनुभाग-1 के कार्यालय जनपद देहरा 1130/VII-A-1/2020/1(4)/20 दिनांक 26 नवम्बर 2020 के द्वारा अवगत पत्र पर संलग्नित खनिज सोपस्टोन खनन पट्टा क्षेत्र के सीमांकन के सम्बन्ध में।

महोदय,

आदेशानुसार सम्बंधित प्रकरण की जाँच की गयी जाँच आख्या निम्न प्रकार है।

(1) सीमांकित क्षेत्र के अन्तर्गत आने वाले खेतों/खेतखसरानों का असल मानचित्र से मिला कर आवेदित मानचित्र में यथोचित अंकन कर दिया गया है।

(2) सीमांकित क्षेत्र के अन्तर्गत भूमि का खसरा विवरण मानचित्र के अनुसार तैयार कर पृथक से संलग्न है।

(3) सीमांकित क्षेत्रान्तर्गत आने वाली भूमि का विवरण निम्न प्रकार है:-

क्र० सं०	जोतदार के नाम दर्ज श्रेणी 1(क) की भूमि	जोतदार के नाम दर्ज श्रेणी 7(क) की भूमि	श्रेणी 9(3)(a) जाँच	श्रेणी 9(3)(b) वन क्षेत्र	श्रेणी 10(1) वैली	श्रेणी 10(2) (नाला/गधेरा)	श्रेणी 10(4) (चट्टान)	सम्पूर्ण योग
01	6.584 है०	0.425 है०	—	0.658 है०	0.157 है०	0.017 है०	—	7.841 है०

इस प्रकार सीमांकित क्षेत्रान्तर्गत जोतदारों के नाम दर्ज श्रेणी 1(क) की कुल भूमि 6.584 है० है/ एवं श्रेणी 7(क) (NZA) की भूमि 0.425 है० है/ उक्त भूमि मानचित्र में लाल से इंगित की गयी है/ जोतदार के नाम दर्ज भूमि में वन कानून अधि० 1980 के प्रावधान लागू नहीं होते हैं एवं राज्य सरकार की भूमि श्रेणी 9(3)(b) 0.658 है०, है एवं सार्वजनिक भूमि श्रेणी 10(1) 0.157 है० श्रेणी 10(2) 0.017 है० कुल 0.174 है० है राज्यसरकार व सार्वजनिक भूमि में खनन निषिद्ध रहेगा।

इस प्रकार सीमांकित क्षेत्रान्तर्गत आवेदित क्षेत्र के सापेक्ष 7.841 है० भूमि आवि है/ खसरा एवं मानचित्र संलग्न है०

अतः० बाद जाँच आख्या उपरोक्त संशोधित।

संलग्न: 32 शीट

RSI
(दो गाँव कलौनी व तल्लीमुई का खसरे नक्शा आपस में मिलाने हेतु)

सम्पूर्ण गोश्वरा खसरा

ग्राम- करुली रा० उप नि० क्षेत्र - तुपेड़ तहसील/जिला- बागेश्वर]

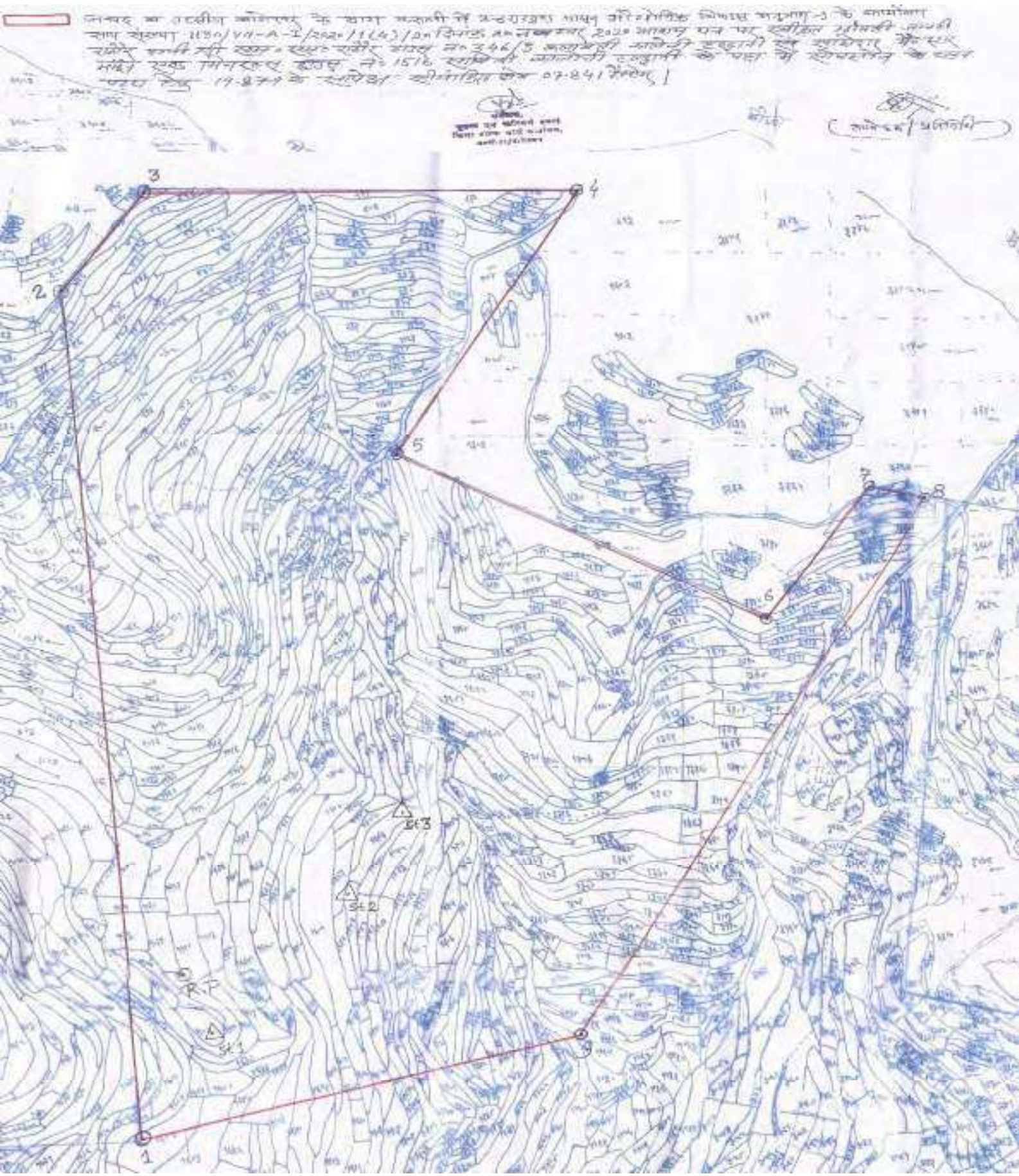
क्र० सं०	जोतदार के नाम दर्ज श्रेणी 1(5) की भूमि	जोतदार के नाम दर्ज श्रेणी 7(4) की भूमि (N ∑A)	श्रेणी 9(3) ग की भूमि (गौचर)	श्रेणि 9(3)उ की भूमि ब० काश्त०	श्रेणी 10(1) की भूमि (रौली)	श्रेणी 10(2) की भूमि सफु यला	श्रेणी 10(4) की भूमि (चहा०)	विवरण/ कुल योग
01	6.584 है०	0.425 है०	—	0.658 है०	0.157 है०	0.017 है०	—	7.841 है०
सूची योग →	6.584 है०	0.425 है०	—	0.658 है०	0.157 है०	0.017 है०	—	7.841 है०

महोदय, तैयार किया।

24/11/2021

क्षेत्र-
तहo/जिला-बाग

Annexure- 3



Annexure- 4

पुष्कर गौशाला खुरपा

ग्राम - करनी ग्रा० उप नि० क्षेत्र - लुधेड तहसील/जिला - बागेश्वर I

खसरा सं०	खसरा क्षे०	श्रेणी I (क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड०	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1	·316	·231	·032	—	·047	·016	—	—	
2	·280	·076	·143	—	·021	·040	—	—	
3	·293	·284	—	—	·009	—	—	—	
4	·237	·197	·031	—	·009	—	—	—	
5	·467	·387	·025	—	·055	—	—	—	
6	·405	·376	—	—	·011	·018	—	—	
7	·209	·209	—	—	—	—	—	—	
8	·284	·238	—	—	·046	—	—	—	
9	·428	·351	·025	—	·052	—	—	—	
10	·420	·398	—	—	·022	—	—	—	
11	·274	·239	—	—	·014	·021	—	—	
12	·223	·101	—	—	·032	·001	·009	—	
13	·235	·129	—	—	·106	—	—	—	
14	·380	·352	—	—	·028	—	—	—	
15	·394	·334	—	—	·060	—	—	—	
16	·269	·175	·027	—	·067	—	—	—	
17	·331	·262	·057	—	·013	—	—	—	
18	·264	·264	—	—	—	·019	—	—	
19	·227	·288	—	—	—	·039	—	—	
20	·329	·290	—	—	—	—	—	—	
21	·202	·202	—	—	—	—	—	—	
22	·228	·228	—	—	—	—	—	—	
23	·456	·456	—	—	—	—	—	—	
24	·323	·288	·016	—	·019	—	—	—	
25	·210	·118	·069		·020	·003			
26	·156	·121	—	—	·027	—	·008	—	
योग	7.841	6.584	0.425	—	0.650	·157	0.017	—	—

महोदय, तैयार किया।

31.10.2021

खसरा

ग्राम- करकली रा०उप नि०क्षेत्र- तुपेड तहसील एवं जिला- वीरेश्वर I

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
212 मा०	०.००७	44	ब० का० आ०	—	—	—	·००७				
213 मा०	·००४	45	[illegible]	—	—	—	—	·००४			
214	·०२४	57	साधोसिंह वे० विश्वसिंह	·०२४							
215	·०२०	57	ऐ० —	·०२०							
216	·००७	57	ऐ० —	·००७							
217	·००७	48	[illegible]	—	—	—	—	·००७			
218	·०११	57	साधोसिंह आदि	·०११							
219	·०१५	57	ऐ० —	·०१५							
220	·०१४	15	गुमानसिंह वे० विश्वसिंह	·०१४							
221	·००५	15	ऐ० —	·००५							
222	·००५	15	ऐ० —	·००५							
223	·०१९	15	ऐ० —	·०१९							
224	·०१५	15	ऐ० —	·०१५							
225	·००७	15	ऐ० —	·००७							
226	·०२१	15	ऐ० —	·०२१							
227	·०१७	15	ऐ० —	·०१७							
228	·००७	15	ऐ० —	·००७							
229	·०११	15	ऐ० —	·०११							
230	·०१३	15	ऐ० —	·०१३							
231	·०१०	15	ऐ० —	·०१०							
232	·०२५	44	ब० का० आ०	—	—	—	·०२५				
233	·०१५	44	ब० का० आ०	—	—	—	·०१५				
234	·००३	22	[illegible]	—	·००३						
235	·००५	41	[illegible]	—	·००५						
236	·०१५	22	[illegible]	—	·०१५						
237	·०१०	41	[illegible]	—	·०१०						
योग	·३१६			·२२१	·०३२	—	·०४७	·०१६			

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(ख)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
238	·009	22	अपालगिहें आदि	—	·009						
239	·013	41	जानकी देवी आदि	—	·013						
240	·011	22	अपालगिहें आदि	—	·011						
241	·020	41	जानकी देवी आदि	—	·020						
242	·021	45	खाल	—	—	—	—	·021			
243	·004	46	शूल	—	—	—	—	·004			
244	·010	19	नन्दनगिहें ब्रेन्पदमगिहें	—	·010						
245	·008	19	रेख	—	·008						
246	·006	19	रेख	—	·006						
247	·005	19	रेख	—	·005						
248	·008	19	रेख	—	·008						
249म०	·004	19	रेख	—	·004						
250म०	·010	44	ब० का० आ०	—	—	—	·010				
251म०	·010	44	ब० का० आ०	—	—	—	·010				
252म०	·001	48	रौली	—	—	—	·001				
253	·019	31	देवराम वे० सीकलाल	—	·019						
254	·014	31	रेख	—	·014						
255	·005	31	रेख	—	·005						
256	·011	31	रेख	—	·011						
257म०	·015	54	रास्ता	—	—	—	—	·015			
260म०	·006	34	देवराम वे० मेहनराम	·006							
270म०	·003	34	रेख	·003							
271म०	·010	34	रेख	·010							
272	·008	34	रेख	·008							
273	·030	22	जीगाराम वे० लक्ष्मीराम	·030							
274	·019	34	देवराम आदि	·019							
योग	·280			·076	·143	—	·021	·040			

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
275	·010	34	देवराम आदि	·010							
276	·010	34	ऐ०	·010							
277	·023	22	जीगाराम आदि	·023							
278म०	·020	22	ऐ०	·020							
279म०	·009	44	क०का० आ०	—	—	—	·009				
280	·010	22	जीगाराम आदि	·010							
281	·011	22	ऐ०	·011							
282	·006	34	देवराम आदि	·006							
283	·023	22	जीगाराम आदि	·023							
284म०	·016	22	ऐ०	·016							
285म०	·015	22	ऐ०	·015							
286म०	·005	22	ऐ०	·005							
287म०	·015	22	ऐ०	·015							
288म०	·004	22	ऐ०	·004							
289म०	·003	22	ऐ०	·003							
305म०	·001	22	ऐ०	·001							
306म०	·006	22	ऐ०	·006							
307म०	·010	22	ऐ०	·010							
308म०	·006	22	ऐ०	·006							
309म०	·006	22	ऐ०	·006							
310म०	·010	22	ऐ०	·010							
311म०	·006	22	ऐ०	·006							
313म०	·018	22	ऐ०	·018							
863म०	·010	22	ऐ०	·010							
864म०	·020	22	ऐ०	·020							
865म०	·020	22	ऐ०	·020							
योग	·293			·284	—	—	·009				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
866	·018	22	भोगराम आदि	·018							
867म०	·003	22	ऐ०	·003							
868म०	·015	22	ऐ०	·015							
869	·018	22	भोगाराम आदि	·018							
870	·006	22	ऐ०	·006							
871	·024	22	ऐ०	·024							
872	·018	22	ऐ०	·018							
873म०	·020	22	ऐ०	·020							
874म०	·009	57	लाधोसिंह आदि	·009							
875म०	·001	57	ऐ०	·001							
876म०	·006	57	ऐ०	·006							
891म०	·003	34	देवराम आदि	·003							
892म०	·010	34	ऐ०	·010							
893म०	·001	34	ऐ०	·001							
894म०	·006	34	ऐ०	·006							
895म०	·006	34	ऐ०	·006							
896	·005	34	ऐ०	·005							
897	·010	34	ऐ०	·010							
898	·010	31	देवराम वे० मोहनलाल	—	·010						
899	·004	31	ऐ०	—	·004						
900	·009	31	ऐ०	—	·009						
901	·004	31	ऐ०	—	·004						
902	·004	19	नन्दसिंह आदि	—	·004						
903	009	44	बक० आ०	—	—	—	·009				
904	·009	57	लाधोसिंह आदि	·009							
905	·009	57	ऐ०	·009							
योग	·237			·197	·031	—	·009				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
906	·025	31	देवराम आदि		·025						
907	·014	57	साधोसिंह आदि	·014							
908	·030	22	जोगाराम आदि	·030							
909	·025	22	ऐ०	·025							
910	·028	57	साधोसिंह आदि	·028							
911	·013	22	जोगाराम आदि	·013							
912	·058	57	साधोसिंह आदि	·058							
913	·015	19	चंचलसिंह वे० हयातसिंह	·015							
914	·009	19	ऐ०	·009							
915	·008	57	साधोसिंह आदि	·008							
916	·035	44	ब० का० आ०	—	—	—	·035				
917	·024	15	भुवानसिंह आदि	·024							
918	·018	57	साधोसिंह आदि	·018							
919	·005	44	ब० का० आ०	—	—	—	·005				
920	·010	57	साधोसिंह आदि	·010							
921	·010	57	ऐ०	·010							
922	·005	44	ब० का० आ०	—	—	—	·005				
923	·008	15	भुवानसिंह आदि	·008							
924	·013	15	ऐ०	·013							
925	·013	15	ऐ०	·013							
926	·010	44	ब० का० आ०	—	—	—	·010				
927	·020	15	भुवानसिंह आदि	·020							
928	·023	15	ऐ०	·023							
929	·023	15	ऐ०	·023							
930	·025	15	ऐ०	·025							
931	·010	15	ऐ०	·010							
योग	·467			·387	·025	—	·055				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
932	·005	44	ब० का० आ०	—	—	—	·005				
933	·013	15	गुमानसिंह आदि	·013							
934	·009	15	ऐ० —	·009							
935	·023	57	साधोसिंह आदि	·023							
936	·021	57	ऐ० —	·021							
937	·030	57	ऐ० —	·030							
938	·036	15	गुमानसिंह आदि	·036							
939	·070	57	साधोसिंह आदि	·070							
940	·006	57	ऐ० —	·006							
941	·004	57	ऐ० —	·004							
942	·009	57	ऐ० —	·009							
943	·034	57	ऐ० —	·034							
944	·020	57	ऐ० —	·020							
945	·016	57	ऐ० —	·016							
946	·005	57	ऐ० —	·005							
947	·009	57	ऐ० —	·009							
948	·005	57	ऐ० —	·005							
949	·006	44	ब० का० आ०	—	—	—	·006				
950	·018	48	सैली	—	—	—	—	·018			
951	·009	15	गुमानसिंह आदि	·009							
952	·006	15	ऐ० —	·006							
953	·005	15	ऐ० —	·005							
954	·009	15	ऐ० —	·009							
955	·003	15	ऐ० —	·003							
956	·010	15	ऐ० —	·010							
957	·008	15	ऐ० —	·008							
योग	·405			·376	—	—	·011	·018			

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
958	·005	15	सुभानसिंह आदि	·005							
959	·005	15	सं०	·005							
960	·009	15	सं०	·009							
961	·035	15	सुभानसिंह आदि	·035							
962	·005	15	सं०	·005							
963	·005	15	सं०	·005							
964	·005	15	सं०	·005							
965	·010	15	सं०	·010							
966	·006	15	सं०	·006							
967	·004	15	सं०	·004							
968	·005	15	सं०	·005							
969	·005	15	सं०	·005							
970	·003	15	सं०	·003							
971	·006	15	सं०	·006							
972	·004	15	सं०	·004							
973	·004	15	सं०	·004							
974	·004	15	सं०	·004							
975	·004	15	सं०	·004							
976	·006	15	सं०	·006							
977	·025	15	सं०	·025							
978	·008	15	सं०	·008							
979	·004	15	सं०	·004							
980	·010	15	सं०	·010							
981	·005	15	सं०	·005							
982	·023	15	सं०	·023							
983	·004	15	सं०	·004							
योग	·209			·209							

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खसरा नम्बर	रकबा हेक	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
984	·009	15	शुभानसिंह आदि	·009							
985	·008	15	ऐ०	·008							
986	·003	57	साधोसिंह आदि	·003							
987	·016	57	ऐ०	·016							
988	·005	57	ऐ०	·005							
989	·019	44	ब० का० आ०	—	—	—	·019				
990	·005	44	ऐ०	—	—	—	·005				
991	·005	44	ऐ०	—	—	—	·005				
992	·009	57	साधोसिंह आदि	·009							
993	·008	44	ब० का० आ०	—	—	—	·008				
994	·008	44	ब० का० आ०	—	—	—	·008				
995	·015	15	शुभानसिंह आदि	·015							
996	·010	15	ऐ०	·010							
997	·010	15	ऐ०	·010							
998	·019	15	ऐ०	·019							
999	·015	22	प्रीमाराम आदि	·015							
1000	·020	22	ऐ०	·020							
1001	·015	22	ऐ०	·015							
1002	·014	22	ऐ०	·014							
1003/10	·018	22	ऐ०	·018							
1004/10	·001	44	ब० का० आ०	—	—	—	·001				
1005	·011	05	कुन्दनलाल वै० नन्दलाल	·011							
1006/10	·009	05	ऐ०	·009							
1007	·005	05	ऐ०	·005							
1008/10	·014	05	ऐ०	·014							
1009/10	·013	05	ऐ०	·013							
योग	·204			·238	—	—	·046				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1010	·020	05	कुन्दनलाल आदि	·020							
1011	·021	05	ऐ०	·021							
1012म०	·023	05	ऐ०	·023							
1014म०	·010	35	हरनसिंह आदि	·010							
1015म०	·006	35	ऐ०	·006							
1016म०	·010	35	ऐ०	·010							
1042म०	·010	44	ब० का० आ०	—	—	—	·010				
1045म०	·015	35	हरनसिंह आदि	·015							
1046	·009	35	ऐ०	·009							
1047	·004	35	ऐ०	·004							
1048म०	·023	39	बचीसिंह आदि	·023							
1049	·031	13	केसरसिंह वगैरहनानसिंह आदि	·031							
1050	·008	13	ऐ०	·008							
1051म०	·010	13	ऐ०	·010							
1052	·026	44	ब० का० आ०	—	—	—	·026				
1053म०	·018	50	रामसिंह आदि	·018							
1105म०	·021	50	ऐ०	·021							
1106म०	·006	44	ब० का० आ०	—	—	—	·006				
1107	·010	05	केशरसिंह आदि	—	·010						
1108	·015	05	ऐ०	—	·015						
1109	·010	44	ब० का० आ०	—	—	—	·010				
1110	·026	50	रामसिंह आदि	·026							
1111	·026	50	ऐ०	026							
1112	·021	50	ऐ०	·021							
1113	·020	50	ऐ०	·020							
1114	·029	50	ऐ०	·029							
योग	·420			·357	·025	—	·052				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(ङ)	श्रेणी 9(3)ग	श्रेणी 9(3)घ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1141	·005	40	बलवन्तसिहं आदि	·005							
1142	·006	39	बचेसिहं आदि	·006							
1143	·008	13	केशरसिहं वैश्यवानसिहंक०	·008							
1144	·011	13	ऐ०	·011							
1145	·014	13	ऐ०	·014							
1146	·009	13	ऐ०	·009							
1147	·008	13	ऐ०	·008							
1148	·011	40	बलवन्तसिहं आदि	·011							
1149	·016	40	ऐ०	·016							
1150	·008	40	ऐ०	·008							
1151	·010	39	बचेसिहं आदि	·010							
1152	·004	40	बलवन्तसिहं आदि	·004							
1153	·015	40	ऐ०	·015							
1154	·011	13	केशरसिहं आदि	·011							
1155	·020	40	बलवन्तसिहं आदि	·020							
1156	·013	40	ऐ०	·013							
1157	·010	40	ऐ०	·010							
1158	·015	44	झम्मनसिहं आदि	·015							
1159	·011	44	ऐ०	·011							
1160	·014	50	एकसिहं आदि	·014							
1161	·009	50	ऐ०	·009							
1162	·004	44	ब० का० आ०	—	—	—	·004				
1163	·010	44	ब० का० आ०	—	—	—	·010				
1164	·021	48	रीती	—	—	—	—	·021			
1165	·005	13	केशरसिहं आदि	·005							
1166	·006	13	ऐ० —	·006							
योग	·274			·239	—	—	·014	·021			

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1167	·001	48	~~शैली~~	—	—	—	—	·001			
1168	·005	57	साधोसिंह आदि	·005							
1169	·006	57	~~ऐ०~~	·006							
1170	·004	44	~~बे० का० आ०~~	—	—	—	·004				
1171	·005	57	साधोसिंह आदि	·005							
1172	·013	57	~~ऐ०~~	·013							
1173	·006	57	~~ऐ०~~	·006							
1174	·016	57	~~ऐ०~~	·016							
1175	·010	44	~~भूपालसिंह आदि~~	·010							
1176	·009	57	साधोसिंह आदि	·009							
1177	·011	57	~~ऐ०~~	·011							
1178	·005	57	~~ऐ०~~	·005							
1179	·008	15	~~कुमानसिंह आदि~~	·008							
1180	·006	15	~~ऐ०~~	·006							
1181	·010	15	~~ऐ०~~	·010							
1182	·010	15	~~ऐ०~~	·010							
1183	·004	15	~~ऐ०~~	·004							
1184	·015	15	~~ऐ०~~	·015							
1185	·015	57	साधोसिंह आदि	·015							
1186	·015	57	~~ऐ०~~	·015							
1187	·006	57	~~ऐ०~~	·006							
1188	·009	48	~~शैली~~	—	—	—	—	—	·009		
1189म०	·023	44	~~बे० का० आ०~~	—	—	—	·023				
1190म०	·003	30	~~प्रेमसिंह आदि~~	·03							
1191म०	·003	30	~~ऐ०~~	·003							
1192म०	·005	44	~~बे० का० आ०~~	—	—	—	·005				
योग	·223			·181	—	—	·032	·001	·009		

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(ङ)	श्रेणी 7(ङ)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1194म०	·015	44	ब० का० आ०	—	—	—	·015				
1195म०	·003	30	प्रेमसिंह आदि	·003							
1196म०	·003	30	ऐ०	·003							
1197म०	·003	30	ऐ०	·003							
1199म०	·001	44	ब० का० आ०	—	—	—	·001				
1200म०	·001	30	प्रेमसिंह आदि	·001							
1201म०	·001	30	प्रेमसिंह आदि	·001							
(1)	—	—	—	—	—	—	—				
1245म०	·045	44	ब० का० आ०	—	—	—	·045				
1246	·008	26	दीवानसिंह आदि	·008							
1247	·006	26	ऐ०	·006							
1248	·006	26	ऐ०	·006							
1249	·008	26	ऐ०	·008							
1250	·010	26	ऐ०	·010							
1251	·005	26	ऐ०	·005							
1252	·010	26	ऐ०	·010							
1253म०	·013	44	ब० का० आ०	—	—	—	·013				
1254	·018	44	ब० का० आ०	—	—	—	·018				
1255	·023	26	दीवानसिंह आदि	·023							
1256	·014	26	ऐ०	·014							
1257	·004	44	ब० का० आ०	—	—	—	·004				
1258	·009	26	दीवानसिंह आदि	·009							
1259	·006	44	ब० का० आ०	—	—	—	·006				
1260म०	·013	26	दीवानसिंह आदि	·013							
1261	·006	26	ऐ०	·006							
1262	·004	44	ब० का० आ०	—	—	—	·004				
योग	·235			·129	—	—	·106				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1263	·026	26	दीवानसिंह आदि	·026							
1264	·008	26	ऐ०	·008							
1265	·026	26	ऐ०	·026							
1266	·026	26	ऐ०	·026							
1267	·001	26	ऐ०	·001							
1268	·004	26	ऐ०	·004							
1269	·004	26	ऐ०	·004							
1270	·014	26	ऐ०	·014							
1271	·004	44	बे० का० आ०	—	—	—	·004				
1272	·011	26	दीवानसिंह आदि	·011							
1273	·011	44	बे० का० आ०	—	—	—	·011				
1274	·030	26	दीवानसिंह आदि	·030							
1275	·013	44	बे० का० आ०	—	—	—	·013				
1276	·008	26	दीवानसिंह आदि	·008							
1277	·004	26	ऐ०	·004							
1278	·030	57	साधोसिंह आदि	·030							
1279	·020	57	ऐ०	·020							
1280	·018	57	ऐ०	·018							
1281	·013	57	ऐ०	·013							
1282	·009	57	ऐ०	·009							
1283	·006	43	भूपालसिंह आदि	·006							
1284	·006	43	ऐ०	·006							
1285	·013	57	साधोसिंह आदि	·013							
1286	·031	57	ऐ०	·031							
1287	·014	43	भूपालसिंह आदि	·014							
1288	·030	43	ऐ०	·030							
योग	·380			·352	—	—	·028				

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खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(ख)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1289	·025	43	अपालसिंह आदि	·025							
1290	·024	17	गोपालसिंह आदि	·024							
1291	·030	17	ऐ—	·030							
1292	·015	17	ऐ—	·015							
1293	·025	43	अपालसिंह आदि	·025							
1294	·019	44	को का आ०	—	—	—	·019				
1295	·031	57	जोधासिंह आदि	·031							
1296	·011	44	को का आ०	—	—	—	·011				
1297	·019	26	दीवानसिंह आदि	·019							
1298	·009	44	को का आ०	—	—	—	·009				
1299	·011	26	दीवानसिंह आदि	0·011							
1300	·020	26	दीवानसिंह आदि	·020							
1301	·016	26	ऐ—	·016							
1302मा०	·020	44	को का आ०	—	—	—	·020				
1303मा०	·001	44	को का आ०	—	—	—	·001				
1304	·023	57	जोधासिंह आदि	·023							
1305	·008	57	ऐ—	·008							
1306	·005	57	ऐ—	·005							
1307	·003	57	ऐ—	·003							
1308	·010	57	ऐ—	·010							
1309	·013	57	ऐ—	·013							
1310	·010	57	ऐ—	·010							
1311	·013	57	ऐ—	·013							
1312	·009	57	ऐ—	·009							
1313	·018	57	ऐ—	·018							
1314	·006	57	ऐ—	·006							
योग	·394			·334	—	—	·060				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1315	·009	57	हरधोखिहं अदि	·009							
1316	·004	57	ऐ—	·004							
1317	·015	44	ब० का० आ०	—	—	—	·015				
1318	·024	17	गोपालसिहं आदि	·024							
1319	·005	44	ब० का० आ०	—	—	—	·005				
1320	·006	15	बुधानसिहं आदि	·006							
1321	·006	15	ऐ—	·006							
1322	·010	15	ऐ—	·010							
1323	·003	44	ब० का० आ०	—	—	—	·003				
1324	·018	17	गोपालसिहं आदि	·018							
1325	·025	17	ऐ—	·025							
1326	·014	17	ऐ—	·014							
1327	·006	17	ऐ—	·006							
1328	·011	20	जगदीशसिहं केसरसिहं	·011							
1329	·013	20	ऐ—	·013							
1330	·010	20	ऐ—	·010							
1331	·013	44	ब० का० आ०	—	—	—	·013				
1332	·019	57	हरधोखिहं अदि	·019							
1333	·004	44	ब० का० आ०	—	—	—	·004				
1334	·010	35	रतनसिहं आदि	—	·010						
1335	·014	44	ब० का० आ०	—	—	—	·014				
1336/मा०	·005	44	ब० का० आ०	—	—	—	·005				
1337/मा०	·005	25	उतमसिहं आदि	—	·005						
1338/मा०	·006	25	ऐ—	—	·006						
1339/मा०	·006	25	ऐ—	—	·006						
1340/मा०	·021	44	ब० का० आ०	—	—	—	·021				
योग	·269			·175	·027	—	·067				

खसरा नम्बर	रकबा ऐ०	आराजी संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1341	·008	35	रतनसिंह आदि	—	·008						
1342	·010	17	गोपालसिंह आदि	·010							
1343	·011	17	ऐ० —	·011							
1344	·013	17	ऐ० —	·013							
1345	·014	43	भूपालसिंह आदि	·014							
1346	·008	43	ऐ० —	·008							
1347	·013	44	ब० का० उमरा	—	—	—	·013				
1348	·018	43	भूपालसिंह आदि	·018							
1349	·006	17	गोपालसिंह आदि	·006							
1350	·005	17	ऐ० —	·005							
1351	·001	17	ऐ० —	·001							
1352	·024	43	भूपालसिंह आदि	·024							
1353	·014	43	ऐ० —	·014							
1354	·011	44	भूपालसिंह आदि	·011							
1355	·024	10	कुन्दनसिंह पुन्नीलालसिंह	·024							
1356	·024	10	ऐ० —	·024							
1357	·009	20	जगतसिंह आदि	·009							
1358	·009	36	नन्दनसिंह आदि	·009							
1359	·006	19	नन्दनसिंह आदि	—	·006						
1360	·013	19	ऐ० —	—	·013						
1361	·020	19	ऐ० —	—	·020						
1362	·010	19	ऐ० —	—	·010						
1363	·015	13	केशरसिंह आदि	·015							
1364	·010	13	ऐ० —	·010							
1365	·030	40	बलवन्तसिंह आदि	·030							
1366	·006	40	ऐ० —	·006							
योग	·332			·262	·057	—	·013				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(ङ)	श्रेणी 7(ङ)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1367मा०	·025	50	रामसिंह आदि	·025							
1368	·001	50	ऐ०	·001							
1369मा०	·003	50	ऐ०	·003							
1370मा०	·001	50	ऐ०	·001							
1371मा०	·020	35	चन्नसिंह आदि	·020							
1372	·010	10	खुशनसिंह आदि	·010							
1373	·009	17	गोपालसिंह आदि	·009							
1374	·006	17	ऐ०	·006							
1375	·001	17	ऐ०	·001							
1376	·004	17	ऐ०	·004							
1377	·011	15	खुमानसिंह आदि	·011							
1378	·024	17	गोपालसिंह आदि	·024							
1379	·001	17	ऐ०	·001							
1380	·006	17	ऐ०	·006							
1381	·005	17	ऐ०	·005							
1382	·005	35	चन्नसिंह आदि	·005							
1383	·004	35	ऐ०	·004							
1384	·030	35	ऐ०	·030							
1385	·025	35	ऐ०	·025							
1386मा०	·010	35	ऐ०	·010							
1388मा०	·010	50	रामसिंह आदि	·010							
1389	·010	50	ऐ०	·010							
1390मा०	·004	20	भगवानसिंह आदि	·004							
1392मा०	·006	37	नरसिंह आदि	·006							
1394मा०	·006	44	आलमसिंह आदि	·006							
1395मा०	·006	44	ऐ०	·006							
योग	·264			·264							

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1396	·043	44	गूपालसिंह आदि	·043							
1397	·023	44	ऐ—	·023							
1398	·005	44	ऐ—	·005							
1399म०	·006	36	नन्हेसिंह आदि	·006							
1402म०	·018	31	दीवानसिंह आदि	·018							
1403	·013	23	भोगासिंह आदि	·013							
1404	·004	23	ऐ—	·004							
1405	·004	37	नरसिंह आदि	·004							
1406	·011	20	जगदीशसिंह आदि	·011							
1407	·006	20	ऐ—	·006							
1408	·006	20	ऐ—	·006							
1409	·008	12	कुशलसिंह वै० आनंदसिंह म०	·008							
1410	·018	54	लालसिंह आदि	·018							
1411म०	·001	54	ऐ—	·001							
1412म०	·010	39	बचेसिंह आदि	·010							
1414म०	·006	40	बलवन्तसिंह आदि	·006							
1415म०	·003	40	ऐ—	·003							
1416म०	·003	40	ऐ—	·003							
1423म०	·015	40	ऐ—	·015							
1424म०	·003	40	ऐ—	·003							
1425म०	·008	40	ऐ—	·008							
1427म०	·010	40	ऐ—	·010							
1429म०	·010	15	गुमानसिंह आदि	·010							
1469म०	·019	48	रीछी	—	—	—	—	·019			
1475म०	·001	39	बचेसिंह आदि	·001							
1476म०	·003	39	बचेसिंह आदि	·003							
योग	·227	—		·208	—	—	—	·019			

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1478/0	·018	35	धनसिंह आदि	·018							
1479/0	·003	35	ऐ०	·003							
1480/0	·008	13	केसरसिंह आदि	·008							
1481	·010	50	रामसिंह आदि	·010							
1482	·008	44	अमानसिंह आदि	·008							
1483	·036	48	डीली	—	—	—	—	·036			
1484	·003	48	ऐ०	—	—	—	—	·003			
1485	·018	50	रामसिंह आदि	·018							
1486	·008	50	ऐ०	·008							
1487	·008	50	ऐ०	·008							
1488	·021	44	अमानसिंह आदि	·021							
1489	·011	44	ऐ०	·011							
1490	·013	40	बख्तसिंह आदि	·013							
1491	·013	50	रामसिंह आदि	·013							
1492	·014	50	ऐ०	·014							
1493	·013	35	धनसिंह आदि	·013							
1494	·014	50	रामसिंह आदि	·014							
1495	·001	35	धनसिंह आदि	·001							
1496	·028	50	रामसिंह आदि	·028							
1497	·010	50	ऐ०	·010							
1498	·011	50	ऐ०	·011							
1499	·008	10	बुद्धनसिंह आदि	·008							
1500	·010	10	ऐ०	·010							
1501	·023	37	नरसिंह आदि	·023							
1502	·014	35	धनसिंह आदि	·014							
1503	·005	35	ऐ०	·005							
योग	·329			·290	—	—	—	·039			

खसरा नम्बर	रकबा हे0	खाता संख्या	नाम खातेदार	श्रेणी 1(ङ)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1504	·010	44	दयालसिंह आदि	·010							
1505	·011	44	ऐ०	·011							
1506	·014	44	ऐ०	·014							
1507	·006	37	नरसिंह आदि	·006							
1508	·005	37	ऐ०	·005							
1509	·016	35	घनसिंह आदि	·016							
1510	·005	20	जगदीशसिंह आदि	·005							
1511मा0	·010	20	ऐ०	·010							
1514मा0	·020	35	घनसिंह आदि	·020							
1515मा0	·010	35	ऐ०	·010							
1516	·009	13	केशरसिंह आदि	·009							
1517	·009	35	घनसिंह आदि	·009							
1518	·004	35	ऐ०	·004							
1519	·005	50	रामजिंह आदि	·005							
1520	·008	50	ऐ०	·008							
1521	·004	50	ऐ०	·004							
1522	·004	13	केशरसिंह आदि	·004							
1523	·010	50	रामजिंह आदि	·010							
1524मा0	·005	13	केशरसिंह आदि	·005							
1525मा0	·006	13	ऐ०	·006							
1526मा0	·003	50	रामजिंह आदि	·003							
1527मा0	·004	50	ऐ०	·004							
1528मा0	·005	50	ऐ०	·005							
1530मा0	·004	50	ऐ०	·004							
1531मा0	·009	50	ऐ०	·009							
1532	·006	44	दयालसिंह आदि	·006							
योग	·202			·202							

खसरा नम्बर	रकबा हेक्टेयर	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1533/0	0.001	44	अमोलसिंह आदि	0.001							
1569/0	0.010	39	बचैसिंह आदि	0.010							
1571/0	0.010	37	नरसिंह आदि	0.010							
1572	0.004	37	ऐ०	0.004							
1573	0.005	50	रामसिंह आदि	0.005							
1574	0.009	10	बुधनसिंह आदि	0.009							
1575	0.010	10	ऐ०	0.010							
1576	0.005	50	रामसिंह आदि	0.005							
1577	0.006	39	बचैसिंह आदि	0.006							
1578	0.001	39	ऐ०	0.001							
1579/0	0.006	39	ऐ०	0.006							
1580	0.004	39	ऐ०	0.004							
1581/0	0.003	39	ऐ०	0.003							
1582/0	0.001	40	बलवन्तसिंह आदि	0.001							
1586/0	0.003	40	ऐ०	0.003							
1588/0	0.004	40	ऐ०	0.004							
1589	0.016	40	ऐ०	0.016							
1590	0.009	50	रामसिंह आदि	0.009							
1591	0.005	50	ऐ०	0.005							
1592	0.005	40	बलवन्तसिंह आदि	0.005							
1593	0.010	40	ऐ०	0.010							
1594	0.019	39	बचैसिंह आदि	0.019							
1595	0.015	39	ऐ०	0.015							
1596	0.023	50	रामसिंह आदि	0.023							
1597	0.011	50	ऐ०	0.011							
1598	0.011	44	अमोलसिंह आदि	0.011							
योग	0.220			0.220							

खसरा नम्बर	रकबा हे0	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1599	·011	44	अजीतसिंह आदि	·011							
1600	·024	13	केशरसिंह आदि	·024							
1601	·066	39	बचेसिंह आदि	·066							
1602	·008	39	ऐ०	·008							
1603	·008	39	ऐ०	·008							
1604/0	·015	13	केशरसिंह आदि	·015							
1607/0	·010	39	बचेसिंह आदि	·010							
1608	·010	39	ऐ०	·010							
1609/0	·005	54	लालसिंह आदि	·005							
1613/0	·020	35	धनसिंह आदि	·020							
1614/0	·021	35	ऐ०	·021							
1615	·009	35	ऐ०	·009							
1616	·049	13	केशरसिंह आदि	·049							
1617	·014	13	ऐ०	·014							
1618	·018	13	ऐ०	·018							
1619	·026	35	धनसिंह आदि	·026							
1620	·006	35	ऐ०	·006							
1621	·006	35	ऐ०	·006							
1622	·014	40	बलवन्तसिंह आदि	·014							
1623	·025	35	धनसिंह आदि	·025							
1624	·008	80	अमरसिंह आदि	·008							
1625	·010	20	ऐ०	·010							
1626	·031	20	ऐ०	·031							
1627	·009	20	ऐ०	·009							
1628	·009	20	ऐ०	·009							
1629	·024	20	ऐ०	·024							
योग	·456			·456							

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1630	·016	20	जगदीशसिंह आदि	·016							
1631	·009	23	भौगासिंह आदि	·009							
1632	·009	23	ऐ०	·009							
1633	·009	23	ऐ०	·009							
1634	·004	44	को० का० आ०	—	—	—	·004				
1635	·019	44	झूमालसिंह आदि	·019							
1636	·010	44	ऐ०	·010							
1637 म०	·010	35	धनसिंह आदि	·010							
1642 म०	·015	35	ऐ०	·015							
1643 म०	·020	50	रोकसिंह आदि	·020							
1644 म०	·020	10	कुन्दनसिंह आदि	·020							
1645 म०	·020	35	धनसिंह आदि	·020							
1693 म०	·020	35	ऐ०	·020							
1694	·015	44	झूमालसिंह आदि	·015							
1695	·015	44	ऐ०	·015							
1696 म०	·025	44	ऐ०	·025							
1701 म०	·018	31	जीवनसिंह आदि	·018							
1702	·009	44	को० का० आ०	—	—	—	·009				
1703 म०	·003	44	को० का० आ०	—	—	—	·003				
1705 म०	·003	44	को० का० आ०	—	—	—	·003				
1706 म०	·003	39	कुन्दनसिंह आदि	—	·003						
1707	·009	39	कुन्दनसिंह आदि	—	·009						
1708 म०	·004	39	ऐ०	—	·004						
1709 म०	·003	31	जीवनसिंह आदि	·003							
1724 म०	·025	20	जगदीशसिंह आदि	·025							
1725 म०	·010	20	ऐ०	·010							
योग	·323			·200	·016	—	·019				

खसरा नम्बर	रकबा हे०	खाता संख्या	नाम खातेदार	श्रेणी 1(क)	श्रेणी 7(क)	श्रेणी 9(3)ग	श्रेणी 9(3)ङ	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
1726म०	·011	20	जगदीशसिंह आदि	·011							
3500म०	·003	48	[illegible]	—	—	—	—	·003			
3501म०	·004	44	गोपालसिंह आदि	·004							
3502	·003	44	ऐ०	·003							
3503	·006	44	ऐ०	·006							
3504	·006	44	ऐ०	·006							
3505म०	·010	43	गोपालसिंह आदि	·010							
3506	·005	43	ऐ०	·005							
3507	·006	43	ऐ०	·006							
3508	·014	17	गोपालसिंह आदि	·014							
3509	·025	17	ऐ०	·025							
3510	·013	43	गोपालसिंह आदि	·013							
3511	·006	43	ऐ०	·006							
3512	·009	43	ऐ०	·009							
3513	·008	17	देवसिंह आदि	—	·008						
3514	·006	35	रतनसिंह आदि	—	·006						
3515	·006	35	ऐ०	—	·006						
3516	·006	35	ऐ०	—	·006						
3517	·008	35	ऐ०	—	·008						
3518	·004	35	ऐ०	—	·004						
3519	·009	35	ऐ०	—	·009						
3520	·008	35	ऐ०	—	·008						
3521	·008	35	ऐ०	—	·008						
3522	·005	35	ऐ०	—	·005						
3523म०	·001	35	ऐ०	—	·001						
3524म०	·020	44	बी० सी० आई०	—	—	—	·020				
योग	·210			·118	·069	—	·020	·003			

खसरा नम्बर	रकबा है०	खाता संख्या	नाम खातेदार	श्रेणी 1(ब)	श्रेणी 7(ब)	श्रेणी 9(3)ग	श्रेणी 9(3)ड	श्रेणी 10(1)	श्रेणी 10(2)	श्रेणी 10(4)	विवरण
3530म०	·001	44	ब० का० आ०	—	—	—	·001				
3564म०	·003	38	प्रेमसिंह आदि	·003							
3565म०	·001	38	ऐ० —	·001							
3566म०	·003	38	ऐ० —	·003							
3567	·003	44	ब० का० आ०	—	—	—	·003				
3568म०	·005	38	प्रेमसिंह आदि	·005							
3569म०	·008	24	ध्वानसिंह व० केशरसिंह	·008							
3570म०	·003	24	ऐ० —	·003							
3571म०	·003	24	ऐ० —	·003							
3572म०	·015	24	ऐ० —	·015							
3573	·010	24	ऐ० —	·010							
3574म०	·001	44	ब० का० आ०	—	—	—	·001				
3575म०	·011	24	ध्वानसिंह आदि	·011							
3576म०	·008	24	ऐ० —	·008							
3577म०	·008	24	ऐ० —	·008							
3578म०	·006	24	ऐ० —	·006							
3579म०	·020	44	ब० का० आ०	—	—	—	·020				
3580म०	·008	54	रास्ता	—	—	—	—	—	·008		
3581म०	·001	44	ब० का० आ०	—	—	—	·001				
3582म०	·001	44	ब० का० आ०	—	—	—	·001				
1148/7479	·005	44	भूपालसिंह आदि	·005							
383/7478	·005	44	ऐ० —	·005							
1498/7481	·009	10	फुन्दनसिंह आदि	·009							
1406/7478	·004	23	ध्वानसिंह आदि	·004							
1500/7480	·008	60	हिम्मतसिंह आदि	·008							
1572/7482	·006	37	नरसिंह आदि	·006							
योग	·156			·121	—	—	·027	—	·008		

महोदय, तैयार किया।

24/10/21
(तपेश)

Annexure- 5

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

e-Stamp
REVADHAR KANSERI
ID No 1267804
Stamp Vendor Bageshwar

सत्यमेव जयते

Certificate No.	:	IN-UK788038482844406Q
Certificate Issued Date	:	20-Aug-2018 07:33 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK1267804609447394813110
Purchased by	:	SHIV SINGH SO TRILOK SINGH TUPER
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	SHIV SINGH SO TRILOK SINGH TUPER
Second Party	:	NA
Stamp Duty Paid By	:	SHIV SINGH SO TRILOK SINGH TUPER
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTARIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं शिव सिंह पुत्र श्री त्रिलोक सिंह उम्र लगभग निवासी ग्राम तुपेड़ पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि–

1. मैं जनपद बागेश्वर के ग्राम तुपेड़ का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

शिव सिंह

Statutory Alert:
1. The authenticity of this Stamp Certificate should be verified at www.shcilestamp.com. Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY GOVT. OF INDIA

RTS

Before me

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

e-Stamp

DEVADHAR KANSERI
ID No
Stamp Vendor Bageshwar

सत्यमेव जयते

Certificate No.	:	IN-UK79803571869026O
Certificate Issued Date	:	20-Aug-2018 07:29 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK126780460944292957699O
Purchased by	:	BHAWAN SINGH SO MADO SINGH KHULDOARI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	BHAWAN SINGH SO MADO SINGH KHULDOARI
Second Party	:	NA
Stamp Duty Paid By	:	BHAWAN SINGH SO MADO SINGH KHULDOARI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTARIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं भवान सिंह पुत्र श्री माडो सिंह उम्र ... निवासी ग्राम खुल्दोड़ी पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम खुल्दोड़ी का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

Statutory Alert:
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2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

(61)

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

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Government of Uttarakhand

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सत्यमेव जयते

Certificate No.	:	IN-UK76804318747028O
Certificate Issued Date	:	20-Aug-2018 07:52 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094576769732O
Purchased by	:	NAIN SINGH SO KALYAN SINGH KHULDOARI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	NAIN SINGH SO KALYAN SINGH KHULDOARI
Second Party	:	NA
Stamp Duty Paid By	:	NAIN SINGH SO KALYAN SINGH KHULDOARI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTARIAL

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अनापत्ति प्रमाण–पत्र

मैं नैनसिंह पुत्र श्री कल्याण सिंह उम्र वयस्क निवासी ग्राम खुलदौड़ी पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम खुलदौड़ी का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

Statutory Alert:

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2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

नि० [illegible]
हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
नि० [illegible]

NOTARY
S.S. TANWAR
Dist. Bharatpur
GOVT. OF INDIA
RTS '09

who Signed
Before me
BAGESHWAR
23.02.2011

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

सत्यमेव जयते

Certificate No.	:	IN-UK79840233286520
Certificate Issued Date	:	20-Aug-2018 07:47 PM
Account Reference	:	NONACC (SV)/ uk1287804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12878046094558489308 3Q
Purchased by	:	MOHAN SINGH SO BISHAN SINGH TUPER
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	MOHAN SINGH SO BISHAN SINGH TUPER
Second Party	:	NA
Stamp Duty Paid By	:	MOHAN SINGH SO BISHAN SINGH TUPER
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTARIAL

NOTARY

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अनापत्ति प्रमाण–पत्र

मैं मोहन सिंह पुत्र श्री बिशन सिंह उम्र लगभग निवासी ग्राम तुपेड़ पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम तुपेड़ का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

मोहन सिंह

RTS

Statutory Alert:

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2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY

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INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

सत्यमेव जयते

Certificate No.	:	IN-UK79804240221549Q
Certificate Issued Date	:	20-Aug-2018 07:49 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094562698261 3Q
Purchased by	:	BHAWAN SINGH SO BISHAN SINGH TUPER
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	BHAWAN SINGH SO BISHAN SINGH TUPER
Second Party	:	NA
Stamp Duty Paid By	:	BHAWAN SINGH SO BISHAN SINGH TUPER
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL

NOTARIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं भवान सिंह पुत्र श्री विशन सिंह उम्र वर्ष निवासी ग्राम तुपेड़ पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम तुपेड़ का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी रावत पत्नी श्री एम0एस0रावत म0न0 346/3, कलावती कलोनी, नवाबी रोड़, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

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4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

Sworn and Signed
Before me
GANESH SINGH MAJILA
NOTARY
Distt - Bageshwar (U K)

23.02.2024

सत्यमेव जयते

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

e-Stamp
REM DHAR KANSERI
ID No. UK 1267804
Stamp Vendor Bageshwar

Certificate No.	:	IN-UK79802012574907Q
Certificate Issued Date	:	20-Aug-2018 06:51 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094137792007 9Q
Purchased by	:	LACHHAM SINGH SO PADAM SINGH KAROOLI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	LACHHAM SINGH SO PADAM SINGH KAROOLI
Second Party	:	NA
Stamp Duty Paid By	:	LACHHAM SINGH SO PADAM SINGH KAROOLI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

सूचना अधिकार अधिनियम 2005 के अन्तर्गत जारी प्रमाण पत्र

जिला कार्यालय बागेश्वर

NOTARIAL NOTARIAL

NOTARY

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं ..... पुत्र ..... उम्र ..... निवासी ग्राम ..... पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम .....का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एन0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 रटार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

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4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

Solemnly affirmed and Signed Before me

सूचना अधिकार अधिनियम 2005 के अन्तर्गत प्रमाणित

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

सत्यमेव जयते

e-Stamp
REVADHAR KANSERI
ID No. 126780
Stamp Vendor Bageshwar

Certificate No.	:	IN-UK79809075210346O
Certificate Issued Date	:	20-Aug-2016 07:13 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094332006311 2Q
Purchased by	:	BHUPAL SINGH SO PREM SINGH KAROOLI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	BHUPAL SINGH SO PREM SINGH KAROOLI
Second Party	:	NA
Stamp Duty Paid By	:	BHUPAL SINGH SO PREM SINGH KAROOLI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTERIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं ..... पुत्र ..... उम्र 60 निवासी ग्राम .....
पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम .....का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाणी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

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4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY

BAGESHWAR (U.K.) INDIA

23.02.2021

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

सत्यमेव जयते

e-Stamp
REVADHAR KANDERI
ID No. UK-1287804
Stamp Vendor Bageshwar

Certificate No.	:	IN-UK79800649038823Q
Certificate Issued Date	:	20-Aug-2018 06:33 PM
Account Reference	:	NONACC (SV)/ uk1287804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12878046038409397356Q
Purchased by	:	HAYAT RAM SO LACHHI RAM KAROOLI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	HAYAT RAM SO LACHHI RAM KAROOLI
Second Party	:	NA
Stamp Duty Paid By	:	HAYAT RAM SO LACHHI RAM KAROOLI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

CANCELLED
NOTARIAL
NOTARIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं हयात राम पुत्र श्री लच्छी राम उम्र लगभग निवासी ग्राम करूली पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि–

1. मैं जनपद बागेश्वर के ग्राम करूली का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड़, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

हयात राम

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4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY GOVT. OF INDIA

RTS

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

सत्यमेव जयते

e-Stamp
DEVADHAR KANSERI
I D No. U. 126780
Stamp Vendor Bageshwar

Certificate No.	:	IN-UK79803883888731Q
Certificate Issued Date	:	20-Aug-2018 07:38 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094515775O012Q
Purchased by	:	CHANCHAL SINGH SO BIJE SINGH KAROOLI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	CHANCHAL SINGH SO BIJE SINGH KAROOLI
Second Party	:	NA
Stamp Duty Paid By	:	CHANCHAL SINGH SO BIJE SINGH KAROOLI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

23.07.2018

NOTARIAL

NOTARIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं ..... पुत्र ..... उम्र ..... निवासी ग्राम .....
पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम .....का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

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2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY GOVT.

RTS

and Signed Before me

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

सत्यमेव जयते

Certificate No.	:	IN-UK78803721772607Q
Certificate Issued Date	:	20-Aug-2018 07:37 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094509137515 9Q
Purchased by	:	BALWAN SINGH SO TRILOK SINGH TUPER
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	BALWAN SINGH SO TRILOK SINGH TUPER
Second Party	:	NA
Stamp Duty Paid By	:	BALWAN SINGH SO TRILOK SINGH TUPER
Stamp Duty Amount(Rs.)	:	10 (Ten only)

28.02.2021

NOTARIAL NOTARIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं बलवन्त सिंह पुत्र श्री त्रिलोक सिंह उम्र लगभग निवासी ग्राम तुपेड़ पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम तुपेड़ का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

बलवन्त सिंह

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.[illegible]stamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY GOVT. OF

RTI

INDIA NON JUDICIAL

Government of Uttarakhand

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सत्यमेव जयते

Certificate No.	:	IN-UK79033144754190
Certificate Issued Date	:	20-Aug-2018 07:26 PM
Account Reference	:	NONACC (SV)/ uk1267604/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12676046094379280979OQ
Purchased by	:	MOHAN SINGH SO MADO SINGH KHULDOARI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	MOHAN SINGH SO MADO SINGH KHULDOARI
Second Party	:	NA
Stamp Duty Paid By	:	MOHAN SINGH SO MADO SINGH KHULDOARI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTARIAL

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं मोहन सिंह पुत्र श्री माधो सिंह उम्र लगभग निवासी ग्राम खुल्दोड़ी पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम खुल्दोड़ी का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

RTI

Statutory Alert:

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2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

Sworn and Signed Before me

NOTARY

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Government of Uttarakhand

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सत्यमेव जयते

e-Stamp
DEVENDER KANSERA
I.D.No. UK01267804
Stamp Vendor Bageshwar

Certificate No.	:	IN-UK79605536912199Q
Certificate Issued Date	:	20-Aug-2016 06:58 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094196717482 9Q
Purchased by	:	KHUSAL SINGH SO BALA SINGH KHULDOARI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	KHUSAL SINGH SO BALA SINGH KHULDOARI
Second Party	:	NA
Stamp Duty Paid By	:	KHUSAL SINGH SO BALA SINGH KHULDOARI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTARIAL

NOTARY ★ GOVT. OF U.K. (INDIA) ★
G. S. MAJILA
Distt-Bageshwar
Reg. No. 2(12)
2003

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं खुशाल सिंह ..... पुत्र बाला सिंह ..... उम्र ..... निवासी ग्राम खुलदौरी पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम खुलदौरी ..... का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

खुशाल सिंह

RTI

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5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY
G. S. MAJILA
Distt-Bageshwar
Reg. No. 2(12)
2003
GOVT. OF U.K. (INDIA)

Sworn and Signed
Before me
GANESH SINGH MAJILA
NOTARY
Distt - Bageshwar (U K)

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

e-Stamp
KEVADHAR KANSERI
I D No UK-126760
Stamp Vendor Bageshwar

सत्यमेव जयते

Certificate No.	:	IN-UK79802382147300Q
Certificate Issued Date	:	20-Aug-2018 06:56 PM
Account Reference	:	NONACC (SV)/ uk1267604/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094179180123 7Q
Purchased by	:	CHANCHAL SINGH SO BALA SINGH KHULDOARI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	CHANCHAL SINGH SO BALA SINGH KHULDOARI
Second Party	:	NA
Stamp Duty Paid By	:	CHANCHAL SINGH SO BALA SINGH KHULDOARI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

सूचना अधिकार अधिनियम 2005 के अन्तर्गत प्रदत्त प्रति सत्यापित

NOTARIAL NOTARIAL

NOTARY G. S. Ma... Distt. Bageshwar Reg. No. 2(12) 2003 GOVT. OF U.K. (INDIA)

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं चंचल सिंह पुत्र बाला सिंह उम्र [illegible] निवासी ग्राम खुलोरी पटवारी क्षेत्र– तुपेड़, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम खुलोरी का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

RTS

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

NOTARY ★ G. S. MAJILA Distt. Bageshwar Reg. No. 2121 2003 ★ GOVT. OF U.K. (INDIA)

सूचना अधिकार अधिनियम 2005 के अन्तर्गत जारी की गई प्रतियां

23-02-2021

हस्ताक्षर शपथी

Sworn and signed Before me

GANESH SINGH MAJILA
NOTARY 23/02/21
Distt - Bageshwar (U.K.)

RTI

INDIA NON JUDICIAL

Government of Uttarakhand

e-Stamp

सत्यमेव जयते

Certificate No.	:	IN-UK79802316535379Q
Certificate Issued Date	:	20-Aug-2018 06:54 PM
Account Reference	:	NONACC (SV)/ uk1267804/ BAGESHWAR/ UK-BG
Unique Doc. Reference	:	SUBIN-UKUK12678046094171444447O
Purchased by	:	SURESH SINGH SO BALA SINGH KHULDOARI
Description of Document	:	Article 4 Affidavit
Property Description	:	NA
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	SURESH SINGH SO BALA SINGH KHULDOARI
Second Party	:	NA
Stamp Duty Paid By	:	SURESH SINGH SO BALA SINGH KHULDOARI
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARIAL NOTARIAL

NOTARY U.K. (INDIA)

Please write or type below this line

अनापत्ति प्रमाण–पत्र

मैं सुरेश सिंह पुत्र बाला सिंह उम्र [illegible] निवासी ग्राम [illegible] पटवारी क्षेत्र– तुपेड, तहसील एवं जनपद बागेश्वर शपथपूर्वक निम्न कथन करता हूँ कि,

1. मैं जनपद बागेश्वर के ग्राम खुलदोड़ी का स्थायी निवासी हूँ ।
2. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ ।
3. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि में आप श्रीमती जानकी राठौर पत्नी श्री एम0एस0राठौर म0न0 346/3, कलावती कलोनी, नवाबी रोड, हल्द्वानी एवं अन्य साझेदार मै0 स्टार माईन एण्ड मिनरल्स, म0स0 1516, सावित्री कलोनी हल्द्वानी के पक्ष में खडिया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ ।

RTI

सुरेश सिंह

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at 'www.shcilestamp.com'. Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सममतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त, उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY OF U.K. (INDIA)

RTI

25-02-2021

NOTARY
BAGESHWAR (U.K.) INDIA

उत्तराखण्ड UTTARAKHAND

29AA 682332

23.02.2021

शपथ–पत्र

मैं जानकी राठौर पत्नी श्री– एम0 एस0 राठौर, उम्र– वयस्क, निवासी– मकान सं0 346/3, कलावती कॉलोनी, नवाबी रोड एवं अन्य साझेदार मै0 स्टार माईन एवं मौजूदा मकान सं0 1516, सावित्री कॉलोनी हल्द्वानी शपथ पूर्वक निम्न बयान करते हैं–

1. कि शपथ कर्ता द्वारा खड़िया खनन पट्टे के जिस आवेदित क्षेत्र में जितने भी भूमिधरों द्वारा मुझे अनापत्ति दी है, उनके द्वारा किसी अन्य पक्ष में अनापत्ति नहीं दी गयी है।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 के सभी तथ्यों को अपने ज्ञान एवं विश्वास के साथ आज दि0 17.03.2016 को स्थान कचहरी, बागेश्वर में सत्य होना घोषित करता हूँ।

Sworn and Signed
Before me

SHIV SINGH TANGNIYA
NOTARY
BAGESHWAR (U.K.) INDIA

हस्ताक्षर शपथी

NOTARY
S.S. TANGNIYA
Distt.-Bageshwar
Reg. No. 8(12)
2003
GOVT. OF U.K. (INDIA)

उत्तराखण्ड UTTARAKHAND

29AA 682333

शपथ–पत्र

मैं जानकी राठौर पत्नी श्री– एम0 एस0 राठौर, उम्र– वयस्क, निवासी– मकान सं0 346/3, फलायती कॉलोनी, नयाबी रोड एवं अन्य साझेदार मै0 स्टार माईन एवं मिनिरल्स मकान सं0 1516, सावित्री कॉलोनी हल्द्वानी शपथ पूर्वक निम्न बयान करते है–

1. कि शपथ कर्ता द्वारा खड़िया खनन पट्टे के लिए आवेदित क्षेत्र में जिन भूमि धरों के मौके पर न होने के कारण अनापत्ति नहीं लिया गया है, उनके भूखण्ड को यद्यपि मेरे द्वारा वृहद् खण्ड के रूप में मानचित्र में दिखाया गया है तथापि मैं उस भूखण्ड मे तब तक खनन कार्य नहीं करूंगा जब तक कि वास्तविक काश्तकार द्वारा मेरे पक्ष में अपना अनापत्ति प्रमाण–पत्र निर्गत न कर दिया जाय।
2. यह कि शपथ कर्ता अन्यथा की दशा मे किसी भी विधि विरूद्ध कार्य के लिए स्वयं उत्तरदायी रहेगा।

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 2 के सभी तथ्यों को अपने ज्ञान एवं विश्वास के साथ आज दि0 17.03.2016 को स्थान कचहरी, बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

SHIV SINGH TANGNIYA
NOTARY
BAGESHWAR (U.K.) INDIA

भारतीय गैर न्यायिक

भारत

दस रुपये

TEN RUPEES

02 SEP 2015

रु 10

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

के अन्तर्गत जन्म और मृत्यु [illegible] 2005

722374

अनापत्ति प्रमाण पत्र

मैं लाल सिंह खेतवाल पुत्र श्री प्रेम सिंह उम्र 55 निवासी ग्राम कसली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कसली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

लाल सिंह

कि मैं रायथी ज्ञान व विश्वास से आज दिनांक

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को ज्ञान बागेश्वर में सत्य होना पोषित करता हूँ।

हस्ताक्षर शपथी

लाल सिंह

NOTARY

RS

18-9-15

उत्तराखण्ड UTTARAKHAND

29AA 722373

अनापत्ति प्रमाण पत्र

मैं उमेश खेतवाल पुत्र श्री महेन्द्र सिंह खेतवाल उम्र 40 निवासी ग्राम पटवारी क्षेत्र लुपेड़, तहसील एवं जनपद बागेश्वर, शपथ पूर्वक निम्न कथन करता हूँ कि:- कस्ली का स्थाई निवासी हूँ।

१. मैं जनपद बागेश्वर के ग्राम कस्ली

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कालावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत जाँच हेतु सत्यापित
जिला पंचायत अधिकारी
बागेश्वर

हस्ताक्षर शपथी
उमा देवी

कि मैं शपथी विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
गंगा देवी

17-9-15

भारतीय गैर न्यायिक

दस रुपये

रु. 10

TEN RUPEES

Rs.10

INDIA NON JUDICIAL

NOTARIAL

NOTARIAL

उत्तराखण्ड UTTARAKHAND

29AA 722372

अनापत्ति प्रमाण पत्र

मैं श्री राजेन्द्र खेतवाल पुत्र स्व॰ पान सिंह खेतवाल उम्र 27 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:- कस्ली का स्थाई निवासी हूँ।

१. मैं जनपद बागेश्वर के ग्राम कस्ली

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कत्यूरी कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों मे खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर भौतिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत प्रदत्त की गयी सूचनाओं

हस्ताक्षर शपथी

राजेन्द्र खेतवाल

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक को तहसील परिसर में प्रस्तुत प्रार्थना पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने हो/स्थान बागेश्वर में सत्य होना पोषित करता हूँ।

RTI

12-9-15

हस्ताक्षर शपथी

राजेन्द्र खेतवाल

भारतीय गैर न्यायिक

दस रुपये

रु 10

भारत

TEN RUPEES

02 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722371

अनापत्ति प्रमाण पत्र

मैं लक्ष्मी देवी पुत्र / पुत्री पुष्कर सिंह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर, शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

लक्ष्मी देवी

कि मैं शपथी ज्ञात व विश्वास से आज दिनांक

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

लक्ष्मी देवी

RTI

18.9.15

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

भारत

INDIA

Rs.10

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722370

अनापत्ति प्रमाण पत्र

मैं दर्शन सिंह पुत्र मोहन सिंह उम्र 43 निवासी ग्राम करली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नथावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
दर्शन सिंह

कि मैं शपथी ज्ञात व विश्वास से आज दिनांक 12-9-15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
दर्शन सिंह

S. B. PATHAK NOTARY GOVT. OF U.K. (INDIA)

S. B. PATHAK NOTARY ADVOCATE 12-9-15

भारतीय गैर न्यायिक

दस रुपये

रु 10

TEN RUPEES

12 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722369

अनापत्ति प्रमाण पत्र

मैं नरेश सिंह पुत्र भोपाल सिंह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर, शपथ पूर्वक निम्न कथन करता हूँ कि:- 45 — कस्ली

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1616 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

नरेश सिंह

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

नरेश सिंह

NOTARIAL

RTS 13

12-9-15

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

रु 10

02 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722368

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] उम्र 32 निवासी ग्राम [illegible] पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूं कि:-

१. मैं जनपद बागेश्वर के ग्राम - कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतो मे खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी जाने व विश्वास से आज दिनांक [illegible] को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

RTI

18-9-15

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

₹ 10

SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722367

अनापत्ति प्रमाण पत्र

मैं गोविन्द सिंह पुत्र विशन सिंह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नथाथी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

गोविन्द सिंह

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 18.9.15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी

गोविन्द सिंह

उत्तराखण्ड UTTARAKHAND

29AA 722366

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

1. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।
2. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।
3. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 करावती कॉलोनी नथाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु पूर्ण सहमति प्रदान करता/करती हूँ।
4. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।
5. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
6. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
22-02-2024
प्रवीण सिंह

कि मैं शपथी ज्ञान एवं विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
प्रवीण सिंह

RTS
12

19.9.15

उत्तराखण्ड UTTARAKHAND

29AA 722365

अनापत्ति प्रमाण पत्र

मैं श्री शंकर लाल शाह पुत्र स्व० श्री गोपाल सिंह निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूं कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ। 28 कस्ली

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एस०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 19-09-2015 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

B. S. PATHAK
ONE Jageshwar
U.K. 111260

DEVENDRA S. PATHAK
NOTARY ADVOCATE
Distt. Bageshwar (U.K.)
19-9-15

हस्ताक्षर शपथी

उत्तराखण्ड UTTARAKHAND

29AA 722364

अनापत्ति प्रमाण पत्र

मैं श्री मती पुष्पा देवी प/o पुत्र स्वर्गं० श्री [illegible] उम्र निवासी ग्राम पत्रवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम - करली का स्थाई निवासी हूँ। प/o क० ली०

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत छाया प्रति सत्यापित
[illegible] 22.07.2022
पंचायत [illegible] बागेश्वर

हस्ताक्षर शपथी
प्र० भ० पुष्पा देवी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 13.9.15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी

प्र० भ० पुष्पा देवी

NOTARY
S. G. PATHAK
Govt. Approved
Regd. No. 11/2010
RTI
13-9-15

उत्तराखण्ड UTTARAKHAND

29AA 722363

अनापत्ति प्रमाण पत्र

मैं श्री ईश्वरलाल साह पुत्र श्री रामलाल साह उम्र 52 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम का स्थाई निवासी हूँ।

२. कि मैं ग्राम फरूली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम फरूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को सम्भाल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

B. D. PATHAK Distt. Magistrate Regn. No. A-113/2005 GOVT. OF U.K. (India)

सूचना अधिकार अधिनियम 2005 के अन्तर्गत जारी कॉपी का प्रमाणित

हस्ताक्षर शपथी ईश्वरलाल

कि मैं उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

BARANI B. PATHAK CHIEF MAGISTRATE 18-9-15

RTI 12

हस्ताक्षर शपथी ईश्वरलाल

भारतीय गैर न्यायिक

दस रुपये

भारत

TEN RUPEES

12 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722362

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र श्री [illegible] उम्र निवासी ग्राम रत्यारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ। 55 करली

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत सत्य प्रति

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक [illegible] उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

B. B. PATHAK
DIST. BAGESHWAR
Reg. No. T/1218/U.K. (INDIA)

SUSHANT B. PATHAK
NOTARY ADVOCATE
18-9-15

1436

29AA 722351

अनापत्ति प्रमाण पत्र

मैं श्री पूरन लाल पुत्र श्री दौलत लाल उम्र 42 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
पूरन लाल

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
पूरन लाल

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722352

अनापत्ति प्रमाण पत्र

मैं गणेश लाल पुत्र गोविन्द लाल उम्र नियासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 3316 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
गणेश लाल

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
गणेश लाल

10-9-15

20 ✓

(53)

भारतीय गैर न्यायिक

दस रुपये

भारत

TEN RUPEES

.10

SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722353

अनापत्ति प्रमाण पत्र

मैं श्री नन्दन राम पुत्र गोविन्द राम उम्र 50 वर्ष निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

नन्दन राम

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 18-9-15 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

नन्दन राम

B. B. PATHAK

उत्तराखण्ड UTTARAKHAND

29AA 722350

अनापत्ति प्रमाण पत्र

मैं भरत लाल पुत्र हीरा लाल उम्र 38 निवासी ग्राम करुली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करुली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करुली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करुली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं०346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी ओर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर अपथी
भरत लाल

कि मैं अपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर-शपथी
भरत लाल

NOTARY
S.D. PATHAK
GOVT. OF INDIA

18.9.15

भारतीय गैर न्यायिक

दस रुपये 10 TEN RUPEES Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722354

अनापत्ति प्रमाण पत्र

मैं श्री [illegible] पुत्र [illegible] उम्र 65 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

20.01.2021

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTI

12-9-15

हस्ताक्षर शपथी

(431) 56

भारतीय गैर न्यायिक

दस रुपये रु 10

TEN RUPEES

02 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

IDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND 29AA 722355

अनापत्ति प्रमाण पत्र

मैं श्री दामोदर राम पुत्र श्री [illegible] उम्र 39 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करूली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कलाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति वा संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

22.02.2021

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

18.9.15

उत्तराखण्ड UTTARAKHAND 29AA 722356

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] उम्र 42 निवासी ग्राम क [illegible] पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलायती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक [illegible] उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

12.9.15

अनापत्ति प्रमाण पत्र

मैं श्री जीवन लाल साह पुत्र स्व० नन्द लाल साह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1576 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत अन्य सूचनाएँ

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

भारतीय गैर न्यायिक

दस रुपये

भारत

TEN RUPEES

12 SEP 2015

10 Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722358

अनापत्ति प्रमाण पत्र

मैं श्री गोविन्द सिंह पुत्र स्व० श्री नर सिंह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कलाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत छायाप्रति मान्य है

हस्ताक्षर शपथी

गो० सिंह

दि: 29.07.2015

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

गो० सिंह

उत्तराखण्ड UTTARAKHAND 29AA 722359

अनापत्ति प्रमाण पत्र

मैं श्री प्रभातीलाल साह पुत्र स्व० श्री धनीलाल उम्र - 60 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम - कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत छाया प्रति मान्य है

हस्ताक्षर-शपथी
प्रभातीलाल साह

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTS

हस्ताक्षर शपथी
प्रभातीलाल साह

18-9-15

अनापत्ति प्रमाण पत्र

मैं श्रीमती सत्ती चामी देवी पुत्र स्व० श्री मोहन सिंह उम्र 48 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर, शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1616 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

18-9-15

भारतीय गैर न्यायिक

दस रुपये ₹ 10

भारत

TEN RUPEES

कोषागार बागेश्वर Rs 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722326

अनापत्ति प्रमाण पत्र

मैं गोपाल सिंह पुत्र [illegible] उम्र 57 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी इच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

B. B. PATHAK Distt. Rajasthan Regd. No. [illegible] DIST. CAUR (INDIA)

12-9-2015

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्वीकार बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

18-9-15

उत्तराखण्ड UTTARAKHAND

29AA 722325

अनापत्ति प्रमाण पत्र

मैं रमेश चन्द्र सिंह पुत्र श्री भैरव सिंह उम्र 48 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

B. B. PATHAK
Dist. Bageshwar
Reg. No. 7/12-03
NOTARY
OF U.K. INDIA

20-9-2015

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

BASANT B PATHAK
NOTARY ADVOCATE
18-9-15

RTI

12 ✓

उत्तराखण्ड UTTARAKHAND

29AA 722324

अनापत्ति प्रमाण पत्र

मैं Chandan Singh पुत्र Pandan Singh उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूं कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नथावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

NOTARY B. B. PATHAK Distt. Judge (Retd.) Regd. No. 7131/05 GT. OF U.K. (INDIA)

23.09.2015

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

B. B. PATHAK NOTARY ADVOCATE Regd. No. 7131/05

18.9.15

RTI

हस्ताक्षर शपथी

13 ✓

29

भारतीय गैर न्यायिक

दस रुपये ₹ 10

भारत

TEN RUPEES

Rs. 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND 29AA 722323

अनापत्ति प्रमाण पत्र

मैं जगत सिंह पुत्र रतन सिंह उम्र 65 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ-पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

B. B. PATHAK Dist. Nainital Reg. No. 7197/05 GOVT. OF UK.

23-07-2015

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 17.9.2015 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTS 13

हस्ताक्षर शपथी

B. B. PATHAK NOTARY/ADVOCATE GOVT. OF U.K. 17-9-15

14

(30)

भारतीय गैर न्यायिक

भारत

दस रुपये

TEN RUPEES

10

SEP 2015

Rs. 10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722322

अनापत्ति प्रमाण पत्र

मैं ज्ञानसिंह पुत्र भीमसिंह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

70 ग्राम करूली

१. मैं जनपद बागेश्वर के ग्राम करूली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर भौतिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 29-8-2015

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

17.9.15

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs 10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722321

अनापत्ति प्रमाण पत्र

मैं मोहनसिंह पुत्र मानसिंह उम्र 74 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कमली का स्थाई निवासी हूँ। कमली

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कतावती कॉलोनी नबावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

23.02.2021

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक 18.9.2015 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

18.9.15

RTI

हस्ताक्षर शपथी

16

(23)

भारतीय गैर न्यायिक

भारत

दस रुपये

TEN RUPEES

रु 10

12 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722379

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर, शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 फलायती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत [illegible]

[illegible]
जिला मजिस्ट्रेट बागेश्वर

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTS

हस्ताक्षर शपथी

12.9.15

उत्तराखण्ड UTTARAKHAND

29AA 722378

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र श्री [illegible] उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करुली का स्थाई निवासी हूँ।
२. कि मैं ग्राम करुली का काश्तकार हूँ व भूमिधर हूँ।
३. कि मैं ग्राम करुली की अपने हक व कब्जे की भूमि आप श्रीमती ज्ञानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।
४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 23.02.2021 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

RTI

भारतीय गैर न्यायिक

भारत

दस रुपये

TEN RUPEES

10

02 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722377

अनापत्ति प्रमाण पत्र

मैं तुलसी देवी पुत्र स्व.श्री उमेश सिंह उम्र 35 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:- करूली

१. मैं जनपद बागेश्वर के ग्राम करूली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नचनी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
तुलसी देवी

कि मैं शपथी 13.02.201 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTI

18.9.15

हस्ताक्षर शपथी
तुलसी देवी

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] उम्र [illegible] निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।
२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।
३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 456/3 कलावती कॉलोनी नथावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।
४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।
५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

[illegible] 2024

हस्ताक्षर शपथी

शपथी

कि मैं [illegible] उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

18-9-15

RTI

हस्ताक्षर शपथी

भारतीय गैर न्यायिक

दस रुपये

₹ 10

भारत

TEN RUPEES

02 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722375

अनापत्ति प्रमाण पत्र

मैं केवल सिंह पुत्र मोहन उम्र 71 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करूली का स्थाई निवासी हूँ।
२. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ।
३. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु पूर्ण सहमति प्रदान करता/करती हूँ।
४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।
५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।
६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत छाया प्रति सत्यापित

हस्ताक्षर शपथी
केवल सिंह

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 09.09.2015 को यह अनापत्ति प्रमाण पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

19.9.15

हस्ताक्षर शपथी
केवल सिंह

भारतीय गैर न्यायिक

दस रुपये ₹ 10

भारत

TEN RUPEES

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722319

अनापत्ति प्रमाण पत्र

मैं केदार सिंह पुत्र भानु सिंह उम्र 5/11/52 वर्ष निवासी ग्राम कफली

पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कफली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कफली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कफली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं रूप सिंह उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

B. PATHAK NOTARY GOVT. OF U.K. (INDIA)

18-9-15

(23)

(264)

भारतीय गैर न्यायिक

दस रुपये

भारत

TEN RUPEES

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722315

अनापत्ति प्रमाण पत्र

मैं Ganga Khetwal. पुत्र S. Nain Singh उम्र 26 years निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कमली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०बी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

B. B. PATHAK Dist. Bageshwar Regd. No. 7/12/33 GOVT. OF U.K.

सूचना अधिकार अधिनियम 2005 के अन्तर्गत स्वप्रमाणित

हस्ताक्षर शपथी

कि मैं उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

BASANT B. PATHAK NOTARY ADVOCATE Regd. No. 7/12/33 Dist. BAGESHWAR (U.K.) 18-9-15

RTI 12

हस्ताक्षर शपथी

उत्तराखण्ड UTTARAKHAND 29AA 722314

अनापत्ति प्रमाण पत्र

मैं रोशन सिंह पुत्र महेन्द्र सिंह उम्र 74 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने इक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं रोशन सिंह ज्ञान व विश्वास से आज दिनांक 18-9-15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ। उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी

NOTARY E. B. PATHAK GOVT. OF U.K.

E. B. PATHAK NOTARY ADVOCATE 18-9-15

उत्तराखण्ड UTTARAKHAND

29AA 722327

अनापत्ति प्रमाण पत्र

मैं भावत पुत्र देव सिंह उम्र 48 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

B. B. PATHAK Distt. Bageshwar Reg. No. 7(1.09) NOTARY GOVT. OF U.K. (INDIA)

सूचना का अधिकार अधिनियम 2005 के अन्तर्गत प्रमाणित प्रति

23.02.2021

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 18-9-15 को शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

BASANT B. PATHAK NOTARY ADVOCATE Distt. Bageshwar (U.K.) 18-9-15

RTS

हस्ताक्षर शपथी

(16)

उत्तराखण्ड UTTARAKHAND 29AA 722318

अनापत्ति प्रमाण पत्र

मैं रामशिंदे खेतवाल पुत्र श्री भगशिंदे उम्र 69 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

NOTARY
S. S. PATHAK
Dist. Judge's Nagar
Reg. No. 7(1)/99
GOVT. OF U.K. (INDIA)

ANANT S. PATHAK
SENIOR ADVOCATE
DIST. BAGESHWAR
12-9-15

(17)

भारतीय गैर न्यायिक

दस रुपये ₹ 10

TEN RUPEES

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722313

अनापत्ति प्रमाण पत्र

मैं Chanchal Singh पुत्र Lt Vijay Singh उम्र 55 निवासी ग्राम Kaulali पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कमली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कलाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं की है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं Chanchal Singh ज्ञान व विश्वास से आज दिनांक 12.9.2015 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना पोषित करता हूँ।

हस्ताक्षर शपथी

B. B. PATHAK Dist. Bageshwar Reg. No. 11(2)

BASANT B. PATHAK NOTARY ADVOCATE CHIEF JUDICIAL MAGISTRATE Dist. BAGESHWAR (U'KHAND) 12-9-15

RTI

उत्तराखण्ड UTTARAKHAND

29AA 722312

अनापत्ति प्रमाण पत्र

मैं दीपक सिंह पुत्र [illegible] उम्र 23 निवासी ग्राम क.ख.ली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कखली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कखली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कखली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
दीपक सिंह

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 18.02.2015 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
दीपक सिंह

NOTARY
S. U. PATHAK
Distt. Bageshwar
Regd. No. 71/14
Govt. of U.K.

SHASHI U. PATHAK
NOTARY ADVOCATE
GOVT. OF U.K. (INDIA)
18-9-15

RTS
18

(19)

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722320

अनापत्ति प्रमाण पत्र

मैं कु० [illegible] पुत्र श्री [illegible] उम्र [illegible] निवासी ग्राम [illegible]
पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:- 35 वर्ष

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 फलावती कॉलोनी नथावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

23-02-2015

७ कि मैं [illegible] ज्ञान व विश्वास से आज दिनांक [illegible] उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

B. B. PATHAK Distt. Nainital Regd. No. 19/2008 GOVT. OF UK. (INDIA)

BASANT B. PATHAK NOTARY ADVOCATE Distt. Nainital (UTK.) 18/9/15

RTS

उत्तराखण्ड UTTARAKHAND 29AA 722317

अनापत्ति प्रमाण पत्र

मैं दीनेश सिंह पुत्र श्री मंगल सिंह उम्र 40 निवासी ग्राम कस्ली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

दिनांक 08.02.2021 हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722316

अनापत्ति प्रमाण पत्र

मैं श्री-गोपालसिंह पुत्र स्व०दीपसिंह उम्र 55 निवासी ग्राम करली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नचबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं गोपाली उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक 17/9/15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

B. B PATHAK
Distt. Bageshwar
Regd. No. 7(12)03
GOVT. OF U.K.

B. B. PATHAK
NOTARY ADVOCATE
Distt.- Bageshwar (U.K.)
Date 18-9-15

भारतीय गैर न्यायिक

दस रुपये ₹ 10

TEN RUPEES Rs. 10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND 29AA 722346

अनापत्ति प्रमाण पत्र

मैं कुन्दन सिंह पुत्र चन्द्र सिंह उम्र 33 निवासी ग्राम कार्ब,

पट्टवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम CHOGI का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकर हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

BASANT & PATHAK NOTARY/ADVOCATE Distt. Bageshwar (U.K.) Date 11-1-16

25.02.2016

हस्ताक्षर शपथी

कुन्दन सिंह

कि मैं जाना व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

कुन्दन सिंह

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs.10

INDIA

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722347

NOTARIAL NOTARIAL

B. B. PATHAK Distt. Bageshwar Reg. No. 7(1-2)09 GOVT. OF U.K. (INDIA)

अनापत्ति प्रमाण पत्र

मैं ओम दत्त पुत्र श्री पदम दत्त उम्र निवासी ग्राम पस्वारी क्षेत्र सुपेह, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत जारी की सत्यापित

हस्ताक्षर शपथी

BASANTI B. PATHAK NOTARY PUBLIC BAGESHWAR

11-1-16

कि मैं शपथी उक्त कथन व विश्वास से आज दिनांक 10-1-16 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTI

हस्ताक्षर शपथी

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs. 10

INDIA

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722348

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम [illegible] का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत सत्य प्रति प्रमाणित

हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

B. B. PATHAK Regd. No. 11/2013 NOTARY GOVT. OF UK (INDIA)

RTS 18

B. B. PATHAK NOTARY ADVOCATE Bageshwar (U.K.)

11-1-18

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs. 10

INDIA

INDIA NON JUDICIAL

NOTARIAL NOTARIAL

उत्तराखण्ड UTTARAKHAND

29AA 722340

NOTARY B. B. PATHAK Civil, Bageshwar Regd. No. 11/2016 GOVT. OF U.K. INDIA

अनापत्ति प्रमाण पत्र

मैं पान सिंह पुत्र चन्द्र सिंह उम्र 70 निवासी ग्राम कस्ली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं ज्ञान व विश्वास से आज दिनांक

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

B. B. PATHAK NOTARY CERTIFICATE 9.6.16

भारतीय गैर न्यायिक

दस रुपये रु 10

भारत

TEN RUPEES

Rs.10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722311

अनापत्ति प्रमाण पत्र

मैं रेमती देवी पुत्र कुशल सिंह उम्र 70 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कसली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कसली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कसली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं श्याम्बी ज्ञान व विश्वास से आज दिनांक 13-9-15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

उत्तराखण्ड UTTARAKHAND 29AA 722310

अनापत्ति प्रमाण पत्र

मैं श्री प्रवीन सिंह पुत्र श्री दौलत सिंह उम्र 48 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कमली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
प्रवीन सिंह

कि मैं प्रवीन सिंह ज्ञात व विश्वास से आज दिनांक 13-09-2021 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी
प्रवीन सिंह

13-9-21

उत्तराखण्ड UTTARAKHAND

29AA 722309

अनापत्ति प्रमाण पत्र

मैं Kavinder Sing Khetwal पुत्र Mohan Sing Khetwal उम्र 33 निवासी ग्राम Karauli पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करौली का स्थाई निवासी हूँ।

२. कि मै ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

25-02-2021

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 18-9-15

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को ज्ञान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

29

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs.10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722308

अनापत्ति प्रमाण पत्र

मैं केडली देवी पुत्र स्व० बद्रीदत्त सिंह उम्र 60 निवासी ग्राम कस्ली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबावी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

B. B. PATHAK NOTARY GOVT. OF U.K. (INDIA)

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक

18-9-15

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTS 13

हस्ताक्षर शपथी

भारतीय गैर न्यायिक

दस रुपये 10

TEN RUPEES

Rs. 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722307

अनापत्ति प्रमाण पत्र

मैं अविनाश सिंह पुत्र श्री भान सिंह उम्र 30 निवासी ग्राम पटवारी क्षेत्र सुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कारली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०बी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मै आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं अविनाश सिंह ज्ञान व विश्वास से आज दिनांक 28.07.2021 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

18-9-15

हस्ताक्षर शपथी

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

₹ 10

Rs.10

12 SEP 2015

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722301

अनापत्ति प्रमाण पत्र

मैं ..... पुत्र ..... उम्र ..... वर्ष निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम ..... का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ती का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ती की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं ..... ज्ञान व विश्वास से आज दिनांक ..... उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना पाया जाता है।

BASANT S. PANDEY
NOTARY PUBLIC
Govt. Regd. No. 12.9.15

RTI

हस्ताक्षर शपथी

उत्तराखण्ड UTTARAKHAND 29AA 722303

अनापत्ति प्रमाण पत्र

मैं श्री गोविन्दलाल पुत्र हीरालाल उम्र 45 वर्ष निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कसावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

22.02.2021

हस्ताक्षर शपथी
गोविन्द राम

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 18-9-15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी
गोविन्द राम

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

Rs.10

02 SEP 2015

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722302

अनापत्ति प्रमाण पत्र

मैं श्री [illegible] पुत्र श्री [illegible] उम्र [illegible] निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कमोली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नथवी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतो मे खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत छाया प्रति सत्यापित
जिला पंचायत बागेश्वर

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

B. M. PATHAK
NOTARY
GOVT. OF U.K.

B. M. PATHAK
NOTARY ADVOCATE
18-9-15

(13)

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

02 SEP 2015

रु 10

Rs.10

भारत

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722304

अनापत्ति प्रमाण पत्र

मैं श्रीदेव राम पुत्र महिन्दर राम उम्र 65 निवासी ग्राम कस्ली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत प्रदत्त सेवा सम्बन्धित

हस्ताक्षर शपथी

B. B. PATHAK Regd. No. 7/17/02 NOTARY ST. OF UK. (INDIA)

कि मैं श्रीदेव राम ज्ञान व विश्वास से आज दिनांक 18-9-15 को उपरोक्त शपथ [illegible] 1 से 6 तक के सभी तथ्यों को अपने स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

B. B. PATHAK NOTARY PUBLIC 18-9-15

RTI

हस्ताक्षर शपथी

भारतीय गैर न्यायिक

दस रुपये

भारत

TEN RUPEES

Rs. 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722305

अनापत्ति प्रमाण पत्र

मैं हयातराम पुत्र सदीराम उम्र 72 निवासी ग्राम पो० कमस्यार

पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कमस्यार का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत सूचना उपलब्ध कराया गया
23.02.2017
जिला खनिज अधिकारी बागेश्वर

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 18-9-15 को उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTI

हस्ताक्षर शपथी

(15)

भारतीय गैर न्यायिक

दस रुपये ₹ 10

TEN RUPEES Rs. 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND 29AA 722306

अनापत्ति प्रमाण पत्र

मैं हीरा लाल पुत्र पदमी लाल उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कमली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नथाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

हीरा लाल

E. D. PATHAK NOTARY GOVT. OF U.K. (INDIA)

मैं शपथी ज्ञान व विश्वास से आज दिनांक 13-7-15 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी

हीरा लाल

HASANT U. PATHAK NOTARY ADVOCATE

RTS 13

उत्तराखण्ड UTTARAKHAND 29AA 722345

अनापत्ति प्रमाण पत्र

मैं देवी लाल पुत्र स्व० जय लाल उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कौलोली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

Date 23-02-2021

हस्ताक्षर शपथी

कि मैं ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थाने बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

(68)

भारतीय गैर न्यायिक

दस रुपये

भारत

TEN RUPEES

Rs.10

02 SEP 2015

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722338

अनापत्ति प्रमाण पत्र

मैं श्री पंचल सिंह पुत्र स्वर्गीय श्री वीरम सिंह उम्र 58 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करुली का स्थाई निवासी हूँ। करुली

२. कि मैं ग्राम करुली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करुली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत सत्यापित

पंचल सिंह
हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक को उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTI

पंचल सिंह
हस्ताक्षर शपथी

18.9.15

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

INDIA

Rs.10

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722339

अनापत्ति प्रमाण पत्र

मैं श्री दीक्षा सिंह पुत्र स्व॰श्री राम सिंह उम्र 49 निवासी ग्राम करुली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करुली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करुली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करुली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी गबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूंगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005 के अन्तर्गत छाया प्रति सत्यापित

श्री दीक्षा सिंह
हस्ताक्षर शपथी

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

19-9-15

श्री दीक्षा सिंह
हस्ताक्षर शपथी

(70)

भारतीय गैर न्यायिक

दस रुपये

₹ 10

भारत

TEN RUPEES

Rs. 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722349

अनापत्ति प्रमाण पत्र

मैं चन्दन सिंह पुत्र प्रेम सिंह उम्र 39 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हू कि:- बनलेख का स्थाई निवासी हूँ।

१. मैं जनपद बागेश्वर के ग्राम करली

२. कि मैं ग्राम करली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

सूचना अधिकार अधिनियम 2005
के अन्तर्गत जनसूचना अधिकारी

हस्ताक्षर शपथी
चन्दन सिंह

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTS

हस्ताक्षर शपथी
चन्दन सिंह

19.8.15

27

(71)

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

रु 10

Rs. 10

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722332

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] उम्र 65 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

सूचना अधिकार अधिनियम 2005
के अन्तर्गत [illegible] प्रति सत्यापित
[illegible]-02-2021

कि मैं शपथी उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTI

हस्ताक्षर शपथी

18-9-15

(72)

भारतीय गैर न्यायिक

दस रुपये

TEN RUPEES

INDIA

Rs 10

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722331

अनापत्ति प्रमाण पत्र

मैं सुरेन्द्र सिंह पुत्र Late श्री [illegible] उम्र 42 निवासी ग्राम कनौली

पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करुली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करुली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करुली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नथवी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास काठाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

B. B. PATHAK Distt. Bageshwar Reg. No. 7/1/2003 GOVT. OF U.K. (INDIA)

कि मैं सुरेन्द्र सिंह ज्ञान व विश्वास से आज दिनांक 18-9-15 को उपरोक्त शपथ पत्र के क्रम 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

BASANT B. PATHAK NOTARY ADVOCATE Distt. Bageshwar (U.K.) Date 18-9-15

(73)

उत्तराखण्ड UTTARAKHAND 29AA 722330

अनापत्ति प्रमाण पत्र

मैं लक्ष्मण सिंह पुत्र पदम सिंह उम्र 73 निवासी ग्राम कस्ली पटवारी क्षेत्र तुपेड, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष मे अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

B. B. PATHAK
Dist. Bageshwar
Reg. No. 7/12/05
NOTARY
GOVT. OF U.K. INDIA

23.02.2024 हस्ताक्षर शपथी
Laxman Singh

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को आपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

ADVOCATE
18-9-15

RTI

हस्ताक्षर शपथी
Laxman Singh

(A13) (5)

भारतीय गैर न्यायिक

दस रुपये

भारत

TEN RUPEES

कोषागार बागेश्वर

Rs. 10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722329

अनापत्ति प्रमाण पत्र

मैं सुनीता देवी w/o श्री किसन सिंह उम्र 30 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करती हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कल्यावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

E. B. PATHAK Distt. Superintendent Regd. No. 7/11 (Delhi) GOVT. OF U.K. INDIA

18.9.15

हस्ताक्षर शपथी सुनीता

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी सुनीता

(75)

भारतीय गैर न्यायिक

दस रुपये 10 TEN RUPEES

भारत

Rs. 10

10 SEP 2015

INDIA

NOTARIAL NOTARIAL

DIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND 29AA 722328

अनापत्ति प्रमाण पत्र

मैं रामसिंह पुत्र श्री गोपालसिंह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम करूली का स्थाई निवासी हूँ।

२. कि मैं ग्राम करूली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम करूली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूंगा/करूंगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मै बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

25.12.2021

हस्ताक्षर शपथी

रामसिंह

कि मैं रामसिंह शपथी ज्ञान व विश्वास से आज दिनांक 25/12/2021 को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी

रामसिंह

NOTARY S. B. PATHAK Distt. Bageshwar Regd. No. 7(12)97 ST. OF UK. (INDIA)

S. B. PATHAK NOTARY & ADVOCATE DISTT. BAGESHWAR (U.K.) 16-9-15

RTF 13

425

भारतीय गैर न्यायिक

दस रुपये रु 10

भारत

TEN RUPEES

12 SEP 2015

Rs.10

INDIA

NOTARIAL NOTARIAL

IDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND

29AA 722361

अनापत्ति प्रमाण पत्र

मैं श्री मंगल लाल साह पुत्र पदमी लाल साह उम्र निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:- S० कस्ली

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक को

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

हस्ताक्षर शपथी

12-9-15

उत्तराखण्ड UTTARAKHAND 29AA 722333

अनापत्ति प्रमाण पत्र

मैं नन्दी देवी पुत्र [illegible] उम्र 79. निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

नन्दी देवी

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक 22.09.2015 उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

नन्दी देवी

हस्ताक्षर शपथी

22.9.15

उत्तराखण्ड UTTARAKHAND 29AA 722334

अनापत्ति प्रमाण पत्र

मैं मोहन सिंह पुत्र किशन सिंह उम्र 38 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नही दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी
Mohan Singh

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

RTS 28

हस्ताक्षर शपथी

2-9-15

Mohan Singh

422 65

अनापत्ति प्रमाण पत्र

मैं श्री दिलानसिंह पुत्र स्व. गोपालसिंह उम्र 52 निवासी ग्राम कस्ली पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

हस्ताक्षर शपथी

23-02-204

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने

हस्ताक्षर शपथी

BASANT S. PATHAK
NOTARY ADVOCATE
Civil Judge (Jr. Div.)
Dist. Bageshwar (U.K.)

18.9.15

अनापत्ति प्रमाण पत्र

मैं [illegible] पुत्र [illegible] निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 कलावती कॉलोनी नबाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कलाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतों को समतल करके देंगे। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

[illegible]

[illegible] 29.09.2021

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से आज दिनांक [illegible] को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

[illegible]

हस्ताक्षर शपथी

18-9-15

भारतीय गैर न्यायिक

दस रुपये ₹ 10

भारत

TEN RUPEES Rs. 10

INDIA

NOTARIAL NOTARIAL

INDIA NON JUDICIAL

उत्तराखण्ड UTTARAKHAND 29AA 722337

अनापत्ति प्रमाण पत्र

मैं श्री मोतीराम-चन्द्रादेवी पुत्र स्व० श्री चेतराम सिंह उम्र 72 निवासी ग्राम पटवारी क्षेत्र तुपेड़, तहसील एवं जनपद बागेश्वर शपथ पूर्वक निम्न कथन करता हूँ कि:-

१. मैं जनपद बागेश्वर के ग्राम कस्ली का स्थाई निवासी हूँ।

२. कि मैं ग्राम कस्ली का काश्तकार हूँ व भूमिधर हूँ।

३. कि मैं ग्राम कस्ली की अपने हक व कब्जे की भूमि आप श्रीमती जानकी राठौर पत्नी श्री एम०एस० राठौर हाउस नं० 346/3 फलावती कॉलोनी नवाबी रोड़ हल्द्वानी एवं अन्य साझेदार मैसर्स स्टार माइन्स एण्ड मिनरल्स हाउस नंबर 1516 सावित्री कॉलोनी जी०जी०आई०सी० स्कूल के पास कालाढूँगी रोड़ हल्द्वानी के पक्ष में खड़िया खनन हेतु अपनी पूर्ण सहमति प्रदान करता/करती हूँ।

४. कि मैंने इससे पूर्व आपके अतिरिक्त अन्य किसी व्यक्ति या संस्था के पक्ष में अपनी सहमति खड़िया खनन हेतु नहीं दी है और न ही मैं आपके प्रार्थना पत्र के अन्तिम निस्तारण होने से पूर्व किसी अन्य को सहमति पत्र जारी करूँगा/करूँगी।

५. कि मेरे खेतों में खनन कार्य बन्द होने के बाद आप मेरे खेतो को समतल करके देंगें। खनन कार्य पूर्ण होने के बाद हमारा इन खेतों पर मौलिक अधिकार पूर्ववत बना रहेगा।

६. कि मैं बिना किसी जोर जबरदस्ती एवं दबाव के अपनी स्वेच्छा से यह अनापत्ति आपको दे रहा हूँ/रही हूँ।

23.02.2014

हस्ताक्षर शपथी

कि मैं शपथी ज्ञान व विश्वास से अन्त दिनांक उपरोक्त शपथ पत्र के पैरा 1 से 6 तक के सभी तथ्यों को अपने को स्थान बागेश्वर में सत्य होना घोषित करता हूँ।

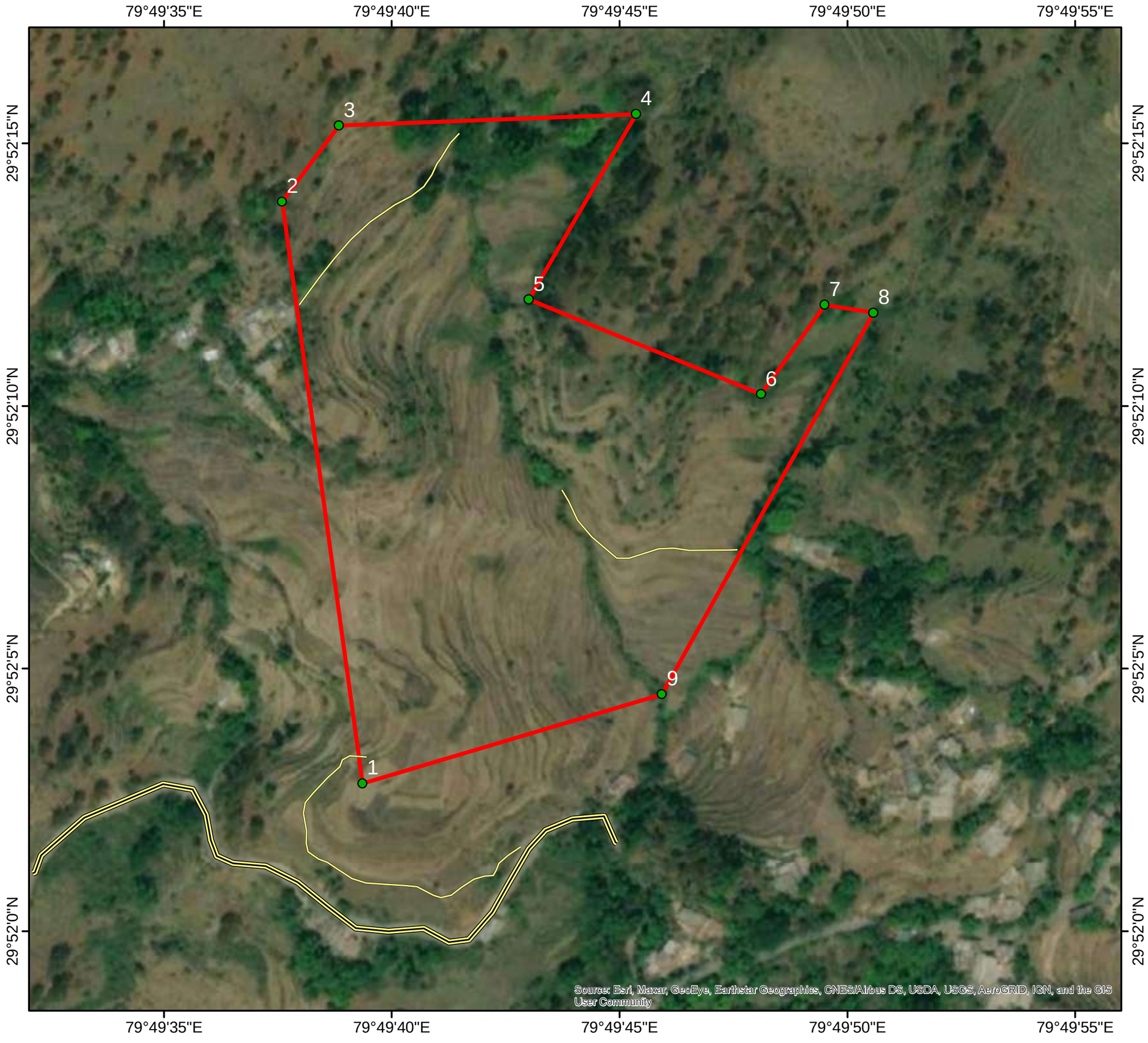
RTI

हस्ताक्षर शपथी

23-2-15

Photo of Trial Pit

Annexure- 7



N
W E
S

Legend

- Lease Boundary
- Track
- Metal Road

DGPS Coordinates

Pillar	Latitude	Longitude
1	29°52'02.81"N	79°49'39.36"E
2	29°52'13.89"N	79°49'37.59"E
3	29°52'15.34"N	79°49'38.84"E
4	29°52'15.56"N	79°49'45.36"E
5	29°52'12.03"N	79°49'43.01"E
6	29°52'10.22"N	79°49'48.11"E
7	29°52'11.93"N	79°49'49.51"E
8	29°52'11.78"N	79°49'50.57"E
9	29°52'04.51"N	79°49'45.93"E

Scale

0 0.025 0.05 0.1 0.15 0.2

Kilometers

Satellite Location Map of the Lease Area

SOAPSTONE MINE AT KARULI, BAGESHWAR
Uk (AREA:- 19.879ha. out of 28.264ha.
Demarcated- 7.841ha.)
SMT.JANKI RATHOR W/o SHRI
M. S. RATHOR HOUSE NO. 346/3
KALAWATI COLONY,
HALDWANI AND PARTNER
M/s STAR MINES AND MINERALS
House No. 1516, Savitri Colony,
Halwani, DIstt. Nainital,(Uk)
Prepared BY- HIMGEO Consultancy Services

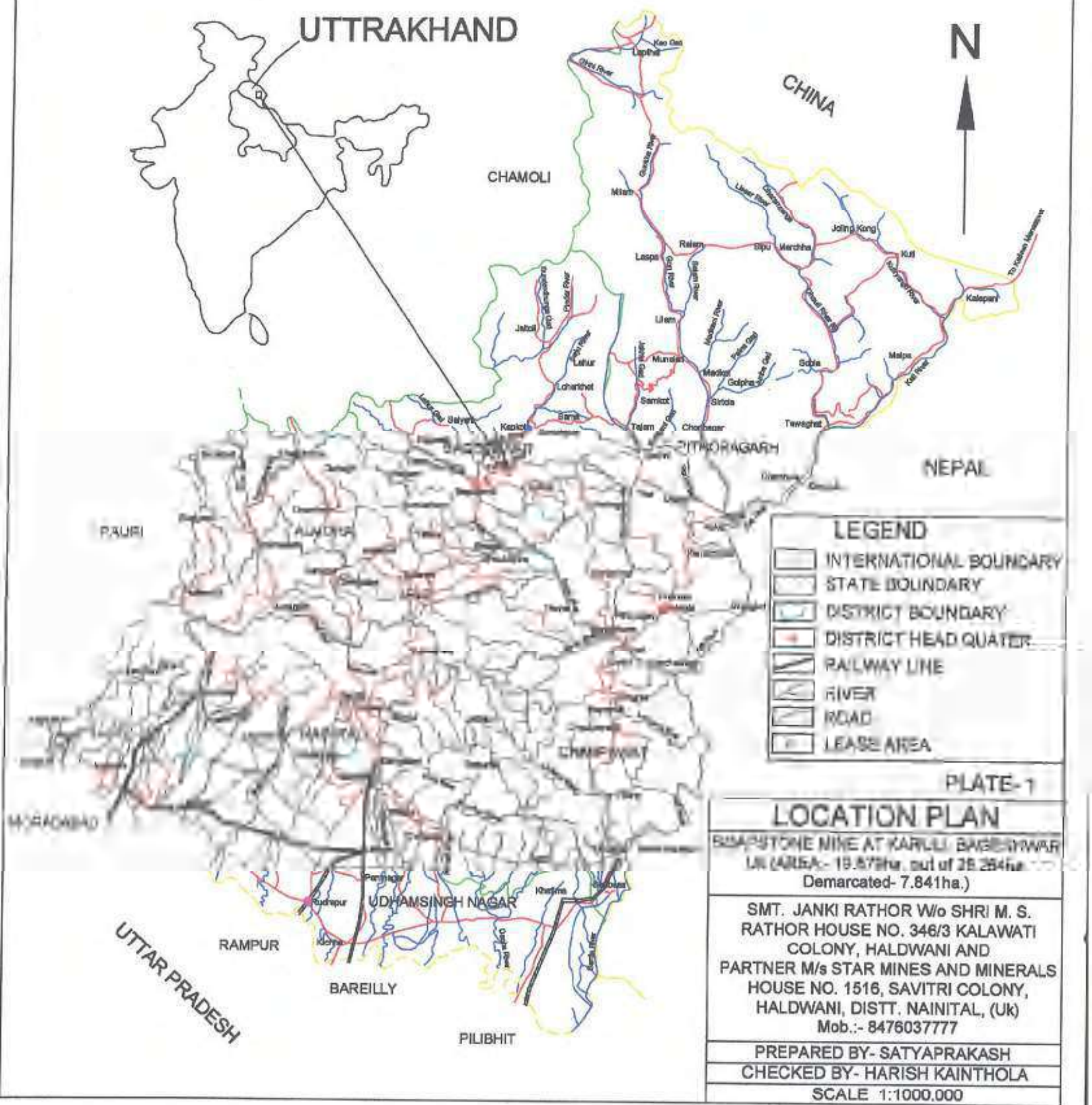


PLATE-1

LOCATION PLAN

QUARTZSTONE MINE AT KARULI BAGESHWAR
UK (AREA:- 19.673ha. out of 28.254ha.
Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND PARTNER M/s STAR MINES AND MINERALS HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk) Mob.:- 8476037777

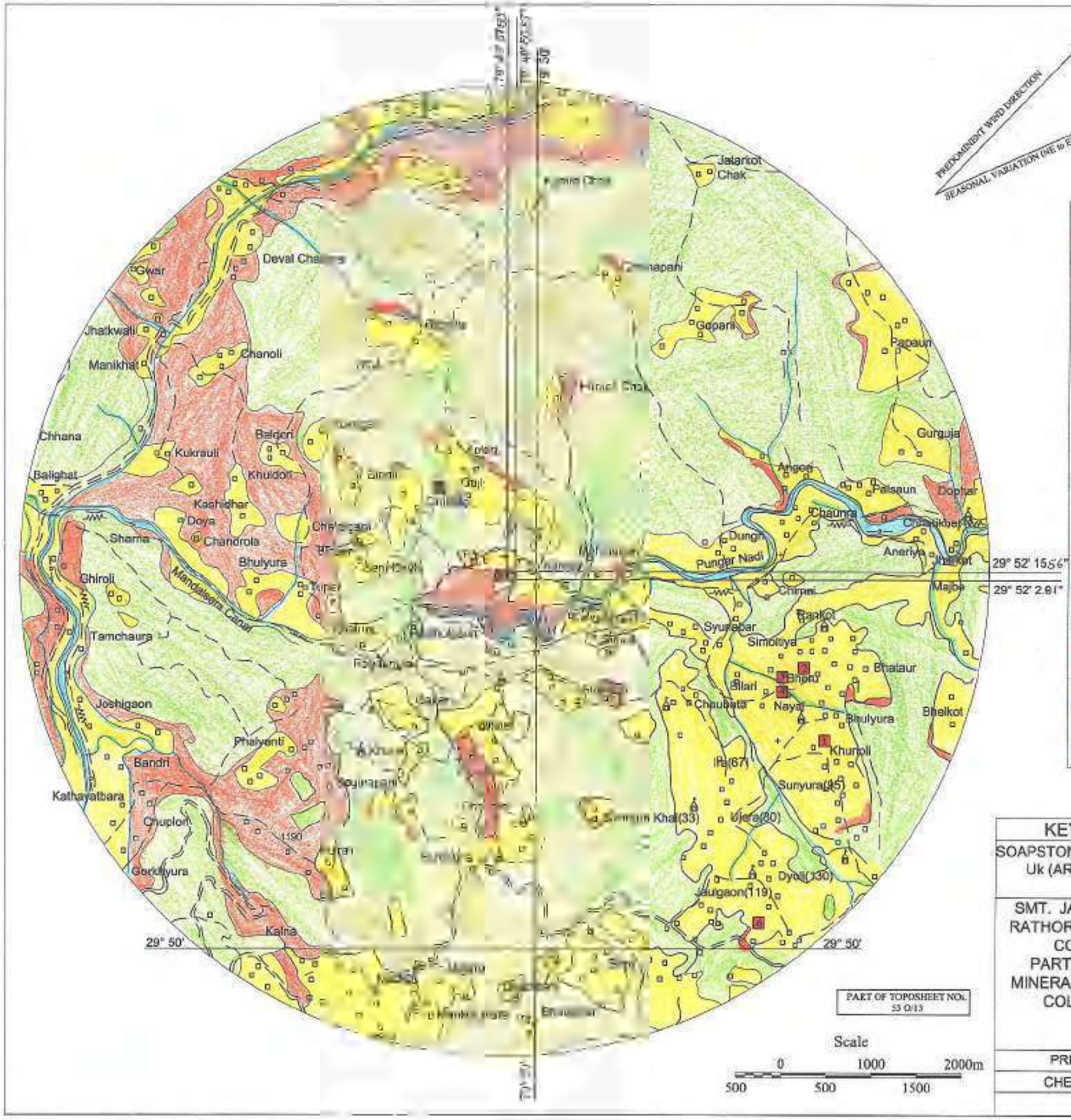
PREPARED BY- SATYAPRAKASH

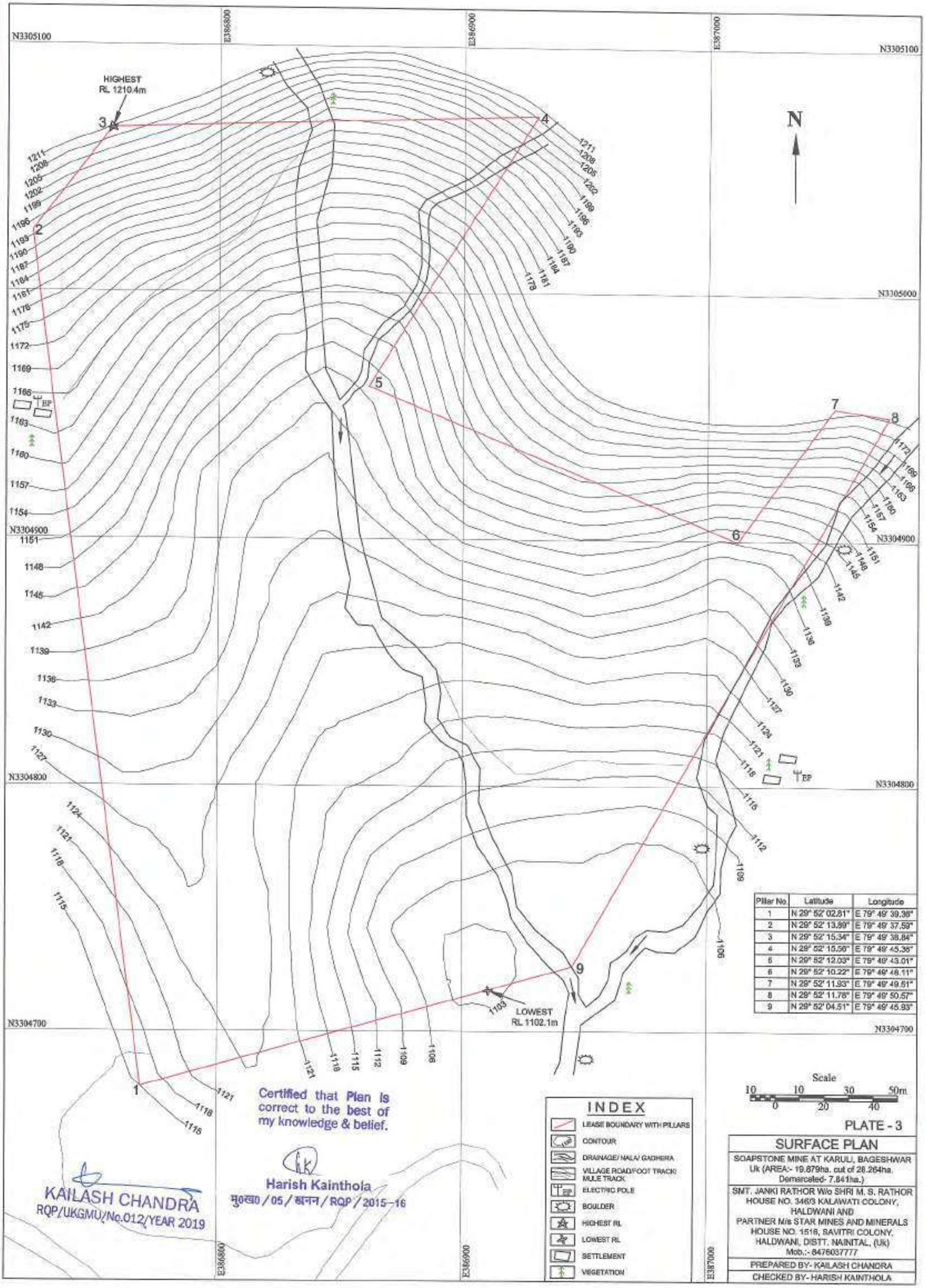
CHECKED BY- HARISH KAINTHOLA

SCALE 1:1000.000

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Harish Kainthola
मु0ख0 / 05 / खनन / RQP / 2015–16


N
PREDOMINENT WIND DIRECTION
SEASONAL VARIATION (NE to ENE)
MAGNETIC NORTH
INDEX
LEASE HOLD AREA
CONTOURS
DRAINAGE/ NALA
FOOT TRACK/MULE TRACK/PWD ROAD
VILLAGES WITH POPULATION
HEIGHTS
ELECTRIC LINE
TELEPHONE LINE
BUFFER ZONE
TI POINT
OTHER MINING LEASES
ML OF M/s PARWATI MINES
ML OF SHRI GURUDEEP SINGH
ML OF SHRI GOPAL RAM
ML OF SHRI GOPAL RAM
PL OF M/s CHIRANG MAGNESITE MINE
ML OF SHRI RAMESH CHAND PANDEY
ML OF M/s BALRAJ ASSOCIATES
LAND USE
CULTIVATION
BARREN LAND
RESERVE FOREST
Certified that Plan is correct to the best of my knowledge & belief.
Harish Kainthola
मुखख0 / 05 / खनन / RQP / 2015-
KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019
PLATE - 2
KEY PLAN (BUFFER ZONE)
SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 28.264ha. Demarcated- 7.841ha.)
SMT. JANKI RATHOR W/o SHRI M. S. RATHOR HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND PARTNER M/s STAR MINES AND MINERALS HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777
PREPARED BY- SATYAPRAKASH
CHECKED BY- HARISH KAINTHOLA
SCALE 1:50,000
PART OF TOPOSHEET NOs. 53 O/13
Scale
0 1000 2000m
500 500 1500
29° 52' 15.56"
29° 52' 2.91"
29° 50'
Jakarkot
Chak
Gopani
Papaun
Gurguja
Angor
Palsaun
Dophar
Chaunra
Chaukhori
Aneriya
Jakarkot
Majbe
Dungri
Pungar Nadi
Chirani
Bankot
Syunarbar
Simoliya
Bhalaur
Bilari
Bhelkot
Chaubata
Naya
Bhulyura
Khuroli
Sunyura(95)
Vijera(80)
Dyol(130)
Jaulgaon(119)
Gwar
Deval Chaura
Jhatkwali
Manikhat
Chanoli
Chhana
Kukrauli
Balgori
Balighat
Khuldori
Kashighar
Doya
Chandrola
Sharma
Bhulyura
Chiroli
Mandalsera Canal
Tamchaura
Joshigaon
Phalyonti
Bandri
Kathayatbara
Chuplori
Gorkhyura
Kalna
1190


N3305100
E386800
E386900
E387000
N3305600
N3304900
N3304800
N3304700
HIGHEST
RL 1210.4m
LOWEST
RL 1102.1m
N
1
2
3
4
5
6
7
8
9
EP
Pillar No. | Latitude | Longitude
1 | N 29° 52' 02.81" | E 79° 49' 39.36"
2 | N 29° 52' 13.89" | E 79° 49' 37.59"
3 | N 29° 52' 15.34" | E 79° 49' 38.84"
4 | N 29° 52' 15.56" | E 79° 49' 45.36"
5 | N 29° 52' 12.03" | E 79° 49' 43.01"
6 | N 29° 52' 10.22" | E 79° 49' 48.11"
7 | N 29° 52' 11.93" | E 79° 49' 49.51"
8 | N 29° 52' 11.78" | E 79° 49' 50.57"
9 | N 29° 52' 04.51" | E 79° 49' 45.93"
Certified that Plan is correct to the best of my knowledge & belief.
KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019
Harish Kainthola
मुख्य / 05 / खनन / RQP / 2015-16
INDEX
LEASE BOUNDARY WITH PILLARS
CONTOUR
DRAINAGE/ NALA/ GADHERA
VILLAGE ROAD/FOOT TRACK/ MULE TRACK
ELECTRIC POLE
BOULDER
HIGHEST RL
LOWEST RL
SETTLEMENT
VEGETATION
Scale
10 0 10 20 30 40 50m
PLATE - 3
SURFACE PLAN
SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 28.264ha. Demarcated- 7.841ha.)
SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777
PREPARED BY- KAILASH CHANDRA
CHECKED BY- HARISH KAINTHOLA

N3305100 E386800 E386900 E387000 N3305100

HIGHEST RL 1210.4m

N3305000

N3304900

N3304800

N3304700

LOWEST RL 1102.1m

SPT-1 SPT-2 SPT-3 SPT-4 SPT-5

SDH-1 SDH-2 SDH-3 SDH-4 SDH-5

50° 35°

Certified that Plan is correct to the best of my knowledge & belief.

Harish Kainthola
मु0ख0/05/खनन/RQP/2015-16

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Scale
10 0 10 20 30 40 50m

PLATE - 4

INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- DIP AND STRIKE OF BEDDING
- DIP AND STRIKE OF JOINT
- GEOLOGICAL SECTION ARROW
- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- DRAINAGE/ NALA/ GADHERA
- VILLAGE ROAD/FOOT TRACK/MULE TRACK
- ELECTRIC POLE
- BOULDER
- PROPOSED TRIAL PITS UPTO V YEAR
- PROPOSED DRILL HOLE
- SETTLEMENT
- HIGHEST RL
- LOWEST RL
- VEGETATION

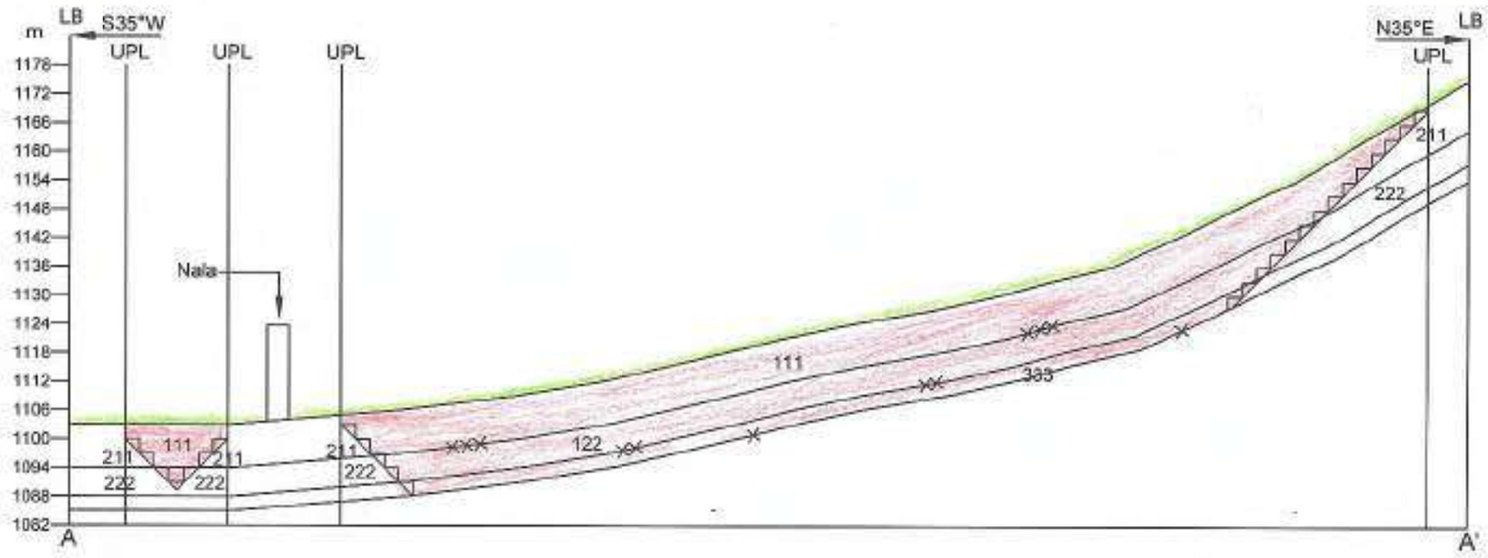
GEOLOGICAL MAP

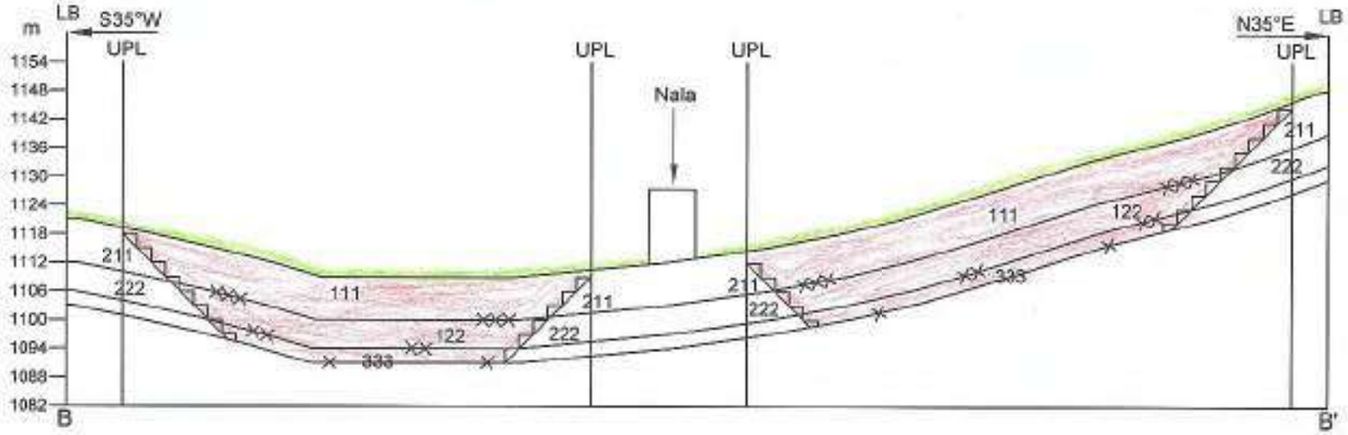
SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 28.264ha. Demarcated- 7.841ha.)

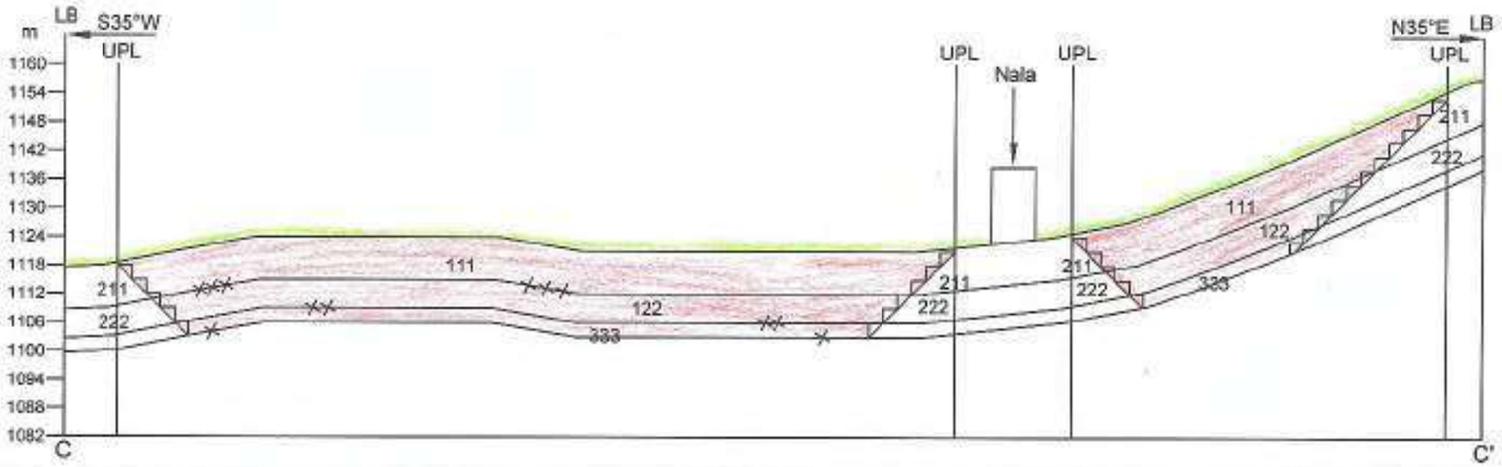
SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 348/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA







INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- LB — LEASE BOUNDARY
- UPL — ULTIMATE PIT LIMIT
- MINING BENCHES
- MEASURED MINERAL CONTACT
- INDICATED MINERAL CONTACT
- INFERRED MINERAL CONTACT
- 111 — PROVED/ MEASURED MINERAL RESERVES
- 122 — PROBABLE/ INDICATED MINERAL RESERVES
- 333 — POSSIBLE/ INFERRED MINERAL RESERVES
- 211 — FEASIBILITY MINERAL RESERVES
- 222 — PRE-FEASIBILITY MINERAL RESERVES

Certified that Plan is correct to the best of my knowledge & belief.

Harish Kainthola
भू0ख0/05/खनन/RQP/2015-16

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Scale
10 0 10 20 30 40 50m

PLATE - 5A

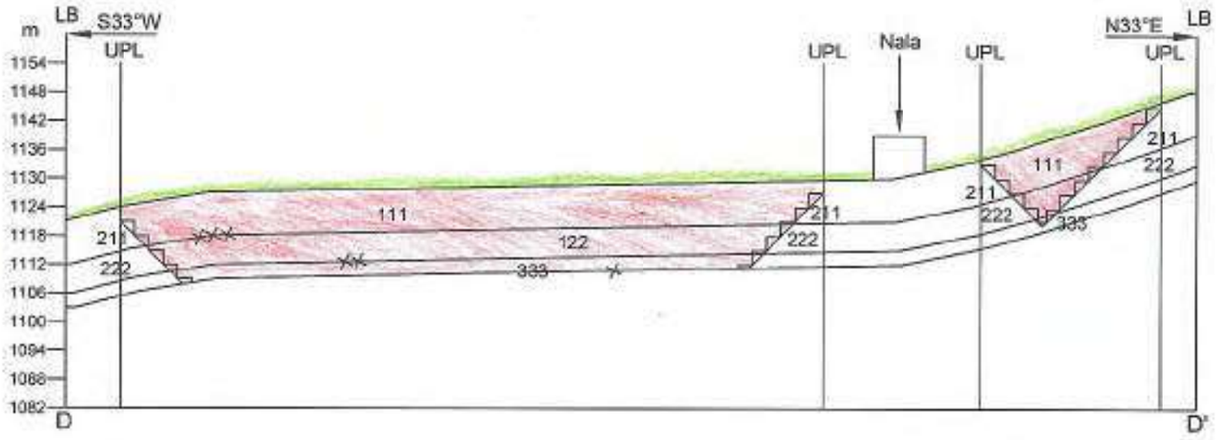
GEOLOGICAL SECTIONS

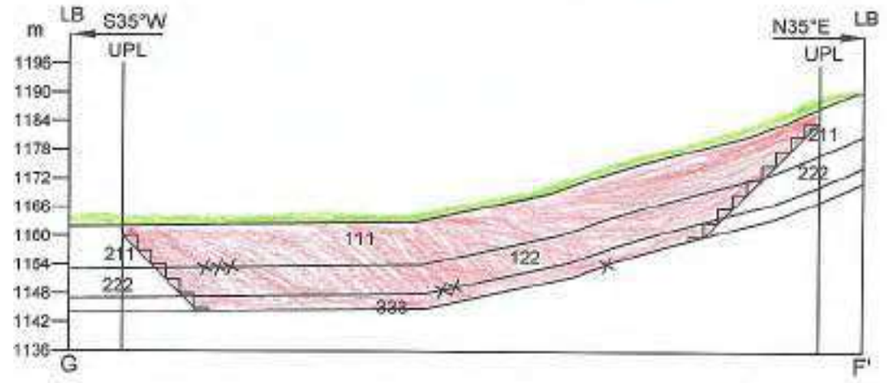
SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha, out of 28.264ha. Demarcated- 7.841ha.)

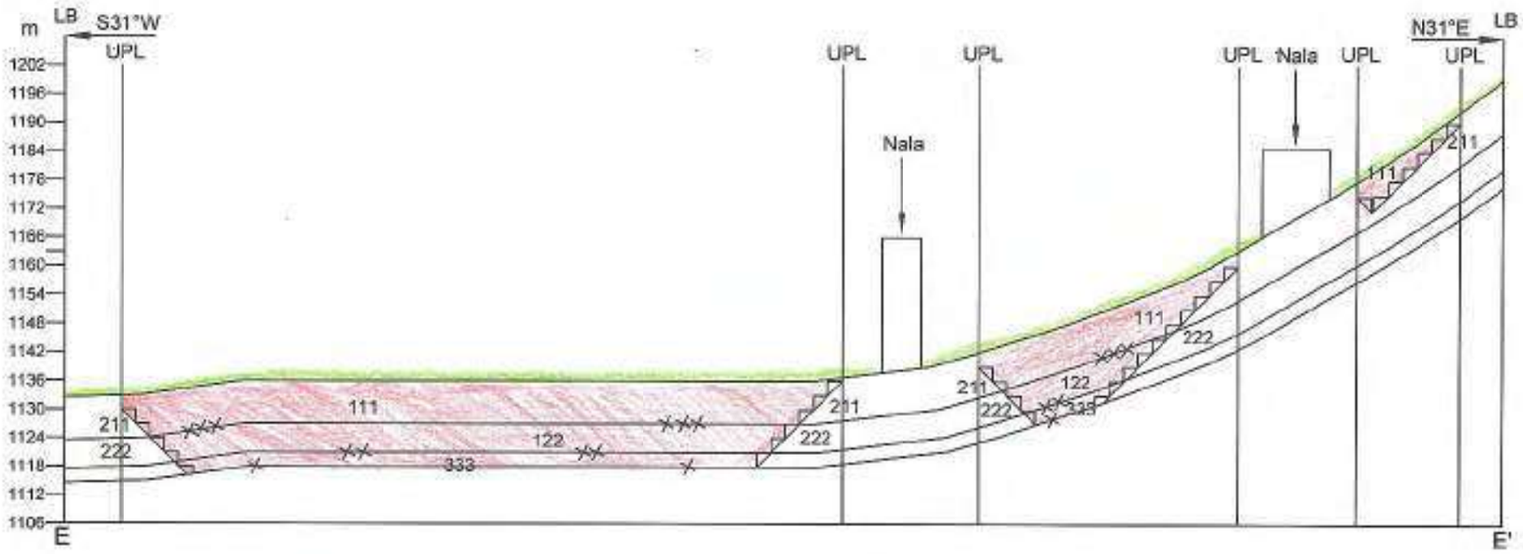
SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777

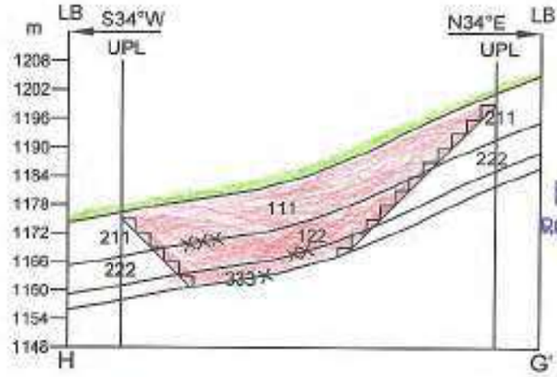
PREPARED BY- KAILASH CHANDRA

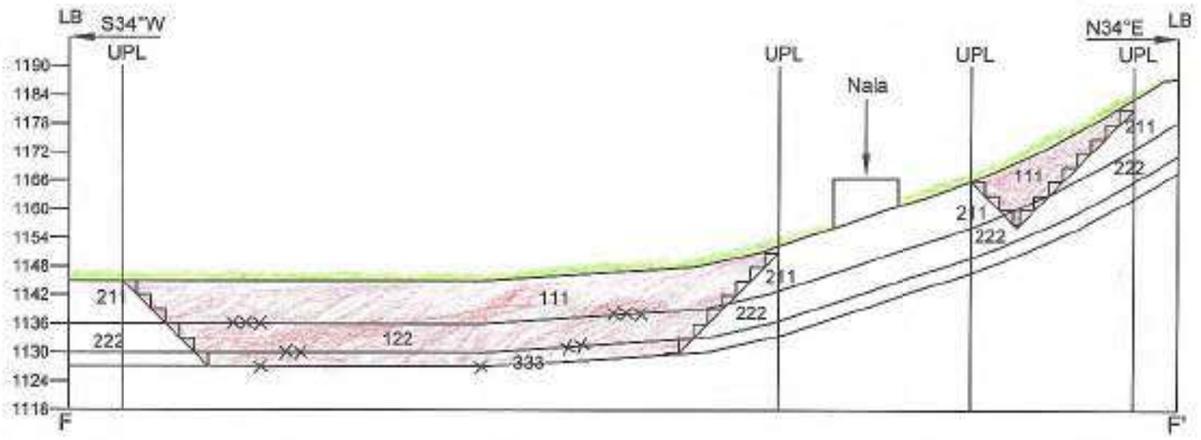
CHECKED BY- HARISH KAINTHOLA











Certified that Plan is correct to the best of my knowledge & belief.

Harish Kainthola
भू0खo / 05 / खनन / RQP / 2015

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Scale
10 0 10 20 30 40 50m

INDEX

	SOIL COVER	X	INFERRED MINERAL CONTACT
	SOAPSTONE BEARING WITH LOW GRADE MAGNESITE	111	PROVED/ MEASURED MINERAL RESERVES
LB	LEASE BOUNDARY	122	PROBABLE/ INDICATED MINERAL RESERVES
UPL	ULTIMATE PIT LIMIT	333	POSSIBLE/ INFERRED MINERAL RESERVES
	MINING BENCHES	211	FEASIBILITY MINERAL RESERVES
XXX	MEASURED MINERAL CONTACT	222	PRE-FEASIBILITY MINERAL RESERVES
XX	INDICATED MINERAL CONTACT		

PLATE - 5B

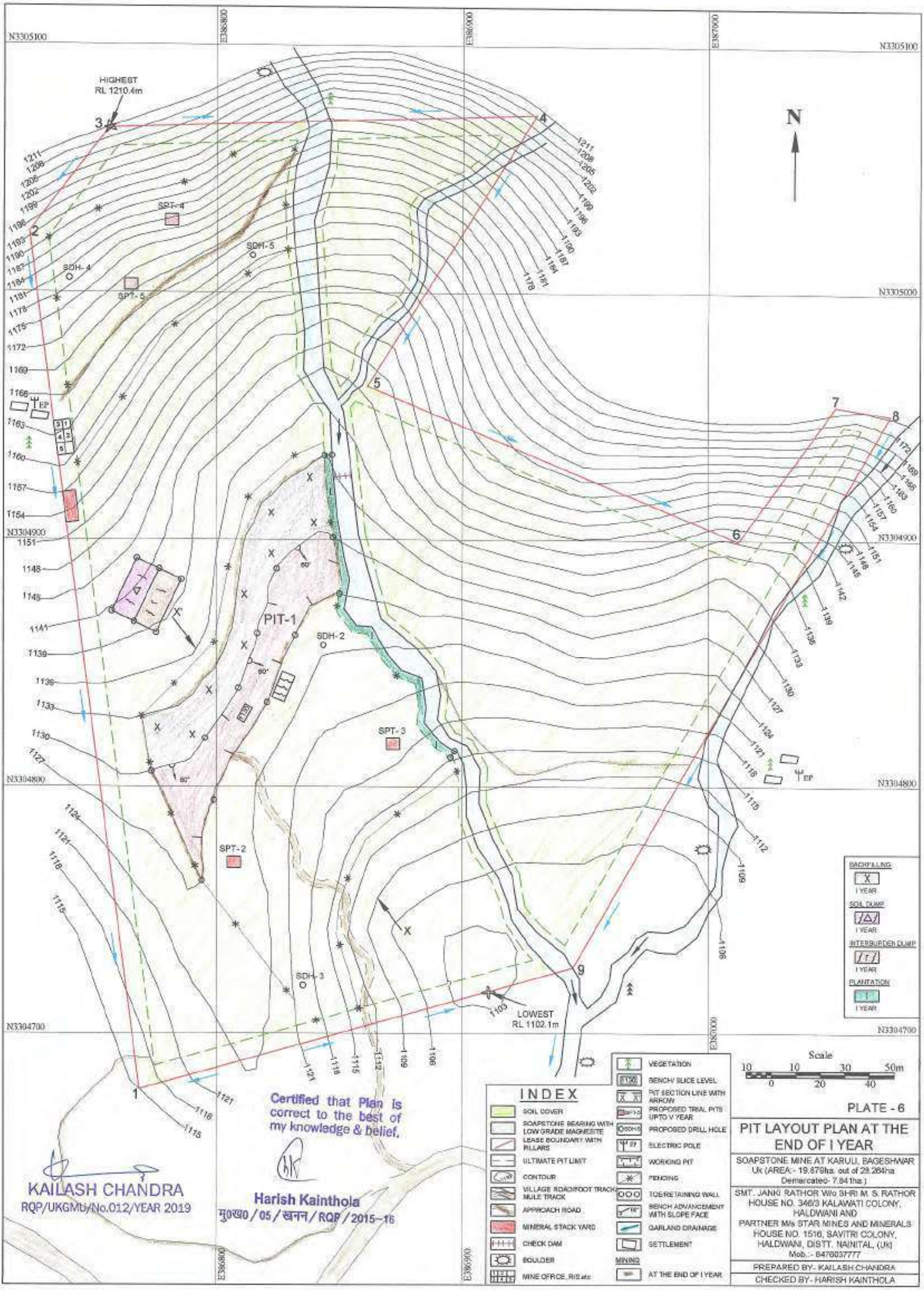
GEOLOGICAL SECTIONS

SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.875ha. out of 28.264ha. Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 348/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA



Certified that Plan is correct to the best of my knowledge & belief.

KAILASH CHANDRA
RQP/UKGMb/No.012/YEAR 2019

Harish Kainthola
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PLATE - 6

PIT LAYOUT PLAN AT THE END OF I YEAR

SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.679ha. out of 29.284ha Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (UK)
Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA

HIGHEST
RL 1210.4m

LOWEST
RL 1102.1m

N

PIT-1

SPT-3

SPT-4

SPT-5

SDH-3

SDH-4

SDH-5

Certified that Plan is correct to the best of my knowledge & belief.

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Harish Kainthola
मु0ख0/05/खनन/RQP/2015-16

BACKFILLING
I YEAR II YEAR
SOIL DUMP
I YEAR II YEAR
INTERBURDEN DUMP
I YEAR II YEAR
PLANTATION
I YEAR II YEAR

INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- VILLAGE ROAD/FOOT TRACK/ MULE TRACK
- APPROACH ROAD
- MINERAL STACK YARD
- CHECK DAM
- BOULDER
- MINE OFFICE, RUS etc.
- VEGETATION
- BENCH/ SLICE LEVEL
- PIT SECTION LINE WITH ARROW
- PROPOSED TRIAL PITS UPTO V YEAR
- PROPOSED DRILL HOLE
- ELECTRIC POLE
- WORKING PIT
- FENCING
- TOE/RETAINING WALL
- BENCH ADVANCEMENT WITH SLOPE FACE
- GARLAND DRAINAGE
- SETTLEMENT

MINING
AT THE END OF II YEAR

Scale
10 0 10 20 30 40 50m

PLATE - 7

PIT LAYOUT PLAN AT THE END OF II YEAR

SOAPSTONE MINE AT KARULI, BAGESHWAR
Ur (AREA:- 19.679ha. out of 28.264ha
Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 348/3 KALAWATI COLONY,
HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY,
HALDWANI, DISTT. NAINITAL, (UK)
Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA
CHECKED BY- HARISH KAINTHOLA

N3305100 E386800 E386900 E387000 N3305100

HIGHEST
RL 1210.4m

N

N3305000

SPT-4

SDH-5

SDH-4

SPT-5

PIT-1

EP

N3304900

N3304800

N3304700

LOWEST
RL 1102.1m

E386800 E386900

Certified that Plan is correct to the best of my knowledge & belief.

KAILASH CHANDRA
RQP/UKGMU/No:012/YEAR 2019

Harish Kainthola
मुण्डा0/05/खनन/RQP/2015-16

BACKFILLING
I YEAR II YEAR III YEAR

SOIL DUMP
I YEAR II YEAR III YEAR

INTERBURDEN DUMP
I YEAR II YEAR III YEAR

PLANTATION
I YEAR II YEAR III YEAR

Scale
10 0 10 20 30 40 50m

INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- VILLAGE ROAD/FOOT TRACK/ MULE TRACK
- APPROACH ROAD
- MINERAL STACK YARD
- CHECK DAM
- BOULDER
- MINE OFFICE, R/S etc
- VEGETATION
- PIT SECTION LINE WITH ARROW
- PROPOSED TRIAL PITS UPTO V YEAR
- PROPOSED DRILL HOLE
- ELECTRIC POLE
- FENCING
- TOE/RETAINING WALL
- GARLAND DRAINAGE
- SETTLEMENT

MINING
- AT THE END OF III YEAR

PLATE - 8

PIT LAYOUT PLAN AT THE END OF III YEAR

SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 28.284ha Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 3463 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob. - 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA

N3305100 E386800 E386900 E387000 N3305100

HIGHEST
RL 1210.4m

PIT-2

PIT-1

SPT-5

SPT-5

EP

EP

LOWEST
RL 1102.1m

N3305000 N3304900 N3304800 N3304700

E386800 E386900 E387000

N

Scale
10 0 10 20 30 40 50m

BACKFILLING
I YEAR II YEAR III YEAR IV YEAR

SOIL DUMP
I YEAR II YEAR III YEAR IV YEAR

INTERBURDEN DUMP
I YEAR II YEAR III YEAR IV YEAR

PLANTATION
I YEAR II YEAR III YEAR IV YEAR

INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- VILLAGE ROAD/FOOT TRACK/ MULE TRACK
- APPROACH ROAD
- MINERAL STACK YARD
- CHECK DAM
- BOULDER
- MINE OFFICE, R/S etc
- VEGETATION
- BENCH/ SLICE LEVEL
- PIT SECTION LINE WITH ARROW
- PROPOSED TRIAL PITS UPTO V YEAR
- PROPOSED DRILL HOLE
- ELECTRIC POLE
- WORKING PIT
- FENCING
- TOE/RETAINING WALL
- BENCH ADVANCEMENT WITH SLOPE FACE
- GARLAND DRAINAGE
- SETTLEMENT

MINING
AT THE END OF IV YEAR

Certified that Plan is correct to the best of my knowledge & belief.

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Harish Kainthola
मु0ख0 / 05 / खनन / RQP / 2015–16

PLATE - 9

PIT LAYOUT PLAN AT THE END OF IV YEAR

SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 28.264ha Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA

N3305100 E3368000 E3369000 E3370000 N3305100

HIGHEST
RL 1210.4m

N

PIT-2

PIT-1

N3305000

N3304900

N3304800

N3304700

LOWEST
RL 1102.1m

EP

Certified that Plan is correct to the best of my knowledge & belief.

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Harish Kainthola
मु0खा0 / 05 / खनन / RQP / 2015-16

BACKFILLING
I YEAR | II YEAR | III YEAR | IV YEAR | V YEAR

SOIL DUMP
I YEAR | II YEAR | III YEAR | IV YEAR | V YEAR

INTERBURDEN DUMP
I YEAR | II YEAR | III YEAR | IV YEAR | V YEAR

PLANTATION
I YEAR | II YEAR | III YEAR | IV YEAR | V YEAR

Scale
10 0 10 20 30 40 50m

PLATE - 10

INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- VILLAGE ROAD/FOOT TRACK/ MULE TRACK
- APPROACH ROAD
- MINERAL STACK YARD
- CHECK DAM
- BOULDER
- MINE OFFICE /Bldg.etc
- VEGETATION
- PIT SECTION LINE WITH ARROW
- ELECTRIC POLE
- FENCING
- TOE/RETAINING WALL
- GARLAND DRAINAGE
- SETTLEMENT

MINING
- AT THE END OF V YEAR

PIT LAYOUT PLAN AT THE END OF V YEAR

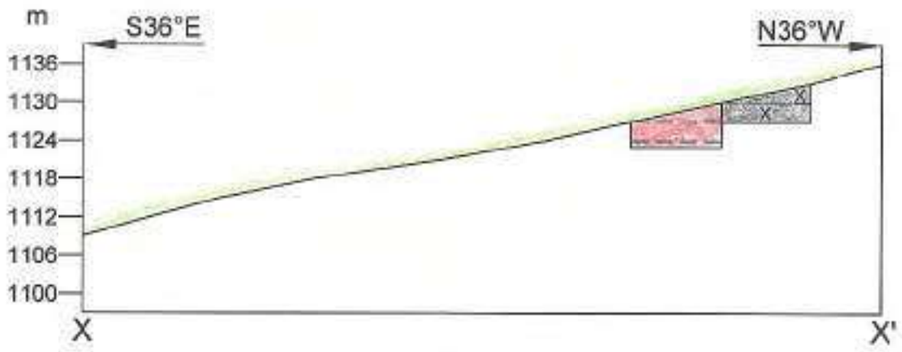
SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 25.284ha Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 348/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777

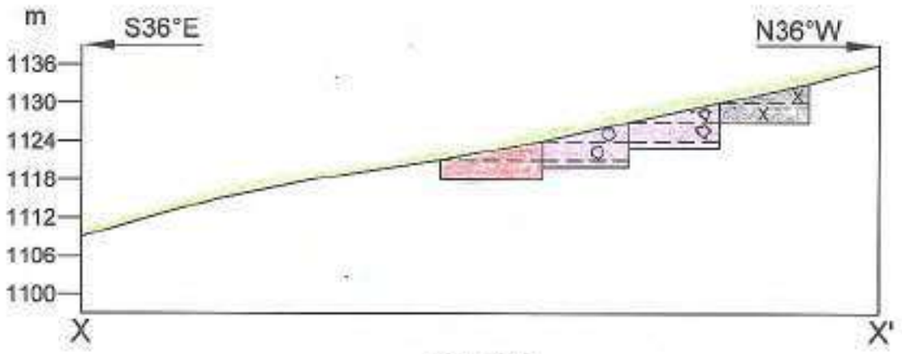
PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA

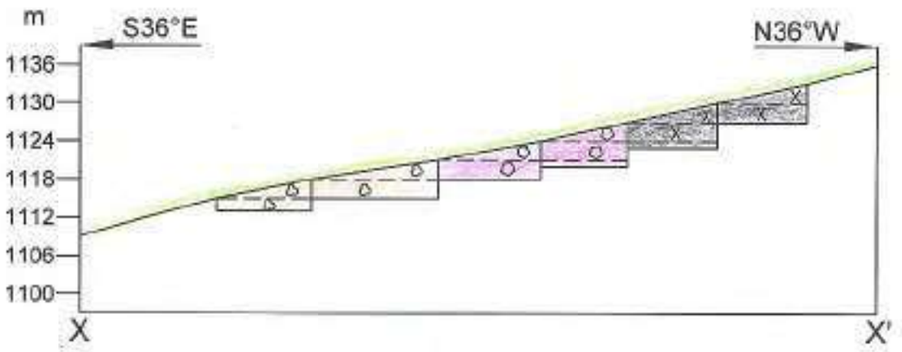
PIT-1



I YEAR

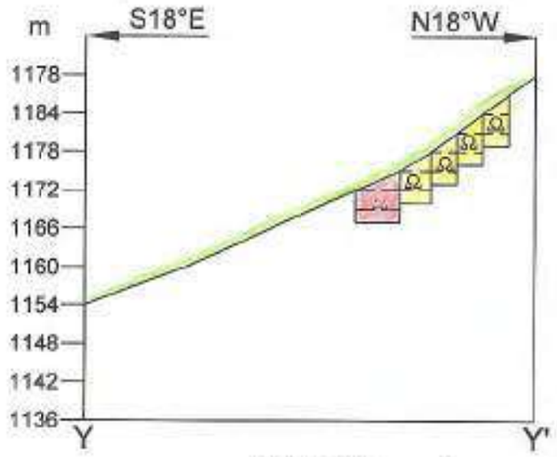


II YEAR

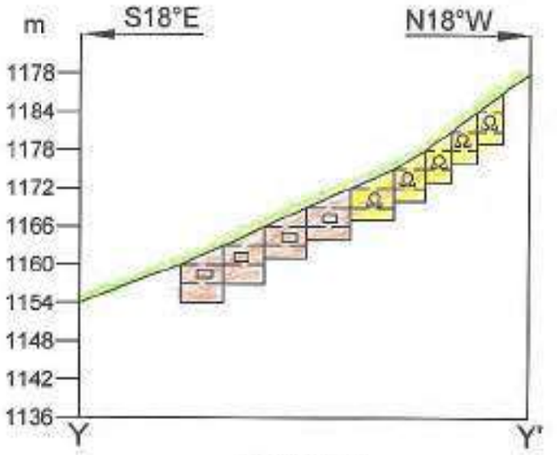


III YEAR

PIT- 2



IV YEAR



V YEAR

Certified that Plan is correct to the best of my knowledge & belief.

Harish Kainthola
मु0खo/05/खनन/RQP/2015

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

PLATE - 11

INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- ULTIMATE MINING BENCHES

BACKFILLING

I YEAR, II YEAR, III YEAR, IV YEAR, V YEAR

Scale

10 0 10 20 30 40 50m

PIT SECTIONS

SOAPSTONE MINE AT KARULI,BAGESHWAR Uk (AREA:- 19.879ha. out of 28.264ha. Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 346/3 KALAWATI COLONY,
HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY,
HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA

E386400 E386900 E387400

N3305300

N3304800

N3304300

N

PREDOMINENT WIND DIRECTION

SEASONAL VARIATION (NE to ENE)

INDEX

- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- RIVER/ NALA/ GADHERA
- ROAD
- MINING (END OF V YEAR)
- TOE/RETAINING WALL
- CHECK DAM
- SETTLEMENT
- BUFFER ZONE 60m
- BUFFER ZONE 500m

PROPOSED PLANTATION

- END OF V YEAR
- END OF LEASE PERIOD

LAND USE

- CULTIVATED LAND
- BARREN LAND
- FOREST LAND

Scale

50 0 50 100 150 200 250m

Certified that Plan is correct to the best of my knowledge & belief.

Harish Kainthola
मु0खा0 / 05 / खनन / RQP / 2015–16

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

PLATE - 12

ENVIRONMENTAL MANAGEMENT PLAN

SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.679ha. out of 28.264ha. Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND PARTNER M/s STAR MINES AND MINERALS HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk) Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA

SCALE 1:5000

N3305100 E3865800 E3866900 E3870000 N3305100

HIGHEST
RL 1210.4m

N3305000

N3304900 N3304900

N3304800 N3304800

N3304700 N3304700

LOWEST
RL 1102.1m

PIT-2

PIT-1

N

Scale
10 0 10 20 30 40 50m

PLATE - 13

Certified that Plan is correct to the best of my knowledge & belief.

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Harish Kainthola
कु0खा0/05/खनन/RQP/2015-16

INDEX

- SOIL COVER
- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- DRAINAGE/ NALA/ GADHERA
- VILLAGE ROAD/FOOT TRACK/ MULE TRACK
- APPROACH ROAD
- REBUILT TOPOGRAPHY/ REBUILT CONTOUR
- TOE/RETAINING WALL
- GARLAND DRAINAGE
- CHECK DAM IN I YEAR
- CHECK DAM IN II YEAR
- CHECK DAM IN III YEAR
- CHECK DAM IN IV YEAR
- CHECK DAM IN V YEAR

BACKFILLING
UPTO V YEAR
SUBSEQUENT YEAR

SOIL DUMP
UPTO V YEAR
SUBSEQUENT YEAR

INTERBURDEN DUMP
UPTO V YEAR
SUBSEQUENT YEAR

PLANTATION
I YEAR
II YEAR
III YEAR
IV YEAR
V YEAR
SUBSEQUENT YEAR

MINING
I YEAR
II YEAR
III YEAR
IV YEAR
V YEAR
SUBSEQUENT YEAR

PMCP/ RECLAMATION PLAN

SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 28.284ha Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 8476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA

N3305100 E386800 E386900 E387000 N3305100

HIGHEST
RL 1210.4m

N

N3305000

PIT-2

PIT-1

SPP- 1

SPP- 2

SPP- 3

SPP- 4

SPP- 5

EP

N3304900

N3304800

N3304700

LOWEST
RL 1102.1m

E386800 E386900 E387000

Scale
10 0 10 20 30 40 50m

BACKFILLING
I YEAR | II YEAR | III YEAR | IV YEAR | V YEAR

PROPOSED PLANTATION
I YEAR | II YEAR | III YEAR | IV YEAR | V YEAR

MINING
I YEAR | II YEAR | III YEAR | IV YEAR | V YEAR

INDEX

- SOIL COVER
- SOAPSTONE BEARING WITH LOW GRADE MAGNESITE
- LEASE BOUNDARY WITH PILLARS
- ULTIMATE PIT LIMIT
- CONTOUR
- DRAINAGE/ NALA/ GADHERA
- VILLAGE ROAD/FOOT TRACK/ MULE TRACK
- APPROACH ROAD
- CHECK DAM
- SOLLDER
- MINE OFFICE, R/S etc
- VEGETATION
- ELECTRIC POLE
- PROPOSED PITS AT THE END OF LEASE PERIOD
- TOE/RETAINING WALL
- GARLAND DRAINAGE
- SETTLEMENT

Certified that Plan is correct to the best of my knowledge & belief.

KAILASH CHANDRA
RQP/UKGMU/No.012/YEAR 2019

Certified that Plan is correct to the best of my knowledge & belief.

Harish Kainthola
मु0खo/05/खनन/RQP/2015-16

PLATE - 14

FINANCIAL AREA ASSURANCE PLAN

SOAPSTONE MINE AT KARULI, BAGESHWAR Uk (AREA:- 19.879ha. out of 28.264ha. Demarcated- 7.841ha.)

SMT. JANKI RATHOR W/o SHRI M. S. RATHOR
HOUSE NO. 346/3 KALAWATI COLONY, HALDWANI AND
PARTNER M/s STAR MINES AND MINERALS
HOUSE NO. 1516, SAVITRI COLONY, HALDWANI, DISTT. NAINITAL, (Uk)
Mob.:- 9476037777

PREPARED BY- KAILASH CHANDRA

CHECKED BY- HARISH KAINTHOLA