VILLAGE- TUPER TOK BINSAR TEHSIL & DISTRICT-BAGESHWAR,

STATE- UTTARAKHAND

AREA: 3.594 HA

EXECUTIVE SUMMARY

"Tuper Tok Binsar Soapstone Mining Project"

At

Village- Tuper Tok Binsar,
Tehsil & District-Bageshwar,
State- Uttarakhand
(Area- 3.594 Ha)

Submitted by

M/s Jai Shree Hari Soapstone Chirang

Partner- Shri Rajendra Singh Chauhan & Shri Vijyendra Singh

R/o – Tuper Tok Binsar, Tehsil & District- Bageshwar

Uttarakhand - 263642

Prepared by

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Certificate No. NABET/EIA/1922/SA0186, Valid Till: September 10, 2023







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1.0 INTRODUCTION OF PROJECT & PROPONENT

Environmental Impact Assessment (EIA) is a decision-making tool, 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.

The proposed project of Tuper Tok Binsar Soapstone Mining Project by M/s Jai Shree Hari Soapstone Chirang is for soap stone mineral mining which covers an area of 3.594 Ha. At Village- Tuper Tok Binsar, Tehsil- Bageshwar, District-Bageshwar, State- Uttarakhand. LOI has been granted in favour of M/s Jai Shree Hari Soapstone Chirang, vide letter no. 1211/VII-A-1/2021/1(22)/21 dated 01.10.2021, for a period of 25 years attached as Annexure II. The EIA-EMP report has been prepared as per the TOR granted under the EIA Notification of September 14th 2006. In order to assess the impact on environment due to proposed mining, it is necessary to as certain the present status of environment prevailing at the project site and identification and assessment of impacts on the environment of the proposed operations.

As per NGT Order Dated 13-09-2018 and MOEF & CC OM No L-11011/175/2018-IA-II (M) Dated 12-12-2018 the project comes under B1 Category as the cluster area is more than 5 Ha. Environmental Impact Assessment report is prepared to comply with the Terms of Reference (TOR) received from SEIAA, Uttarakhand, under EIA Notification of the MoEF, Ref. No. 254/SEIAA dated 31-03-2023.

1.1 LOCATION

Detail of site & surrounding around Lease Area

Nearest Settlements	Tuper 0.62 km (WSW)
	Chirang 0.60 km (NE)
	Cilitating 0.00 km (IVL)







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Nearest Road	National Highway (NH-309A) 3.24 km* towards SSE direction.			
	MDR (Bageshwar-Dofar-Dharamagarh Rd.) 0.31 km in ESE direction			
Nearest Airport	Pant-nagar Airport, towards SSW direction (98.60 km*)			
Nearest Railway Station	Pant-Nagar railway station, towards SSW direction (approx. 99.34 Km*)			
	Dungri Canal 0.76km (S)			
Water body	Saryu River 2.44km (WNW)			
Nearest School/ college	Uttarayan Academy 0.74km (SW)			
9	Government Primary school Falyati 1.42km (SSW)			
	Bumdhar Reserve Forest 6.0km (ESE)			
	Parkot Reserve Forest 5.5km (NW)			
	Anarsa Reserve Forest 4.11km (NNW)			
	Pungar Reserve forest 3.65 km in N			
	Pokhdanda reserve forest 7.99 km in ENE			
	Pandrapali Reserve Forest 3.36 km (WNW)			
	Basibunga Reserve Forest 6.76 km (NE)			
Reserve/ Protected Forest	Gairar Reserve forest 1.79 km in ESE			
	Phalyanti reserve forest 2.36 km in WSW			
	Bilkhet reserve forest 4.15 km in s			
	Chhatena reserve forest 6.05 km in SSW			
	Dhungidhar reserve forest 7.76 km in S			
	Jaulkande reserve forest 7.37 km in SW			
	Sarna reserve forest 9.33 km in SSW			
	Gurana reserve forest 7.76 km in SE			
	Khabdoli South reserve forest 5.39 km in W			
Nearest Hospital	Govt. Hospital Vijaypur Khantoli 11.27 km (ESE)			
T	Harjiyu Mandir chirag 0.70km (NE)			
Temple	Bhumi Devta Temple, Kakarigair 1.46 km towards NNW direction			







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Project Salient features

On-line proposal No.	SIA/UP/MIN/404890/2022					
File No. allotted by SEIAA, UK	EC-01(31)/2023					
Name of Proponent	M/s Jai Shre	M/s Jai Shree Hari Soapstone Chirang				
Full correspondence address of proponent	M/s Jai Shree Hari Soapstone Chirang R/o-Tuper Tok Binsar, Tehsil &Distt- Bageshwar (U.K)					
Name of Project	Tuper Tok H	Binsar Soapstone Minii	ng Project			
Name of Village	Tuper Tok					
Tehsil	Bageshwar					
District	Bageshwar					
Name of Minor Mineral	Soapstone					
Sanctioned Lease Area (in Ha.)	3.594 ha					
Category of the project	"B1"					
Max & Min mRL within lease area	Max- 1235.20mRL & 1149.80 mRL					
I						
Pillar Coordinates (Verified by DMO)	Pillar	Latitude	Longitude			
Pillar Coordinates (Verified by DMO)	Pillar No.	Latitude	Longitude			
Pillar Coordinates (Verified by DMO)		Latitude 29°52'11.82"N	Longitude 79°48'47.23"E			
Pillar Coordinates (Verified by DMO)	No.		_			
Pillar Coordinates (Verified by DMO)	No. 1	29°52'11.82"N	79°48'47.23"E			
Pillar Coordinates (Verified by DMO)	No. 1 2	29°52'11.82"N 29°52'12.59"N	79°48'47.23"E 79°48'41.22"E			
Pillar Coordinates (Verified by DMO)	No. 1 2 3	29°52'11.82"N 29°52'12.59"N 29°52'10.80"N	79°48'47.23"E 79°48'41.22"E 79°48'41.21"E			
Pillar Coordinates (Verified by DMO)	No. 1 2 3 4	29°52'11.82"N 29°52'12.59"N 29°52'10.80"N 29°52'9.25"N	79°48'47.23"E 79°48'41.22"E 79°48'41.21"E 79°48'47.68"E			
Pillar Coordinates (Verified by DMO)	No. 1 2 3 4 5	29°52'11.82"N 29°52'12.59"N 29°52'10.80"N 29°52'9.25"N 29°52'5.66"N	79°48'47.23"E 79°48'41.22"E 79°48'41.21"E 79°48'47.68"E 79°48'46.95"E			
Pillar Coordinates (Verified by DMO)	No. 1 2 3 4 5	29°52'11.82"N 29°52'12.59"N 29°52'10.80"N 29°52'9.25"N 29°52'5.66"N 29°52'4.51"N	79°48'47.23"E 79°48'41.22"E 79°48'41.21"E 79°48'47.68"E 79°48'46.95"E 79°48'48.94"E			







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AREA: 3.394 HA		2005	216 01 IINT	7004015	0.4445
	10	29°3	2'6.01"N	79°48'5	0.44"E
	11	29°5	2'6.78"N	79 °48′5	50.04"E
	12	29°5	2'6.29"N	79°48'4	8.53"E
	13	29°5	2'6.52"N	79°48'4	7.43"E
	14	29°5	2'7.30"N	79°48'4	7.56"E
	15	29°5	2'8.74"N	79°48'4	9.46"E
	16	29°52	2'10.59"N	79°48'4	9.32"E
	17	29°52	2'11.24"N	79°48'5	0.06"E
	18	29°52	2'11.27"N	79°48'5	0.83"E
	20		2'10.12"N	79°48'5	0.61"E
			29°52'9.33"N		3.75"E
	21	29°52	2'10.38"N	79°48'5	4.05"E
	22	29°52	2'13.51"N	79°48'4	8.12"E
Maximum Proposed Production	15,983 ton	nes /annu	m (in Vth yea	ar)	
Sanctioned Period of Mine lease	Maximum	25 years			
Method of Mining	Open Cast	Mechani	zed Method		
No. of working days	240 days				
Working hours/day	8hrs				
No. of workers	31				
Type of Land	Forest	Area	Non Forest	Land	Area
	Land	(Ha)			(Ha)
	Forest	Nil	Waste land		Nil
	(specify	·)	Grazing Lar		2.740
	(Ha)		Agricultural		2.749
			Others (spec Utility land		0.052
			State Govt.	Land	0.793
	Total	Nil			3.594







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Nearest metalled road from site	75 m			
Water Requirement	PURPOSE	REQUIREMENT (KLD)		
	Drinking	0.31		
	Suppression of dust	4.4		
	Plantation	3.60		
	Mobile Toilet	0.31		
	Total	8.62		
Any litigation pending against the project	No			
or land in any court				
Details of Lease Area in approved DSR	Yes, given in the DSR			
Proposed Project cost	Rs 36,00,000 /-			
Proposed EMP budget including the CER	Recurring Cost- 5.00 Lakh			
Cost as per OM dated 30 Sep 2020	Capital Cost (including CER) – 8.40 Lakh			
	CER cost – 1.00 Lakh			
Length and breadth of Haul Road	Length: 440 m, width: 5 m			
No. of Trees to be Planted	1800 plants			

Proposed productions in mining plan period – 05 years

Year	Quantities of soapstone (tonnes)		Total Quantities of soapstone (tonnes)		Waste (Cum)		Total Waste (Cum)	Stripping ratio (T/Cum)	
	Pit-I	Pit-II	Pit-III		Pit-I	Pit-II	Pit- III		
Ist	8209	-	-	8209	10374	-	-	10374	0.79:1
IInd	9859	-	-	9859	5688	-	-	5688	1.73:1
III rd	10454	-	-	10454	8047	-	-	8047	1.30:1
IV th	-	10686	2140	12826	-	10111	2705	12816	1.00:1
V th	-	12283	3700	15983	-	8686	2855	11541	1.38:1
Total	28522	22969	5840	57331	24109	18797	5560	48466	1.18:1







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1.5 BASELINE DATA

This section contains the description of baseline studies of the 10 km radius of the area surrounding Village-Tuper Tok Binsar, Tehsil and District- Bageshwar, Uttarakhand. The data collected has been used to understand the existing environment scenario around the proposed mining project against which the potential impacts of the project can be assessed.

Environmental data has been collected in relation to proposed mining for:-

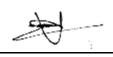
- (a) Air
- (b) Noise
- (c) Water
- (d) Soil
- (e) Ecology and Biodiversity
- (f) Socio-economy

BASELINE ENVIRONMENTAL STATUS

Attribute	Baseline status
Ambient Air Quality	Ambient Air Quality Monitoring (AAQM) has been carried out at five locations during pre-monsoon season from March to May 2023. The minimum and maximum level of PM2.5 recorded within the study area was in the range of 24.33μg/m³ at AQ-6 to 55.9μg/m³ at AQ-4 with the 98th percentile 56.35 μg/m³ at AQ-3. The minimum and maximum level of PM10 recorded within the study area was in the range of 35.5μg/m³ at AQ-1 to 84.6μg/m³ at AQ-8 with the 98th percentile 84.1μg/m³ at AQ-8. The minimum and maximum concentration of SO2 recorded within the study area was in the range of was 2.9μg/m³ at AQ-5 to 18.5μg/m³ at AQ-2 with the 98th percentile 17.53μg/m³ at AQ-2. The minimum and maximum level of NO2 recorded within the study area was in the range of was 4.6μg/m³ at AQ-1 to 23.9μg/m³ at AQ-8 with the 98th percentile 23.6μg/m³ at AQ-8. 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.
Noise Levels	Noise monitoring was carried out at 4 locations. The results of the monitoring program indicated that both the daytime and night time levels of noise were well within the prescribed limits of NAAQS, at all the four locations monitored.







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Water Quality	3 Groundwater samples and 2 surface water samples were analyzed and concluded			
Quality	that:			
	The ground water from all sources remains suitable for drinking purposes as all the			
	constituents are within the limits prescribed by drinking water standards promulgated			
by Indian Standards IS: 10500-2012.				
	From the surface water analysis it is evident that most of the parameters of the			
	samples comply with 'Category C' standards of CPCB Drinking water source with			
	conventional treatment followed by disinfection.			
Soil Quality	Samples collected from identified locations indicate the soil is sandy type and the pH			
	value ranging from 7.5 to 7.81, which shows that the soil is alkaline in nature.			
Ecology and	There are no Ecologically Sensitive Areas present in the study area			
Biodiversity				
Traffic	From the analysis it can be seen that the LOS is not Likely to change near village			
analysis				

1.3 AIR ENVIRONMENT

Proposed Soapstone mine where emissions of Sulphur dioxide (SO₂), Oxides of Nitrogen (NOx) contributed by vehicles movement were considered marginal as branded make and vehicles with PUC certificate will be operated only. Fugitive dust and particulates are major pollutants which will occur in the mining activities. The trucks and tippers are well maintained so that exhaust smoke does not contribute abnormal values of noxious gases and un-burnt hydrocarbons.

Control of Fugitive Emissions

- 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.
- Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.







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Prevention and control of Gaseous Pollution

In mining activities, the sources of gaseous emissions would be through truck movements

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Proper maintenance of vehicles 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.

All the vehicles used will have PUC certificate.

Taxi mode of vehicles carrying mined out material while loading and unloading will not be allowed.

Vehicles carrying mineral will be covered with tarpaulin sheet. This will prevent dust emission.

1.4 WATER ENVIRONMENT

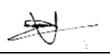
Damage in the water body, depends on its assimilative capacity. Mining of soapstone does not have any significant impact on the water quality and parameters as the mining does not intercept with the ground water level. In this project, it is not proposed to divert or truncate any stream. No proposal is envisaged for pumping of water from the river. There will not be any adverse impact on surface hydrology and ground water regime due to this project. The water collected in the mine during monsoon season will be extracted with the help of pump & will be drained in nearby water body with the help of tankers approach road and area demarcated by gram panchayat. Thus, the project activities shall not have any adverse effect on the physical components of the environment and therefore may not have any effect on the recharge of ground waters or affect the water quality.

(a) Impact on Water Resources& Surface Water Resources:

The topography of the area will not be largely changed in view of the proposed concurrent reclamation. No surface water body exists and passes through the lease area. During the mining activity period, there is a possibility of mixing of freshly disturbed material with the rain water. To take care of such events, retaining walls have been provided along the backfilled pits and along the soil and inter-burden dumps. Before the commencement of rain all the mining pits shall be backfilled so that rain water does not accumulate in the mining pits. Rain water will be







PROJECT: TUPER TOK BINSAR SOAPSTONE MINING PROJECT

PROPONENT: M/S JAI SHREE HARI SOAPSTONE CHIRANG

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channelized along the slopes it shall not carry suspension to natural streams.

1.5 NOISE ENVIRONMENT

Anticipated impacts and evaluation

Noise generated at the mine is due to semi-mechanized mining operations, mechanized loading and truck transportation activities. The noise generated by the mining activity dissipates within the mine. 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 machinery, the impact of noise levels will be minimal.

(a) Noise Abatement and Control

In this mine the noise level will be up to tolerable limit (70 dB (A)) 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 Equipment (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.

1.6 ENVIRONMENTAL MANAGEMENT PLAN (EMP)

Budget allotted for Environmental Management Plan

1 1 -		Capital Cost	Recurring Cost
No.			(Rs.)
Ex	penditure on Environment Protection &	Environment Management	
1.	Haulage Path Repair & Maintenance	Annual	60,000
	Filling, Levelling and widening of the		







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	Total Environment Protection & Management Cost	Rs. 8,40,000	Rs. 5,00,000 (5.00 Lakhs)
	(Construction and maintenance)	(Construction cost)	(waste collection, transportation, fodder for mules)
6.	Biogas Plant	2,00,000/-	50,000
5.	Corporate Social Responsibility	1,00,000	
4.	Environmental Monitoring & Compliances.	Half Yearly Monitoring of Environmental Parameters viz. Air, water, Noise & Soil. Half Yearly Submission of Compliances.	1,00,000
		Plantation @300/sapling (900 sapling annually for 2 years) and post plantation @100/sapling for 3 years	
3.	Plantation & post plantation care	5,40,000	50,000
2.	Water Sprinkling on Haulage Path for Dust Suppression	Assuming Rs.500/day for 240 days of working Tanker Cost: Rs. 500/Tanker Tanker Capacity: 5000 liter, No. of Tankers required: 1	2,40,000
	road up to width of 5m. Setting & Fixing of Cut Stone on the leveled road.	440 m (L) x 5 m (W)=2200m ²	

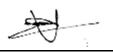
1.7 BENEFIT OF MINING

> PHYSICAL BENIFITS

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,







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PROPONENT: M/S JAI SHREE HARI SOAPSTONE CHIRANG

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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.

> SOCIAL BENEFITS

• 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.

• 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.

ENVIRONMENTAL BENEFITS

> Enhancement Of Green Cover

Plantation/afforestation will be done as per program 1800 plants will be planted along the

approach road and area demarcated by Gram Panchayat/Local Administrative body with

consultation & permission of concerned authority within 5km from lease boundary along with

provision for maintenance for 3 years. Post plantation, the area will be regularly monitored in

every season for evaluation of success rate. For selection of plant species local people will also

be involved. The management will provide free saplings of fruit and other trees, etc. to local

during rain for plantation. This will increase the consciousness in workers and near-by villagers

for greenery. Fruit trees can contribute towards their financial gains.







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1.8 CORPORATE SOCIAL RESPONSIBILITY

Budget allotted for Corporate Environmental Responsibility

S no.	Activity	Quantification	Capital cost
1	Installation of Solar street lights	2	1,00,000
Total			1,00,000

1.9 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
- 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.





