Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

S/o ShriBhawaan Singh Shahi

Area: 30.566 Ha, Village- Batalgaon, Tehsil- Kapkot

District: Bageshwar (Uttarakhand),

EXECUTIVE SUMMARY

1.1 PURPOSE OF THEREPORT

Environmental Impact Assessment (EIA) is a decision making tool, in the hands of the Authorities which brings forth the factual position about a project that enables them in arriving at an appropriate conclusion for the proposed projects, to retain them if environmentally sound, and reject if found having deleterious overall impact. EIA identifies the extent of the environmental, social and economic impacts of a project prior to decision-making. EIA systematically examines both beneficial and adverse impacts of the proposed project over and above the prevailing conditions of environmental parameters and ensure that these impacts are taken into account during the project designing stage itself and the values of the combined impacts are never allowed to exceed and remain within the statutory norms. This process has been envisioned and set in motion by the Ministry of Environment and Forests for sustainable development and the final decision is arrived at only, when those to whom it matters are made known of the salient features of the project being envisaged close to them and their opinion has been sought in a widely advertised Public Hearing Event under the chairmanship of the district authorities so that public could also express their opinion free, without favour and fear. Environmental Impact Assessment report is prepared to comply with the Terms of Reference (TOR) received from SEIAA, Uttarakhand, under EIA Notification of the MoEF dated 19-8-2006, and its subsequent amendments and EIA Guidance Manual for Mining of Minerals of MoEF, Govt. of India, for seeking environmental clearance for mining of soapstone in the applied mining lease area measuring 30.566Ha. The proposed project falls under Category "B1" as per NGT order dated 13.09.2018 & OM dated 12th December 2018 by MOEF & CC which states that all 5-25 Ha projects falling under B-2 category will be considered as B1 & will be appraised by SEAC/SEIAA.

1.2 IDENTIFICATION OF PROJECT & PROJECTPROPONENT

The proposed project of ShriVikram Singh Shahiis for soapstone mining which covers an area of 30.566Ha. nearVillage- Batalgaon, Tehsil-Kapkot& District- Bageshwar, Uttarakhand.LOI has been granted in favour of ShriVikram Singh Shahivide Letter No. 2306/VII-A-1/21-27-soapstone

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S/o ShriBhawaan Singh Shahi

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dated 05.01.2022.for a period of 50 years attached as Annexure II.

Soapstone finds its uses in all aspects of life and commercial business. Soapstone has wide applications across various industries. Some uses for soapstone or talc are paper, textile, cosmetics, paint, ceramics, detergents, animal feed, insecticide, plastics and various drying powder. Soapstone, also known as Talc or Talcum Powder, is a mineral that is naturally found in nature. The chemical name for Talc or Talcum Powder is hydrated magnesium silicate. The region Uttarakhand accounts for 29% of India's soapstone production.

The Details of Production is depicted in Tables No. 1.1.

Year	_	of soapstone nnes)	Total Quantities of soapstone (tonnes)
I st	27725	8170	35895
II nd	32048	4680	36728
III rd	34489	2622	37111
IV th	37734	1248	38982
V th	40488	3877	44365
Total	172484	20597	193081

Total Proposed Production: 35895 TPA upto44365 TPA (1st to 5th Year)

Maximum Proposed Capacity: 44365 TPA (end of 5th Year)

The proposed mining project has been categorized as Category B1 project.

Proponent & Address ShriVikram Singh Shahi S/o ShriBhawaan Singh Shahi Village & Post-Ason, Tehsil-Kapkot, Distt- Bageshwar (U.K)

Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

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District:Bageshwar(Uttarakhand),

10.2.1 Brief description of nature, size and location of the project:

Brief details of the project are described in the Table No. 10.2 given below:

Table No.1.2:- Details of the Project

S.	Parameters	Description			
No.					
1.	Name of the Project	Batalgaon Soapstone Mine			
2.	Location of the Project		Village: Batalgaon, Tehsil- Kapkot, District- Bageshwar, State- Uttarakhand.		
3.	Project Proponent	ShriVikram Singh Shahi			
4.	Lease period validity	50years/specific year will be cal of lease deed.	culated w.e.f grant		
5.	Lease Details	It is fresh grant case of mining lease. State Govt. has given its consent to grant mining lease vide letter no. 2306/VII-A-1/21-27-soapstone dated 05.01.2022 for a period of 50 years.			
6.	Location of the Project				
	Village	Batalgaon			
	Tehsil	Kapkot			
	District	Bageshwar			
	State	Uttarakhand			
7.	Total Lease Area	30.566 Ha			
8.	Category of the Project	"B1"			
9.	Capacity of the Project	35895 TPA upto44365 TPA (1st to 5th Year) Maximum Production: 44365 TPA (end of 5th Year)			
10.	Topography	The highest level of lease hold is 1468.20mRL towards south west side & while lowest level is 1282.50mRL towards North East.			
11.	Lease Area Coordinate	Pillar No N 1. 29°53'42.51"N 2. 29°53'50.07"N 3. 29°53'56.57"N 4. 29°53'56.22"N	E 79°52'46.19"E 79°52'45.63"E 79°52'39.63"E 79°52'32.97"E		

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		5.	29°53'49.51"N	79°52'29.48"E
		6.	29°53'50.98"N	79°52'26.53"E
		7.	29°53'49.61"N	79°52'23.84"E
		8.	29°53'45.57"N	79°52'22.16"E
		9.	29°53'43.85"N	79°52'20.28"E
		10.	29°53'47.64"N	79°52'19.48"E
		11.	29°53'47.74"N	79°52'15.59"E
		12.	29°53'38.62"N	79°52'7.69"E
		13.		
			29°53'34.34"N	79°52'7.62"E
		14.	29°53'34.47"N	79°52'20.28"E
		15.	29°53'40.96"N	79°52'24.77"E
		16.	29°53'45.29"N	79°52'30.23"E
		17.	29°53'45.57"N	79°52'35.82"E
12.	Land Type	Agriculture	e land, State Govt. La	and & Public Utility
		Land.		
13.	Method of Mining	Opencast, I	Mechanized Method	
14.	Operational days/ Year	240 Days		
15.	Total Water Requirement	8.035 KLD	of water will be use	d for the project site
			use, Sprinkling,Planta	ation& Other use)
16.	Source of Water	Potable tan	Potable tankers	
17.	Man power requirement	29 persons		
18.	Nearest railway Station/	_	Railway Station –	90 km South aerial
	Airport along with distance in	distance		
	Kms	Airport: Na	ainiSaini Airport, Pi	thoragarh, 46.05 km,
		SE		,
19.	Nearest Town, City, District	Nearest To	wn/District: Bageshv	var 70 km NW
1).	-	1 (carest 10	will District. Dagesilv	vai, 7.0 kiii, 1 v
	Head Quarters along with			
	distance in Kms			
20.	Ecological sensitive areas	Not Availa	hla	
۷٠.		NOT Availa	UIC	
	(Wild life Sanctuaries,			
	National Parks, Biosphere			
	_			
	Reserves, etc.)			
21.	Historical Places	None		
22.	Financial & Social benefit	This Proje	ect will provide en	mployment to local
		people dire	ectly and indirectly,	which will improve
			economic status.	1
		men socio-	· cconomic status.	

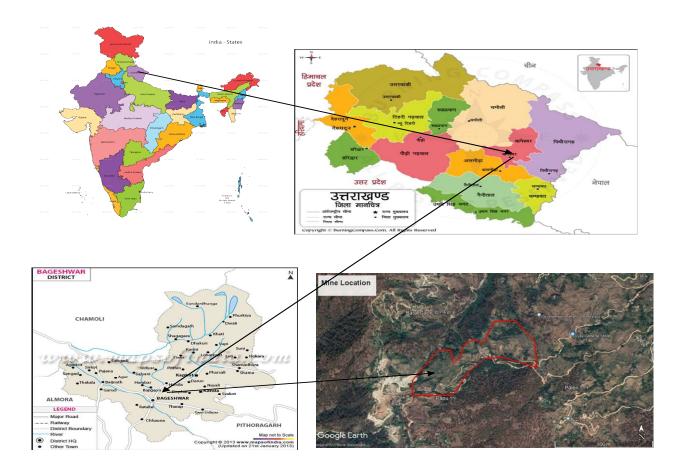
Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

S/o ShriBhawaan Singh Shahi

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23.	Proposed Project Cost	Rs. 53.9 Lakhs
24.	Proposed CER Cost	Rs. 2.695 Lakhs
25.	EMP Expenditure	Rs 6.15Lakhs



Location Plan

Figure: 1.1- Project Location

Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

S/o ShriBhawaan Singh Shahi

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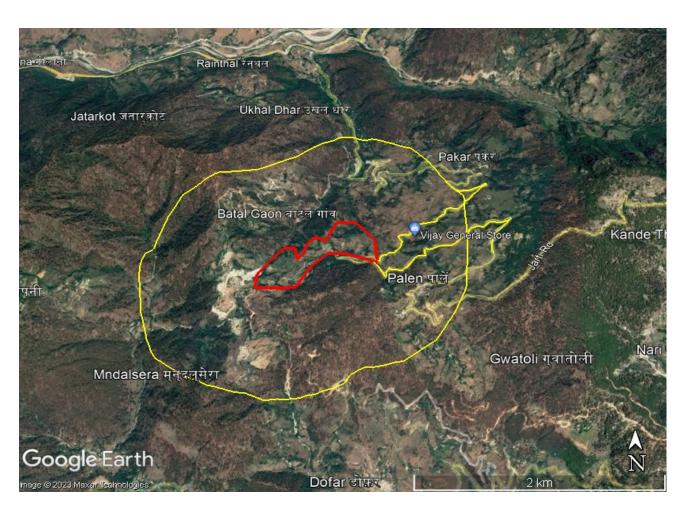


Figure: 1.3-Google Image

1.3 STATUS OF REGULATORY CLEARANCES OF THEPROJECT

There is no National Park, Wildlife Sanctuary & National Monument, within core zone or 10 km radius of the ML area.

There is no legal issue against the project in the court of law.

MINE DEVELOPMENT AND PRODUCTION

Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

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The mining will be done 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.

Method of Mining

It will be open cast mechanized mine. Excavator shall be deployed for the removal of overburden &interburden. The overburden consists of weathered boulders of low grade magnesite& dolomitic stone intermixed with yellowish soil cover & average thickness has been considered as 2.0m. Below overburden, soapstone,intermixed with magnesite& dolomitic boulders occurs. The overburden/interburden will be dumped separately towards slope of working pit secured with Gravity retaining walls. Mining shall be carried out in two pits viz. pit I& pit II. The width of benches shall be kept 8m, height of benches shall be kept 6m with face slope 68o. The soapstone will be extracted manually with the help of crow bar, chisels, pickaxe, hammers, spade etc scattered habitation exists towards north east side of the area. 10m barrier zone has been left from both sides of drainageas safety zone & considered as restricted zone for mining & all quantities of mineral with in restricted zone is considered under inferred mineral resources. Soapstone is soft mineral therefore no drilling & blasting shall be required. No further beneficiation will be required except breaking & sorting. The different grade of soapstone will be filled into 50 kg plastic bags & transported up to road side by manually. From road side the soapstone bags will be loaded into trucks through manually and transported to Haldwani. Lessee shall obtain requisite permission from DGMS for deployment of HEMM.

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1.4IMPACT 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.

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.

1.5LAND USE PATTERN

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

Forest Land	Area (ha)	Non forest Land	Area (ha)
Forest(Specify)	Nil	Waste land	Nil
Area(ha)			
		Agriculture land	25.488
		Other(specify)	0.583
		Public Utility land	
		State Govt. land	4.495
Total	Nil		30.566

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1.6 BASELINE ENVIRONMENTAL STATUS

Three soil samples were collected in and around the mine lease area to assess the present soil quality of the region. 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 (7.18 to 7.51). 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 265-293µmhos/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.

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

Meteorology

Meteorological data at the site was monitored during January 2023 to March 2023 representing premonsoon season.

Ambient Air Quality

Ambient Air Quality Monitoring (AAQM) has been carried out at eight locations during premonsoon season from Jan to march 2023. The minimum and maximum level of PM10 recorded within the study area was in the range of 54.6μg/m³ to 91.6μg/m³ with the 98th percentile 81.84μg/m³. The minimum and maximum level of PM2.5 recorded within the study area was in the range of 35.5μg/m³ to 53.5μg/m³ with the 98th percentile 38.92 μg/m³. The minimum and maximum concentration of SO2 recorded within the study area was 5.35 /m³to 13.43μg/m³ with the 98th percentile 9.96μg/m³. The minimum and maximum level of NO2 recorded within the study area was in the range of was 16.84μg/m³ to 33.42μg/m³ with the 98th percentile 20.65 μg/m³. The results thus obtained indicate that the concentrations of PM10, PM2.5, SO2 and NO2 in the

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Ambient Air are well within the National Ambient Air Quality (NAAQ) standards for Industrial, Residential, Rural and other areas

Water Quality

The water quality in the impact zone was assessed through physico-chemical and Microbiological analysis of ground water samples. The results have been compared with the drinking water quality standards specified in IS: 10500. It was observed that all the physico- chemical parameters and heavy metals from ground water samples are below stipulated limits for drinking water standards.

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 waters from 7.19to7.35and the surface waters are 7.65to7.70. 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 are varying from 265 mg/l to 275 mg/l l. The TDS of the samples were above 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 surface water samples collected in the study area were ranging from 15 mg/l to a maximum of 19 mg/l, in ground water samples 14mg/l to 24mg/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

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effects on domestic use will be observed. In the ground water samples collected from the study

area, the hardness is varying from 174 mg/l to 182mg/l.

□ Fluoride is the other important parameter, which has the desirable limit of 1 mg/l and permissible

limit of 1.5 mg/l. however the optimum content of fluoride in the drinking water is 0.6 to 1.5 mg/l.

If fluoride content is less than 0.6 mg/l it causes dental carries, above 1.5 mg/l causes flurosis. In

the ground water samples of study area the fluoride value were in the range of 0.2 mg/l to 0.5 mg/l.

In surface water 0.39mg/l to 0.42mg/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.

NoiseLevels

The noise level monitoring results of Januay, 2023 to March, 2023 are presented below in Table 3.5.

The ambient noise level in study area during the day time varies from 43.50 to 65.20dB (A) and

32.80 to 58.50dB (A) during night which is within the specified limits of CPCB.

Ecological Environment-

There are no wildlife sanctuaries and National Parks within the study area of 10-km radius.

1.7 ANTICIPATED ENVIRONMENTAL IMPACTS

Impact on Air Quality

Soapstone mine where PM10 and PM2.5 will be the main pollutants generated in mining activities.

The emissions of Sulphur dioxide (SO2), Nitrogen Oxide (NO2) 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

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sprinklers. Prediction of impacts on air environment will be made with proposed production and

net increase in PM10 and PM2.5 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

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.

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.

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, it is imperative that noise levels would increase. It is

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also observed that these incremental noise levels will not significantly affect the existing ambient

noise levels.

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.

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.

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.

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.

Impact on Socio - Economic Aspects

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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

1.8 ENVIRONMENTALMANAGEMENTPLAN

The summary of environmental mitigation measures are given in below table

Table 1.3: Proposed Environmental Mitigation Measures

Table 1.5. 110 poseu Environmental Witigation Vicasures			
Impact Predicted	Suggestive measure		
Disturbance of free	Awareness camps will be conducted for labours to make them		
movement/living of wild	aware about sensitivity/importance of forestlife.		
fauna	 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 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 atall.		
	• 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 threemonths. 		

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	 No honk will be allowed in the forest area, noise level will be within permissible limit (silent zone-50dB during day time)aspernoisepollution(regulationand 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 forestarea. Collections of economically important plants will be fully restricted.

1.9ANALYSIS 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 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.

1.10 ENVIRONMENTAL MONITORINGPROGRAM

Attributes	Sampling		Measurement	Test Procedure
	Network	Frequency	Method	
A. Air Environment	,			
Pollutants PM2.5,	5 locations in the project	Once in a season.	Gravimetric method	-
PM_{10}	impact area (Minimum 2		Gravimetric method	-
SO ₂	Locations in upwind side, 3 sites in Downwind side / impact zone and 1 in core zone)		EPA Modified West & Geake method	Absorption inPotassium Tetra Chloromercurate followed by Colorimetric estimation using P-Rosaniline hydrochloride and Formaldehyde (IS: 5182 Part - II).

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				1
NO_2			Arsenite	Absorption indil.
			modified	NaOH and then
			Jacob	estimated
			Hochheiser	colorimetrically with
				sulphanilamide and N
				(I-Nepthyle) Ethylene
				diamineDihydrochlori
				deandHydrogenPeroxi
				de
				(CPCB Method).
B. Water Environme	ent			
pH, Turbidity,	Set of grab	Diurnal and	As per IS	Samples for water
Colour, Odour,	samples during	Season wise	10500	quality should be
Taste, TDS, Total	pre and post-			collected and analyzed
Hardness,	monsoon for			as per : IS : 2488 (Part
Calcium	ground and			1-5) methods for
hardness,	surface Water			sampling and testing of
Magnesium	in the vicinity.			Industrial effluents
hardness,	-			Standard methods for
Chloride,				examination of water
Fluoride,				and wastewater analysis
Sulphate,				published by American
Nitrates,				Public Health
Alkalinity, Iron,				Association.
Copper,				
Manganese,				
Mercury,				
Cadmium,				
Selenium,				
Arsenic, Cyanide,				
Lead,				
Zinc,				
Chromium,				
Aluminum,				
Boron,				
Phenolic				
Compounds				
_		C. Noise		
Noise levels at	Mine Boundary	Quarterly	As per CPC	CB As per
Day & night time -	, High noise	Half	norms	CPCB
Leq dB (A)	generating areas	yearly		norms

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	•.1 •			
	within			
	the lease			
		D. Soil		
pH, Bulk	3 locations	Yearly/half	As per	As per
Density, Soil	in the project	yearly	USDA	USDA
texture,	impact area		Method	Method
Nitrogen,				
Available				
Phosphorus,				
Potassium,				
Calcium,				
Magnesium,				
Sodium, Electrical				
Conductivity,				
Organic Matter,				
Chloride				
		E. Socioeconomi		
Demographic	Socioeconomic	Minimum for	Primary	Secondary data
structure	survey is based	two phases of		from census
Infrastructure	on	the project		records, statistical
resource base	proportionate,			hard books, topo
Economic	stratified and			sheets, health
resource base	random			Records and
Health status:	sampling			relevant official
Morbidity	method			records available
pattern Cultural				withGovt.
and Aesthetic				Agencies
attributes				
Education				

1.10COST ESTIMATES

The details of the cost to for the Environmental Management plan for 5 years, the budget for Corporate Environmental Responsibility (CER) and year wise allocation of funds for the various activities proposed to be taken up under CER programme has been given in below **Table No – 4**

CER plan is given below:

➤ Total Cost of the Project = Rs.104.457Lakhs

Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi S/o ShriBhawaan Singh Shahi

Area: 30.566 Ha, Village- Batalgaon, Tehsil- Kapkot

District:Bageshwar(Uttarakhand),

Yearly CER cost for the project, i.e. 2% of the total project cost

Rs. 104.457Lakhs x 0.02 =Rs. (2.089Lakhs)

This is the proposed cost CER Plan, Activities and actual cost will be finalized as per the Actual need of the area.

(ON THE BASIS OF NEED BASE ASSESSMENT SURVEY)

Table No – 4Budget allotted for CER

	This is the Proposed CER Plan, Activities will be Finalized as per the Actual need of the area (ON THE BASIS OF NEED BASE ASSESSMENT SURVEY)				
S.N.	S.N. Particulars Activity				
1.	Drinking water supply	Provide drinking water facility in surrounding villages and schools by hand pump installation.			
2.	Health	Free distribution of medicines, health check-up camps nearby village			
3.	Electrification including solar power	Solar lamp distribution& Solar street light installation			
4.	Sanitation	Constructed the Toilets facilities for women nearby village			
5.	Education	Distribution of school bags & Books in nearby Primary Schools			

Table No.-5 Budget allotted for project operation cost & Environmental Management Programme

S.	Description	Unit	Total (Rs.)
No.			
A. Pr	oject Operation Cost		
1.	Manpower Cost:	(Total Man power 78) Assuming	75,31,200
	Mine Engineer (Full time) - 01 Geologist (Full time) -01 Skilled workers -02	240days Rs. 25,000/ month= 3,00,000 Rs. 35,000/ month= 4,20,000 Rs. 500/ day= 1,20,000 x 2=2,40,000	
	Un skilled: Laborers charge -74	Rs.370 / day= 88,800x74=65,71,200	

Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

S/o ShriBhawaan Singh Shahi

Area: 30.566 Ha, Village- Batalgaon, Tehsil- Kapkot

District:Bageshwar(Uttarakhand),

2.	Expenditure on Occupational Health:		5,32,000
	PPE Kit, First Aid Facility, Mask, Hand	2000/worker (2000 x 78)= 1,56,000	
	wash & Sanitizer		
	Medical checkup and Medicine (Once in a month)	Doctor's visit: 10,000/ month (8 working months) =80,000 Medicines (Assuming 500/worker) 500 x 74 = 37,000 (Mine operation Month: 8) = 2,96,000	
3.	Equipment's/Tools/Machineries	240 days Assuming Rs.3000/day	7,20,000
4.	Drinking and Sanitary Facilities	 Rs. 2000/day for drinking/domestic (240 days) Rs. 30,000/ Bio-toilets x 2 	5,40,000
	Total Project Operation Cost (A)		Rs. 93,23,200
			(93.232Lakhs)

B. Break-up of Expenditure on Environment Protection & Environment Management					
5.	Haulage Road Repair & Maintenance	Annual	1,00,000		
	 Filling, Leveling and widening of 				
	the road up to width of 6m and	200 m (L) x 6 m (W)			
	length of 200 m.				
	Setting & Fixing of Cut Stone on				
	the leveled road.				
6.	Water Sprinkling on Haulage Road	Assuming Rs.1000/day for 240 days of	2,40,000		
	for Dust Suppression	working			
		Tanker Cost: Rs. 1000/Tanker			
		Tanker Capacity: 5000 liter,			
		No. of Tankers required: 1			

Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

S/o ShriBhawaan Singh Shahi

Area: 30.566 Ha, Village- Batalgaon, Tehsil- Kapkot

District: Bageshwar (Uttarakhand),

7.	Plantation along the road side	Plantation@100/sapling	3,82,500
	& post plantation care	(2000 sapling/Year)	
		Post plantation care @500/day	
		(For 2000 Saplings Annually.i.e.365 days).	
		Note: Annual cost will increase with increase in no. of sapling.	
8.	Environmental Monitoring &	> Half Yearly Monitoring of	4,00,000
	Compliances.	Environmental Parameters viz. Air,	
		water, Noise & Soil.	
		➤ Half Yearly Submission of Compliances.	
	Total Environment Pro	Rs. 11,22,500	
		(11.225 Lakhs)	
	Total Project	Rs93.232+	
		11.225 =	
			(104.457 Lakhs)

1.11ADDITIONAL STUDIES

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.

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.

1.12 PUBLIC CONSULTATION

Public Hearing

Project: Batalgaon Soapstone Mining Project Project Proponent:ShriVikram Singh Shahi

S/o ShriBhawaan Singh Shahi

Area: 30.566 Ha, Village- Batalgaon, Tehsil- Kapkot

District: Bageshwar (Uttarakhand),

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

1.13PROJECT 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.

1.14CONCLUSIONS

- •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.