

State Level Expert Appraisal Committee, Uttarakhand
"Gauradevi Paryavaran Bhawan, 3rd Floor,
46-B, I.T. Park, Sahasradhara Road, Dehradun"

Letter No: 15 / SEAC
Dated: 22, March, 2023

The Second Day of the 5th meeting of the Uttarakhand State Level Expert Appraisal Committee (SEAC) was held on 22nd March, 2023 at the SEIAA/SEAC office Dehradun. The following were present at the meeting –

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|-------------------------------|----------------------|
| 1) Shri Shailendra Singh Bist | Chairman |
| 2) Dr. Ashwani Kumar Minocha | Member |
| 3) Dr. Ashutosh Gautam | Member (Online Mode) |
| 4) Dr. Basudev Prasad Purohit | Member |
| 5) Shri Nitish Mani Tripathi | Secretary |

The meeting was presided by Shri S.S. Bist. The meeting proceeded as per the agenda with permission of the chair. It was noted that proposals, for the meeting, being considered for the appraisal includes Construction, Industrial, Mining (R.B.M/Soapstone), Common Municipal Solid Waste Management Facility (CMSWMF) etc. The concerned recognized environment consultants of the proponents made the presentations.

Consideration/Reconsideration of Proposals For Environmental Clearance (E.C.)

Proposal – 1

Online proposal No.	SIA/UK/INFRA2/403627/2022
Name of the Project	Proposed establishment of 200 TPH Stone Crusher Plant along with 900 KVA DG set at Khasra no- 273, 275, 276, 280 Village- Dhakrani, Pargana- Pachhuwadun, Tehsil- Vikasnagar, District- Dehradun.
Name & Address of Proponent	M/s Satyam Shivam Sundram Stone Crusher-II by Shri Raipal Singh Bisht (Partner)
Whether New/Expansion/Modernization Project	New
Total Plot Area	1.0258 Ha.
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/403627/2022 on dated 28th January, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed establishment of 200 TPH Stone Crusher Plant along with 900 KVA DG set. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator. The details of the project are given below:-

S.No	Parameters	Description
1.	Products and quantity	200 TPH
2.	Estimated Project Cost	1.5 Crore
3.	Total Plot Area	1.0258 Hectare
4.	Proposed Green Area	0.102 Hectare
5.	Fresh Water Consumption	6.64 KLD
6.	Fresh Water Source	Borewell
7.	Power Demand	400 KVA
8.	Power back up	DG set of 500 KVA
9.	Wastewater Management	77 KLD will be recycled
10.	Steam and heating system	NA
11.	Fuel Consumption	NA

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Land use details:NA

S.No	Parameters	Description
1.	Ground Coverage	NA
2.	Road and Paved area	NA
3.	Parking area	NA
4.	Green Area	NA
5.	Switchyard [OTS]	NA
6.	Future Expansion Area	NA
	Total Plot Area	1.0258 Hectare

Raw material details: NA

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	NA	---	---	---
2.	NA	---	---	---
3.	NA	---	---	---

Domestic Water Demand and Effluent Generation:NA

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	NA	NA	NA	NA
2	Flushing water	NA	---	---	---
3	Canteen Facility	NA	---	---	---
4	Housekeeping	NA	---	---	---
5	Gardening	NA	---	---	---
	Total	NA	---	---	---

Water Balance Table

Requirement For	Input	Losses	Waste water Generation	Losses after Treatment	Recycled/Reuse
Crushing Process	80.0	2.00	78.0	1.00	77.0 (75.0 KLD Recycle to Process & 2.0 KLD reuse in greenbelt)
Domestic	0.24	0.04	0.20	0.00	
Dust Suppression	2.60	2.60	0.00	0.00	
Greenbelt	2.00	2.00	0.00	0.00	
Total	84.84	6.64	78.20	1.00	77.0

Industrial Water Demand and Effluent Generation:NA

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process - Boiler Chiller	-	-
2	Cooling Tower make up	-	-
3	Laboratory	-	-
4	APC devices [Fume scrubber]	-	-
5	Rejects from Water Treatment	-	-
	Total	-	-

Solid waste details:NA

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Process waste [Category 21.1]	---	---
2	Spent solvent distillation residue [Cat 20.3]	---	---
3	ETP sludge [Category 35.3]	---	---
4	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 33.1]	---	---
5	Used Oil [Category 5.1]	---	---

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Hazardous waste Generation & Its Management

S.No.	Source	Quantity of hazardous waste generated	Category according to Schedule I of hazardous waste	Treatment/ Disposal
1.	Used Spent Oil	0.5 MTPA	5.1	Will be handed over to authorized recyclers/re-processors
2.	Discarded Drums /Barrels	10 Nos./Annum	33.1	Will be handed over to authorized recyclers/re-processors

Solid Waste Generation & Its Management

Assuming per capita solid waste generation rate as 0.2 kg/capita/day	
Quantity of solid waste generated	3.2 kg/day
Organic solid waste : 60 % of the total waste	1.92 kg/day
Inorganic solid waste : 40 % of the total waste	1.28 kg/day
Disposal of domestic solid waste	Domestic wastes are segregated at source, collected in bins and disposed of as per UKPCB Norms

The Committee after examining the original proposal and after going through the presentation done by the consultant has made the following observations-

- The Project proponent has informed in his presentation that the actual distance of the project site from the bank of perennial river is 550 meters as per the Joint Inspection Report. Moreover the Project proponent has submitted an undertaking that no non-perennial river lies in the radius of 500 meters. Thus the project fulfills the criteria of distance from river bank as per extant rules.
- Govt. of Uttarakhand has issued Letter of Intent in favour of this project vide its letter No-505 dated- 21.02.2023
- The Project proponent has assured that he will use new and most advanced machineries which are efficient to minimize air and noise pollution.
- The Project proponent has assured that they will ensure 3 layered plantation on the periphery of the premises.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- The unit should properly provide covered processing area for control of fugitive emission.
- The unit should provide ducting and scrubbing system in cover shed to arrest dust as per State Policy, 2021.
- The unit should provide pucca drain for wastewater conveyance to settling tank.
- The unit shall provide proper overflow system in settling tank.
- The unit should provide proper water sprinklers with sufficient pressure as per State Policy, 2021.
- The unit should install interlock system for air pollution control device and process.
- The unit should expedite to construct brick wall of sufficient height. The unit should provide adequate green belt as per State Policy 2021. Till the adequate growth of plants, the unit may provide other alternative arrangement for fugitive emission control.
- The unit should provide complete metaled road as per State Policy, 2021.
- The unit should maintain proper log book of fresh water consumption.
- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit fortnightly reports pertaining to ambient air quality, and quarterly report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it. The reports pertaining to ambient air quality shall be submitted before 10th day of every month and the reports pertaining to ground water quality and noise shall be submitted before 10th day of every fourth month to SEIAA.
- The Project proponent will install advanced dust suppression system at the project site.

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- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- Barricading (boundary) of at least 20 feet height around the project site shall be constructed by the project proponent.
- The Proponent shall ensure installation of water sprinklers within the premises to prevent dust hazards.
- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- All the vehicles being used for transportation from the Stone Crusher Plant should have a valid pollution under control certificate.
- The Project proponent shall submit dust emission dispersion modeling to SEIAA on yearly basis from Government recognized institution/NABET approved consultant.
- The project proponent shall ensure maintenance of the approach road.
- The project proponent is allowed to run the plant only during day time. The plant running hour shall not be more than 10 hours in a day.
- The Project Proponent shall obtain CTE/CTO from UKPCB prior to operation of the plant.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The Project Proponent shall follow guidelines issued for Stone Crusher Plant by MoEF&CC, CPCB and UKPCB as amended from time to time.
- The Project Proponent shall follow directions/orders issued by Hon'ble High Court/NGT/ Supreme Court with respect to establishment of Stone Crusher Plant or on issues pertaining to pollution by Stone Crusher Plant.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

Based on above observations and subject to conditions (**Annexure-1**), the committee recommended the above project for grant of Environmental Clearance

Proposal – 2

Online proposal No.	SIA/UK/INFRA2/414213/2023
Name of the Project	Proposed establishment of 70 TPH Screening Plant along with 250 KVA DG set at Khasra no- 223, 218, 222, 219/2, 222 Me Village-Fatehpur Tanda, Tehsil- Doiwala, District- Dehradun.
Name & Address of Proponent	M/s Doon Mines & Minerals by Shri Rajat Pokhriyal(Partner)
Whether New/Expansion/Modernization Project	New
Total Plot Area	1.032.00 Ha
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/414213/2023 on dated 11th January, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed establishment of 70 TPH Screening Plant along with 250 KVA DG set. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator.** The details of the project are given below:-

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S.No	Parameters	Description
1.	Products and quantity	70TPH
2.	Estimated Project Cost	1.0 Crore
3.	Total Plot Area	1.032Hectare
4.	Proposed Green Area	100 Trees Every Year
5.	Fresh Water Consumption	Screening Process: - 35.0 KLD, Domestic: - 0.25 KLD Dust Suppression: - 2.70 KLD, Greenbelt: - 2.00 KLD Total water requirement: - 5.75 KLD
6.	Fresh Water Source	Bore well
7.	Power Demand	200KVA
8.	Power back up	150 KVA DG Set
9.	Wastewater Management	33KLD water shall be recycled
10.	Steam and heating system	NA
11.	Fuel Consumption	NA

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	1.032 Hectare
2.	Road and Paved area	NA
3.	Parking area	NA
4.	Green Area	100 Trees Every Year
5.	Switchyard [OTS]	NA
6.	Future Expansion Area	NA
	Total Plot Area	1.032 Hectare

Raw material details:

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	RBM	21000	River material	Truck
2.	-	-	-	-

Domestic Water Demand and Effluent Generation:NA

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]				
2	Flushing water				
3	Canteen Facility	NA	---	---	---
4	Housekeeping	NA	---	---	---
5	Gardening	NA	---	---	---
	Total	NA	---	---	---

Water Balance Table

Requirement for	Input	Losses	Waste water generation	Losses after treatment	Recycled/ Reuse
Screening Process	35.00	1.0	34.0	1.00	33.0 (31.0 KLD Recycle to process & 2.0 KLD reuse in greenbelt)
Domestic	0.25	0.05	0.20	0.00	
Dust Suppression	2.70	2.70	0.00	0.00	
Greenbelt	2.00	2.00	0.00	0.00	
Total	39.95	5.75	34.20	1.00	33.0

Industrial Water Demand and Effluent Generation: NA

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process - Boiler Chiller	--	--
2	Cooling Tower make up	--	--
3	Laboratory	--	--
4	APC devices [Fume scrubber]	--	--

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5	Rejects from Water Treatment	--	--
	Total	--	--

Solid waste details: NA

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Process waste [Category 21.1]	--	--
2	Spent solvent distillation residue [Cat 20.3]	--	--
3	ETP sludge [Category 35.3]	--	--
4	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 33.1]	--	--
5	Used Oil [Category 5.1]	---	--

Hazardous Waste

S. No.	Source	Quantity of hazardous waste generated	Category according to Schedule I of hazardous waste	Treatment/ Disposal
1.	Used Spent Oil	0.1 MTPA	5.1	Will be handed over to authorized recyclers/re-processors
2.	Discarded Drums /Barrels	10 Nos./Annum	33.1	Will be handed over to authorized recyclers/re-processors

Solid Waste Generation and Its Management

Assuming per capita solid waste generation rate as 0.2 kg/capita/day

Quantity of solid waste generated	2.00 kg/day
Organic solid waste : 60 % of the total waste	1.20 kg/day
Inorganic solid waste : 40 % of the total waste	0.80 kg/day
Disposal of domestic solid waste	Domestic wastes are segregated at source, collected in bins and disposed of as per UKPCB Norms

The Committee after examining the original proposal and after going through the presentation done by the consultant has made the following observations-

- The Project proponent has informed in his presentation that the actual distance of the project site from the bank of perennial as well as non-perennial river is 500 meters as per the Joint Inspection Report. Thus the project fulfills the criteria of distance from river bank as per extant rules.
- Govt. of Uttarakhand has issued Letter of Intent in favour of this project vide its letter No-2401 dated- 19.12.2018. Since the LoI issued by the Govt. of Uttarakhand will expire on 19.12.2023 hence, the project proponent shall obtain renewal of LoI before the due date.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- The unit should properly provide covered processing area for control of fugitive emission.
- The unit should provide ducting and scrubbing system in cover shed to arrest dust as per State Policy, 2021.
- The unit should provide pucca drain for wastewater conveyance to settling tank.
- The unit shall provide proper overflow system in settling tank.
- The unit should provide proper water sprinklers with sufficient pressure as per State Policy, 2021.
- The unit should install interlock system for air pollution control device and process.
- The unit should expedite to construct brick wall of sufficient height. The unit should provide adequate green belt as per State Policy 2021. Till the adequate growth of plants, the unit may provide other alternative arrangement for fugitive emission control.
- The unit should provide complete metaled road as per State Policy, 2021.
- The unit should maintain proper log book of fresh water consumption.
- Project Proponent shall install solar lights on the periphery of its premises

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- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit fortnightly reports pertaining to ambient air quality, and quarterly report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it. The reports pertaining to ambient air quality shall be submitted before 10th day of every month and the reports pertaining to ground water quality and noise shall be submitted before 10th day of every fourth month to SEIAA.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- Barricading (boundary) of at least 20 feet height around the project site shall be constructed by the project proponent.
- The Proponent shall ensure installation of water sprinklers within the premises to prevent dust hazards.
- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- All the vehicles being used for transportation from the screening plant should have a valid pollution under control certificate.
- The Project proponent shall submit dust emission dispersion modeling to SEIAA on yearly basis from Government recognized institution/NABET approved consultant.
- The project proponent shall ensure maintenance of the approach road.
- The project proponent is allowed to run the plant only during day time. The plant running hour shall not be more than 10 hours in a day.
- The Project Proponent shall obtain CTE/CTO from UKPCB prior to operation of the plant.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The Project Proponent shall follow guidelines issued for screening plant by MoEF&CC, CPCB and UKPCB as amended from time to time.
- The Project Proponent shall follow directions/orders issued by Hon'ble High Court/NGT/Supreme Court with respect to establishment of screening plant or on issues pertaining to pollution by screening plant.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

Based on above observations and subject to conditions (**Annexure-1**), the committee recommended the above project for grant of Environmental Clearance

Proposal - 3

Online proposal No.	SIA/UK/MIN/413529/2023
Site Details	Proposed Extraction of Soapstoneat Village- Nakhnauli, Tehsil- Dewalthal, District- Pithoragarh.
Name & Address of Proponent	M/s Maa Bhagwati by Shri Jagat Singh (Owner).
Coordinates	Latitude- 29°41'40.18"N to 29°41'40.71"N Longitude- 80°11'37.47"E to 80°11'37.10"E
Mining Lease Area	4.994 Ha.
Category	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/MIN/413529/2023 on dated 7th January, 2023 by the project proponent. The committee observed that proponents seek Environmental

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Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator. The details of the project are given below:-

S.No	Parameters	Description
1.	Name of the Project Proponent	M/s Maa Bhagwati
2.	Registered Address	Village- Nakhnauli, Post Office-Bungachhina, Tehsil-Dewalthal, District- Pithoragarh
3.	Full correspondence address of proponent and mobile no.	M/sMaa Bhagwati, Village- Nakhnauli, Post Office-Bungachhina, Tehsil- Dewalthal, District- Pithoragarh, Mobile no. 9758216629
4.	Name of Project	Nakhnauli Soapstone Mining Project
5.	Project Location (Plot/Khasra/Gata No.)	24 Khata nos.
6.	Name of Village	Nakhnauli
7.	Tehsil	Dewalthal
8.	District	Pithoragarh
9.	State	Uttarakhand
10.	Name of Minor Mineral	Soapstone
11.	Sanctioned Lease Area (in Ha.)	4.994 Hectare
12.	Max. & Min mRL within lease area	1602.26m to 1515.31m
13.	Pillar Coordinates (Verified by DMO)	15 nos. of Pillar Coordinates 29°41'40.18"N to 29°41'40.71"N 80°11'37.47"E to 80°11'37.10"E
14.	Letter of Intent	1895/VII-A-1/2021-01(45)/2021, dated 07/01/2022
	Mine Plan approval details	संख्या:3709/ मुख०/17/ पिथो० / खनन / भूखनि०ई० / 2021-22, दिनांकित20/12/2022
15.	Validity of Mine Plan	For First 5 Years
16.	Total geological Reserves	609020.76 Tonnes
17.	Total mineable reserves	1,22,672 Tonnes
18.	Total Proposed Production (In 5 Years)	1,22,672 Tonnes
19.	Total Proposed Production/Year	I st Year- 15,692 Tonnes II nd Year- 20,551 Tonnes III rd Year – 24,928 Tonnes IV th Year – 29,290 Tonnes V th Year – 32,211 Tonnes
20.	Sanctioned Period of Mine lease	Twenty-Five (25) Years
21.	Method of Mining	Manual Method
22.	No. of working days	270
23.	Working hours/day	10hr/day
24.	No. of workers	47
25.	Type of Land	Agriculture private land
26.	Ultimate Depth of Mining	15m
27.	Water Requirement	4.0KLD
28.	Any litigation pending against the project or land in any court	None
29.	Ecological Sensitive Map/zone	Askot Musk deer wildlife Sanctuary is more than 10kms away from the project site
30.	Details of 500 m Cluster certificate & Map Verified by Mining Officer	None other lease exists within 500m of proposed project (DMO Certificate attached)
31.	Proposed CER cost	Rs. 70,000/Year
32.	Proposed EMP cost	Rs. 5,25,000/Year
33.	No. of Trees to be Planted.	5000 trees in a gap of every 5 years (within a gap period protection of planted trees proposed)
34.	Detail of CTE/CTO issued by UPPCB	Yet to be granted

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The Committee after examining the original proposal and after going through the presentation done by the consultant has made the following observations-

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 5000 plants will be planted in first two years followed by maintainance in the next three years. **In case of Plantation outside of the buffer zone/project site MoU with local Gram Panchayat/Van Panchayat should be done.**
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The mining operation would provide local employment and bring economic benefit to local population.
- The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.

Based on above observations and subject to conditions (**Annexure-2**), the committee recommended the above project for grant of Environmental Clearance

Proposal – 4

Online proposal No.	SIA/UK/MIS/272966/2022
Name of the Project	Proposed Hotel Project at 189/2, Rajpur Road, Dehradun.
Name & Address of Proponent	M/s The Maitreya by Shri Tanishk Garg (Partner)
Whether New/Expansion Project	New
Total Plot Area	1070.20 m ²
Total Covered Area	1810.86 m ²
Project Category	"B" & 8(a) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/MIS/272966/2022 on dated 14th May, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Hotel Project. The above proponent has submitted detailed project related information in Form - 1, Form – 1A, Conceptual Plan, EMP, Sanction Letter from MDDA, CTE issued by UKPCB& Land Documents. **Project was prepared by Accredited consultancy firm Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator.** The details of the project are given below:-

S.No	Parameters	Description
1.	Plot Area	1070.20 sq m
2.	Proposed Built Up Area	3302.30 sq m
3.	Production capacity	Proposed Guest Rooms - 72 Proposed Kitchen - 01 Proposed Restaurant/ Banquet Hall – 01 Proposed Gym - 01 Proposed Bar - 01
4.	Total EWS Unit	NA
5.	Max Height of Building (Upto Terrace)	18.6 m from Ground floorto Terrace
6.	Max No of Floors	(G+4 floors)
7.	Cost of Project	2200 lakhs
8.	Staff Manpower	40
9.	Proposed Ground Coverage Area	444.06 sq m.
10.	Proposed FAR Area	1810.86 sq m.
11.	Total Water Requirement	37.97 KLD
12.	Fresh water requirement	23.78 KLD
13.	Waste water Generation	30.376 KLD
14.	Proposed STP Capacity	30 KLD
15.	No. of RWH of Pits Proposed	4
16.	Total Proposed Parking	61.38 ECS

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17.	Proposed Green Area (15.14% of Plot Area)	165 Sq m
18.	Municipal Solid Waste Generation	157.5 kg/day
19.	Total Power Requirement	450 KVA
20.	DG set backup	500 KVA

Salient features details:

S.No	Parameters	Description
GENERAL		
1.	Plot Area	1070.20 sq m
2.	Proposed Built Up Area	3302.30 sq m
3.	Number of Building Blocks	1 BLOCK(G+ 4 floors)
4.	Total no of Saleable DU's	Not applicable
5.	Max Height of Building (Upto Terrace)	-
6.	Max No of Floors	(G+4 floors)
7.	Cost of Project	2200 lakhs
8.	Staff Manpower	40
9.	Permissible Ground Coverage Area (@40%)	428.08
10.	Proposed Ground Coverage Area (18.46)	444.06 sq m.
11.	Permissible FAR Area (@400)	4280.8 sq m.
12.	Proposed FAR Area	1810.86 sq m.
13.	Proposed No. N FAR Area	-
14.	Proposed Built Up Area	3302.30 sq m
WATER		
15.	Total Water Requirement	37.97 KLD
16.	Fresh water requirement	23.78 KLD, by Uttarakhand Peyjal Nigam Supply
17.	Waste water Generation	28.47 KLD
18.	Proposed STP Capacity	30 KLD
19.	Treated Water Available for Reuse	22.78 KLD
20.	Recycled Water	14.15 KLD
21.	Surplus Treated water	8.63 KLD
RAIN WATER HARVESTING		
22.	Rain Water Harvesting Potential	40 KL
23.	No of RWH of Pits Proposed	4
PARKING		
24.	Total Parking Required as per building Bye Laws	44.88 ECS
25.	Total Proposed Parking	61.38 ECS
26.	Proposed Surface Parking	-
27.	Proposed Stilt/Podium Parking	-
28.	Proposed Basements Parking	61.38 ECS
GREEN AREAS		
29.	Required Green Area	161 sq m.
30.	Proposed Green Area (15.14% of Plot Area) (360 numbers of tree proposed to planted)	165 sq. m.
WASTE GENERATION		
31.	Municipal Solid Waste Generation	157.5 kg/day
32.	Bio Degradable waste	94.5 kg/day
33.	Quantity of Sludge Generated from STP	13.15 kg/day
POWER		
34.	Total Power Requirement	450 KVA
35.	DG set backup	500 KVA

Land use details:

S.No	Parameters	Description
1.	Ground Coverage Area	444.06 sq m.
2.	Green Area	165 sq m.
3.	Road/Paved Parking Area	483.37 sq m.
4.	Other Open Area	550 sq m.
5.	Total Plot Area	1070.20 sq m.

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The Committee examined the revised proposal and presentation made by the consultant wherein he informed that they have made violation by doing some construction work.

- The Project proponent has submitted approval of project map from MDDA. In case of any change in the proposed layout plan of the Hotel drawing the Project Proponent shall inform the SEIAA and shall seek modified Environmental Clearance.
- The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- Construction site shall be adequately barricaded before the construction begins dust smoke and other air pollution measures shall be provided for the building as well as the site, these measures shall include screens for the building under construction continuous dust/wind breaking walls around the site (at least 3 meters high).
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- The structural design and other aspects of the building shall comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies
- The building plan and structural design shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- Notification GSR 94(E) dated 25-10-2018 of MOEF&CC regarding mandatory implementation of Dust Mitigation Measures for construction and Demolition activity for projects requiring Environmental Clearance shall be complied with.
- The disposal of muck should adhere to standards of general safety and health concerns of local people and also it should have no adverse effect on the neighbouring community.
- DG Sets shall be used only as backup power. The capacity of DG sets shall not exceed capacity of 1 DG Set 500 KVA and it should have stack height complying with CPCB norms.
- Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices/sensor based control. Dual plumbing system shall be installed separately for fresh water and waste water.
- The use of glass may be reduced by upto 40 percent to reduce the electricity consumption and load on air conditioning. If necessary then use of high quality double glass may be encouraged with special reflective coating in windows.
- The use of LED and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 40 percent of the total power requirement after completion of construction unit shall be met from solar energy.
- Rainwater harvesting for roof top and surface run off should be ensured as per the plan submitted. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles. The bore well for rain water recharging should be kept at 5 metres above the highest ground water table.
- One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material has to be used during plantation as per standards of State Forest Department.
- Acoustic enclosures shall be provided with all construction machineries and DG sets on site complying with Noise Levels of CPCB standards. The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UKPCB.
- The construction debris may be used for land fill or disposed through authorized vendors. The Hazardous substances generated during construction activity shall be disposed off as required by Hazardous Waste (Management, Handling) Rules, 1989 (as amended from time to time). Efforts shall be maximized for use of low toxicity substitutes and low VOC materials.
- The vehicles used at the construction site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.
- Adequate drinking water and sanitation facility has to be provided on site for the workforce. Provision should be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.

The bottom of the page features several handwritten signatures and initials in blue ink. From left to right, there is a signature that appears to be 'Munoo', a large diagonal slash, another signature, and a final signature on the right. A small number '11' is written near the bottom right corner.

- The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- The entire site after construction activities should carry signages of garbage collection points, environment awareness etc.
- The proponent shall ensure safety measures against river meandering. It shall also undertake river meandering study in the locality and then construct suitable protective structures for river training
- Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- All workers working at the construction site and involved in loading, unloading carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- A first aid room shall be provided in the project both during construction and operations of the project.
- The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent the record shall be submitted to the Regional office, MoEF&CC, 25 Subhash Road, Dehradun and SEIAA Uttarakhand along with six monthly monitoring reports.
- On site treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert a report in this regard shall.
- A STP of capacity 30 KLD shall be installed for treating waste water upto tertiary level. Sewage Treatment Plant shall be complying with parameters of CPCB/ UKPCB guidelines. Treated water should be used for flushing, green belt development, road washing, DG cooling and other miscellaneous purposes.
- The excess treated waste water may be transported through tankers to adjoining construction sites or industrial areas as the demand arises.
- The installation of sewage treatment plant should be certified by an independent expert and a report in this regard should be submitted to the UKPCB. Necessary measures should be made to mitigate the odour problem from STP.
- Guidelines of Municipal Solid Waste (Management & Handling) Rules, 2000 (as amended from time to time) should be followed for disposal of solid waste. Two bin collection system for bio degradable and nonbio degradable waste should be adopted. Bio degradable waste shall be sent to composting pit and non biodegradable/inert waste disposed off through authorized recyclers. STP sludge shall be dried and used as organic manure.
- DG sets shall be used only in emergency purpose. The use of solar energy and inverter shall be ensured and maximized as backup power.
- Adequate parking space shall be develop for staff and guests.
- Proper restroom and toilets shall be provided for service workers, drivers & accompanying staff, if any
- All directions of Fire Department shall be complied.
- Provisions shall be made for the integration of Solar Power System.
- The project proponent shall submit half yearly compliance report of stipulated conditions of Environment Clearance in soft copy through PARIVESH PORTAL given link: <https://parivesh.nic.in>. Yearly monitoring of ground water table and quality should be carried out and should be submitted to SEIAA and UKPCB, Uttarakhand.
- No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)
- The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, Hazardous and other Wastes (Management and Tranboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
- Project Proponent will operate on the principle of zero liquid discharge.
- Project Proponent will submit water balance chart especially in relation to maintaining zero liquid discharge.
- Project Proponent will adopt the green building concept.

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- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- Under CER, Project Proponent apart from other activities, will also install Solar lights and distribute forest fire fighting equipments to the local groups (Mahila mangal dal/ Yuvak mangal dal/ Vanpanchayat) in the adjoining villages close to forest areas in consultation with local Forest Officials. The project proponent will also strengthen the nearest government primary school in terms of infrastructure and other desired facilities.
- The proponent submitted details of the cost incurred on the project so far to be Rs 7,50,000.00 (Seven Lakh Fifty Thousand only).
- Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date, thus the total amount of the penalty is calculated to be Rs 3,750.00 (Three Thousand Seven Hundred Fifty Only). This non-refundable amount has been deposited by the project proponent vide DD No- 389197 dated- 13.02.2023 of Bank of Maharashtra in the account of State Pollution Control Board.
- The Project Proponent has also submitted the budgetary allocation pertaining to remediation plan and natural and community resource augmentation plan which is as follows-

S.No.	Description	Amount(Rs.)
1	Cost estimate for natural resource augmentation plan	1,10,000/-
2	Community resource augmentation plan	25,000/-
	Total (Rs.)	1,35,000/-

The Project Proponent has submitted an undertaking dated-22.03.2023 that they will deposit the bank guarantee equivalent to the above amount with the State Pollution Control Board before the next meeting of SEIAA. This bank guarantee will be refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan.

Based on above observations and subject to conditions (**Annexure-3**), the committee recommended the above project for grant of Environmental Clearance.

Proposal – 5

Online proposal No.	SIA/UK/MIS/284967/2022
Name of the Project	Proposed Construction of Hotel at Hollow Oak Estate, (Dick Road), Company Garden – Hathipaon Road, Mussoorie, Dehradun
Name & Address of Proponent	M/s Regency Holidayz Private Limited by Shri Prateek Karanwal (Owner)
Whether New/Expansion Project	New
Total Plot Area	3518.651m ²
Total Covered Area	5028.70 m ²
Project Category	8(a) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/MIS/284967/2022 on dated 23rd July, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Construction of Hotel. The proponent has submitted detailed project related information in Form 1, Form 1-A, Conceptual Plan, Land Ownership Documents. **Project was prepared by Accredited consultancy firm Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator.** The details of the project are given below:-

S.No	Parameters	Description
21.	Plot Area	3518.65 sq m
22.	Proposed Built Up Area	5028.70 sq m
23.	Production capacity	Proposed Guest Rooms with toilets – 75 Nos. Proposed Kitchen – 02 Nos. Proposed Restaurant – 02 Nos. Proposed Club House & Banquet Hall – 01 No. Proposed SPA & Wellness Centre – 01 No. Proposed Gym – 01 No.

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		Proposed Bar – 01 No. Proposed Cottages – 5 Nos. Proposed Swimming Pool – 2 Nos.
24.	Total EWS Unit	NA
25.	Max Height of Building (Upto Terrace)	10 meter
26.	Max No of Floors	(G+2 floors)
27.	Cost of Project	2829 lakhs
28.	Staff Manpower	60
29.	Proposed Ground Coverage Area	649.83 Sq m.
30.	Proposed FAR Area	-
31.	Total Water Requirement	48.015 KLD
32.	Fresh water requirement	33.41 KLD
33.	Waste water Generation	38.41 KLD
34.	Proposed STP Capacity	40 KLD
35.	No of RWH of Pits Proposed	06 no's
36.	Total Proposed Parking	41.45 ECS
37.	Proposed Green Area (15.14% of Plot Area)	530Sq m
38.	Municipal Solid Waste Generation	168 kg/day
39.	Total Power Requirement	400 KVA
40.	DG set backup	3 no's(200×1 KVA and 83×2 KVA)

Salient features details:

S.No	Parameters	Description
GENERAL		
36.	Plot Area	3518.65 Sq m
37.	Proposed Built Up Area	5028.70 Sq m
38.	Number of Building Blocks	5BLOCKS(G+2 floors)
39.	Total no of Saleable DU's	Not Applicable
40.	Max Height of Building (Upto Terrace)	10
41.	Max No of Floors	G+2 floors
42.	Cost of Project	2829 lakhs
43.	Expected Population	NA
44.	Permissible Ground Coverage Area (@40%)	1407.46 Sq m
45.	Proposed Ground Coverage Area (18.46)	649.83 Sq m.
46.	Permissible FAR Area (@400)	-
47.	Proposed FAR Area	0.561 & 1.21
48.	Proposed NoN FAR Area	-
49.	Proposed Built Up Area	5028.70 Sq m
WATER		
50.	Total Water Requirement	48.015 KLD
51.	Fresh water requirement	33.41 KLD
52.	Waste water Generation	38.41 KLD
53.	Proposed STP Capacity	40 KLD
54.	Treated Water Available for Reuse	30.728 KLD
55.	Recycled Water	17.705 KLD
56.	Surplus Treated water	13.023 KLD
RAIN WATER HARVESTING		
57.	Rain Water Harvesting Potential	112 KL
58.	No of RWH of Pits Proposed	06 no's
PARKING		
59.	Total Parking Required as per building Bye Laws	41.45 ECS
60.	Total Proposed Parking	41.45 ECS
61.	Proposed Surface Parking	953.58 Sq m
62.	Proposed Stilt/Podium Parking	-
63.	Proposed Basements Parking	953.58 Sq m
GREEN AREAS		
64.	Required Green Area	527Sq m.
65.	Proposed Green Area (15.14% of Plot Area)	530Sq. m.

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	(360 numbers of tree proposed to planted)	
WASTE GENERATION		
66.	Municipal Solid Waste Generation	168 kg/day
67.	Bio Degradable waste	100.8 kg/day
68.	Quantity of Sludge Generated from STP	67.2 kg/day
POWER		
69.	Total Power Requirement	400 KVA
70.	DG set backup	3 no's(200×1 KVA and 83×2 KVA)

Land use details:

S.No	Parameters	Description
6.	Ground Coverage Area	649.83 Sq m.
7.	Green Area	530 Sq m.
8.	Road/Paved Parking Area	39.88 Sq m.
9.	Other Open Area	-
10.	Total Plot Area	3518.65 Sq m.

In the 3rd meeting of SEIAA dated-21.02.2023 the above proposal was referred back to SEAC with the remark "Whether 35.73 KLD fresh water can be generated by bore well in that area and how this will affect the present supply of fresh water in that area. SEAC should also appraise whether project proponent need to get prior approval of Central Ground Water (CGWA) before E.C".

In today's meeting the project proponent informed that he will not use ground water hence, the approval of Central Ground Water Authority (CGWA) is not desirable. The project proponent informed that they will get water from Jal Sansthan, Mussoorie. Hence the committee directed the project proponent to submit a letter from some competent authority of Jal Sansthan, Mussoorie assuring the supply of desired quantity of water for the proposed Hotel.

Based on the above discussion the committee decided to defer the proposal till the project proponent submits the above mentioned documents.

Consideration/Reconsideration of Proposals For Terms of Reference (ToR)

Proposal – 1

Online proposal No.	SIA/UK/INFRA2/408022/2022
Name of the Project	Proposed Integrated Municipal Solid Waste Management Facility at Khasra No- 3660, 3661, 3697 & 3698 Vill- Khandakhal, Tehsil & Dist- Tehri Garhwal.
Name & Address of Proponent	M/s Nagar Palika Parishad, Tehri Garhwal.
Whether New/Expansion Project	New
Total Plot Area	32550 m ²
Project Category	7(i)& activity "B1" enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/408022/2022 on dated 28th November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Municipal Solid Waste Management Facility in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 7(i). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP.

Since the ToR has already been granted by SEAC vide letter no- 228/SEAC dated-15.07.2021 therefore the application for ToR is rejected and the proponent should apply for E.C on the basis of existing ToR.

Proposal – 2

Online proposal No.	SIA/UK/MIN/420868/2023
Site Details	Proposed Extraction of Soapstone at Village – Kuroli, Gair Saneti, Thadaijere, Tehsil - Dunakuri, Dist.- Bageshwar.
Name & Address of Proponent	M/s Uttarakhand Talc Pvt. Ltd. Village - Haripur Motia, Post Office - Devalchour, Rampur Road, Haldwani, Dist- Nainital.
Coordinates	Latitude- 29°54'4.89"N to 29°54'3.42"N Longitude- 79°58'11.64"E to 79°58'3.78"E
Mining Lease Area	4.449 Ha.

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Category	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006. But as per notification O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018, the project has been screened in to category B1 (cluster formation of >5 Ha with in 500 meter periphery of concerned mine).
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The project was submitted vide proposal no SIA/UK/MIN/420868/2023 on dated 3rd March, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator.**

Hence, committee agreed to recommend **ToR (Annexure-4)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.

Proposal – 3

Online proposal No.	SIA/UK/MIN/420848/2023
Site Details	Proposed Extraction of Soapstone at Village- Bataigaon, Tehsil- Kapkot, District- Bageshwar.
Name & Address of Proponent	Shri Vikram Singh Shahi S/o Shri Bhawaan Singh Shahi, Village & Post- Ason, Tehsil-Kapkot, Distt- Bageshwar
Coordinates	Latitude- 29°53' 42.51"N to 29°53'45.57"N Longitude- 79°52'46.19"E to 79°52'35.82"E
Mining Lease Area	30.566 Ha.
Category	B1 & 1(a) enlisted in project /activity as per EIA Notification, 2006.

The project was submitted vide proposal no SIA/UK/MIN/420848/2023 on dated 3rd March, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator.**

Hence, committee agreed to recommend **ToR (Annexure-4)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.

Proposal – 4

Online proposal No.	SIA/UK/MIN/407718/2022
Site Details	Proposed Extraction of Soapstone at Village- Amjhajoo, Tehsil- Dugnakuri, District- Bageshwar.
Name & Address of Proponent	Shri Shankar Singh Bafila S/o Shri Jagat Singh Bafila, Village – Bafila, Mallia, Post- Saneti, Tehsil-Dugnakuri, District- Bageshwar.
Coordinates	Latitude- 29°54' 42.51"N to 29°54'39.31"N Longitude- 79°59'7.21"E to 79°59'5.90"E
Mining Lease Area	6.129 Ha.
Category	B1 & 1(a) enlisted in project /activity as per EIA Notification, 2006.

The project was submitted vide proposal no SIA/UK/MIN/407718/2022 on dated 24th November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has submitted detailed project related

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information in Form 1, Pre Feasibility Report and EMP Project was prepared by Accredited consultancy firm Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator.


Hence, committee agreed to recommend ToR (Annexure-4) to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.

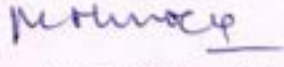
Proposal - 5

Online proposal No.	SIA/UK/MIN/417885/2023
Site Details	Proposed Extraction of Soapstone at Village-Tachhani, Tehsil & District-Bageshwar.
Name & Address of Proponent	M/s Bhagwati Mines Tachhani by Shri Ganesh Singh S/o Shri Aan Singh, Village & Post- Tachhani, Tehsil & District- Bageshwar.
Coordinates	Latitude- 29°46' 59.66"N to 29°47'0.21"N Longitude- 79°50'40.14"E to 79°50'34.83"E
Mining Lease Area	6.319 Ha.
Category	B1 & 1(a) enlisted in project /activity as per EIA Notification, 2006.


The project was submitted vide proposal no SIA/UK/MIN/417885/2023 on dated 11th February, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator.


Hence, committee agreed to recommend ToR (Annexure-4) to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.


(Shri S.S. Bist)
Chairman, SEAC

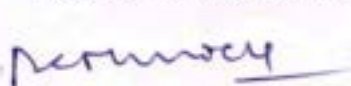

(Dr. A.K. Minocha)
Member, SEAC

(Dr. Ashutosh Gautam)
Member, SEAC
Consent received on
Email


(Dr. B.P. Purohit)
Member, SEAC


(Shri Nitish Mani Tripathi)
Secretary, SEAC

- 1) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- 2) The building plan and structural design of the unit shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- 3) No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 4) The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- 5) During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- 6) The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 7) All stacking and loading areas should be provided with proper earthen drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- 8) The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However air emissions from DG set should comply with CPCB norms by designing stack of adequate height
- 9) No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 10) All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- 11) The gaseous emissions (SO_x , NO_x , CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- 12) Fugitive emissions in the work zone environment, product, raw materials and storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UKPCB/Central Pollution Control Board. Dust / Powder from the formulation process shall be collected by dust extractor.
- 13) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UKPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- 14) The DG sets shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- 15) The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- 16) All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions.
- 17) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- 18) All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time



- 19) Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- 20) Training shall be imparted to all employees on safety and health aspects of handling of chemicals. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 21) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- 22) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- 23) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles.
- 24) Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 25) One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation in consultation with State Forest Department. The species should include criterion of fruit bearing and fast growth.
- 26) Solar panel/energy should be encouraged/installed in the premises.
- 27) The project proponent shall undertake in eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- 28) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.
- 29) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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memorandum

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1. The legal status of the mining lease area shall remain unchanged and the Environment Clearance shall remain coterminus with lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
2. The mining/extraction of soapstone shall not be done without approved mine plan from designated authority. The mine plan should be revised every 5 years and no fresh mine plan shall be prepared without site inspection by designated authority
3. The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoining pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining. A safety zone of 7.5 mt (surrounding the mine site) shall be left free from mining
4. The mining shall be carried out **manually** without adopting drilling and blasting operation. The use of hand held mechanically driven equipment is permitted. The use of any electrically driven machinery shall be remain prohibited and only hand held tools shall be used for extraction of the mineral
5. Soapstone mining shall be carried out during sunrise to sunset period only. It shall not involve felling of trees and clearance of vegetation. There shall be no permanent construction at the site except temporary erection of first aid room, office, store, drinking water shed, rest shelter etc.
6. The process of mining and quantity of extractable mineral and subsequently progressive mine closure shall be as per the approved mine plan. The mining operation shall be carried out from **upper level to lower level** by formation of benching pattern. The maximum height of benches shall not exceed 1.5 mt and ultimate pit slope shall be kept at 45 degrees
7. The maximum permissible depth for mining of soapstone shall not exceed 6 meter or depth of ground water table whichever is less. During first five years of mining lease the depth of mining shall not exceed 3 meter. Mining beyond 6 meter shall be granted after site visit by SEAC
8. Mining shall be permissible from 1st October of every year to 15th June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season
9. Reclamation of the mine lease area shall be through back filling, stabilization and cultivation. The waste and top soil generated during mining shall be temporarily stacked in external dump which will be subsequently vacated and back filled in mined out pits. The waste generated in the area will be backfilled during rains and land made suitable for cultivation. Back filling shall be done in a retreating manner from **lower level to upper level**. Mining activity and back filling shall be done simultaneously once space is available
10. No disturbance to natural drainage system around the mining lease area shall be done. No mixing of wastes is allowed. The dump site shall be kept away from the nearby nallahs/water bodies and maintained at a distance of at least 100 meters. The external dump shall be protected against slide/slip by adopting suitable mechanical and vegetative measures. Proponent should construct a retaining wall, along the nallah side, with suitable height to protect soil erosion. The construction of toe wall, check dam and planting of grass species/soil binding dwarf species in dump yard shall be done
11. The project proponent shall undertake transportation of mineral from pit head to read head manually or by mule. Further it shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minerals to final destination. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
12. The project proponent shall regulate and maintain record of the quantity of soapstone extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time.
13. There shall be no labour camp in the mining lease area for the labour engaged in mining of soapstone. The labour engaged in mining shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land
14. Proponent should submit surface water quality and ambient air quality monitoring report as committed in EMP, with suitable parameters
15. Under corporate social responsibility proponent should develop community services such as drinking water, education, housing, sanitation, health, safety and medical facilities, public transportation and communication, social welfare etc.
16. The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
17. Afforestation shall be carried out in nearby Van Panchayat. The species selection shall be site specific and cater to the demand of the Van Panchayat. The concerned district official of State Forest Department shall ensure the compliance.
18. The Geology and Mining department shall identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site

19. The project proponent shall formulate a transparent and unbiased procedure for engagement of laborers for sustainable extraction of the minerals from the mining lease area. The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with relevant Acts/Rules
20. The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the No Work Zone in the mine lease area i.e. at least 100mt distance from Nallahs/Water Bodies, bridges, educational institution or structures of historical importance.
21. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard
22. The project proponent shall provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained
23. The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
24. The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project
25. The project proponent should plant 5000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
26. Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
27. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
28. The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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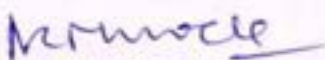







Annexure-3

- 1.1. Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- 1.2. No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 1.3. The Site Lay out plan and Building plan should have been approved by the concerned Department/Agency of the State Government before work start up at the construction site. The structural design and other aspects of the building shall comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies
- 1.4. The building plan and structural design shall comply with requirements of Seismic Zone – IV as outlined in National Building Code
- 1.5. The topsoil excavated during construction work shall be used for backfilling/landscape development/green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority
- 1.6. The onsite levelling and dressing should ensure minimal vegetation clearing and soil erosion. If necessary organic mulching should be done to avoid soil erosion. There shall not be any felling of green trees for the purpose of this project
- 1.7. The disposal of muck should adhere to standards of general safety and health concerns of local people and also it should have no adverse effect on the neighbouring community. The muck shall not be disposed off in adjoining forest areas without meeting requirements of Forest (Conservation) Act, 1980.
- 1.8. Temporary storage units should be erected in the construction site and transportation of construction materials shall be restricted to non-peak hours. The dust pollution shall be suppressed by regular water sprinkling
- 1.9. The use of ready mixed concrete/premixed concrete, curing agents and other such practices shall be adopted to minimize use of water on site
- 1.10. All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as such materials leach into ground water.
- 1.11. The water requirement during construction phase shall be met from regular water supply/private tankers. There shall be no extraction of ground water and water requirement for the project in operational phase shall be met entirely from private tankers. Construction work requiring water shall not be carried out during 30th April to 15th June in the year
- 1.12. The soil and groundwater samples shall be tested from accredited agencies and it shall be ensured that they comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 1.13. DG Sets shall be used only as backup power. The capacity of DG sets shall not exceed capacity 500 KVA and it should have stack height complying with CPCB norms.
- 1.14. Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices/sensor based control. Dual plumbing system shall be installed separately for fresh water and waste water.
- 1.15. The use of glass may be reduced by upto 40 percent to reduce the electricity consumption and load on air conditioning. If necessary then use of high quality double glass may be encouraged with special reflective coating in windows.
- 1.16. The use of LED and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 10 percent of the total power requirement after completion of construction unit shall be met from solar energy.
- 1.17. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, 2006 which is proposed to be mandatory for all air-conditioned spaces while non air-conditioned spaces should have appropriate thermal insulation materials. The U values of the roof, external wall and fenestration shall also meet specifications of ECBC, 2006.









1.18. Rainwater harvesting for roof top and surface run off should be ensured as per the plan submitted. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles. The bore well for rain water recharging should be kept at 5 metres above the highest ground water table

1.19. The storm water management shall be so designed as to avoid discharge of water directly to the forest areas/adjoining locality which may lead to water logging in nearby areas. The storm water shall be put to use for recharging of aquifers and also pond creation within the campus

1.20. One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material has to be used during plantation as per standards of State Forest Department.

1.21. Acoustic enclosures shall be provided with all construction machineries and DG sets on site complying with Noise Levels of CPCB standards. The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UEPPCB.

1.22. The construction debris may be used for land fill or disposed through authorized vendors. The Hazardous substances generated during construction activity shall be disposed off as required by Hazardous Waste (Management, Handling) Rules, 1989 (as amended from time to time). Efforts shall be maximized for use of low toxicity substitutes and low VOC materials.

1.23. The construction work shall be restricted to Sunrise to Sunset period in a day. Any construction activity beyond this period shall be subject to approval of Competent/Designated Authority from time to time.

1.24. The vehicles used at the construction site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.

1.25. All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.

1.26. Adequate drinking water and sanitation facility has to be provided on site for the workforce. Provision should be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.

1.27. The use of plastics during construction activity shall be bare minimum and efforts to use timber substitute materials should be maximized.

1.28. The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.

1.29. The entire site after construction activities should carry signages of garbage collection points, environment awareness etc.

1.30. A STP shall be installed for treating waste water upto permissible standards and complying with parameters of CPCB/UEPPCB guidelines & no treated waste water is allowed to take outside the premises for any uses.

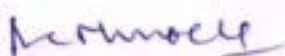
1.31. Guidelines of Municipal Solid Waste (Management & Handling) Rules, 2000 (as amended from time to time) should be followed for disposal of solid waste. Two bin collection system for bio degradable and non bio degradable waste should be adopted. Bio degradable waste shall be sent to composting pit and non biodegradable/inert waste disposed off through authorized recyclers. STP sludge shall be dried and used as organic manure.

1.32. Energy consumption measures like installation of LED/TFLS for the external lighting area should be ensured. The disposal of used LED/TFLS should be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

1.33. DG sets shall be used only in emergency purpose. The use of solar energy and inverter shall be ensured and maximized as backup power.

1.34. Solar panel/energy should be encouraged/installed in the premises.

1.35. The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines from time to time in force, as applicable to the project.









1.36. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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Terms of Reference (ToR)

Terms of Reference (TOR) for preparation of Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for "Mining of Minerals" as per the EIA Notification, 2006 has been devised to improve the quality of the reports and facilitate decision-making transparent and easy. TOR will help the project proponents to prepare report with relevant project specific data and easily interpretable information. TOR for mining of minerals is expected to cover all environmental related features.


Mining of minerals plays a positive role in the process of country's economic development. In addition to the contribution towards economic growth, mining can also be a major source of degradation of physical as well as social environment, unless it is properly managed. Environmental impacts can arise during all activities of the mining process. Minimizing the damage due to mining operations depends on sound environmental practices in a framework of balanced environmental legislation. The potential adverse effects of mining activities include air pollution, surface and groundwater pollution, noise and vibration, damage to local ecology, natural topography and drainage, depletion of water resources etc. All these environmental components are required to be considered while selecting a proper methodology of mining, mitigation measures to reduce pollution load, conservation of natural resources etc.

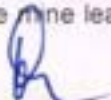
The projects of mining of minerals as stated in the schedule require prior environment clearance under the EIA notification, 2006. Category 'A' Projects are handled in the MoEF&CC and Category 'B' projects are being handled by the respective State Environment Impact Assessment Authorities (SEIAAs) notified by MoEF&CC and following the procedure prescribed under the EIA Notification, 2006. As per this Notification, as amended, the projects of mining of minerals with mining lease area equal to or greater than 50 hectare are to be handled at the level of the MoEF&CC for grant of EC. Such projects with mining lease area less than 50 hectare are to be handled by the respective State Environment Impact Assessment Authority (SEIAA).

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 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 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 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) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) 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.

- 22) 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.
- 23) 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.
- 24) 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.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) 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.
- 27) 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.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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.
- 32) 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.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) 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.
- 35) 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.



- 36) 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.
- 37) 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.
- 38) 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.
- 39) 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.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) 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.

44) Besides the above, the below mentioned general points are also to be followed:-

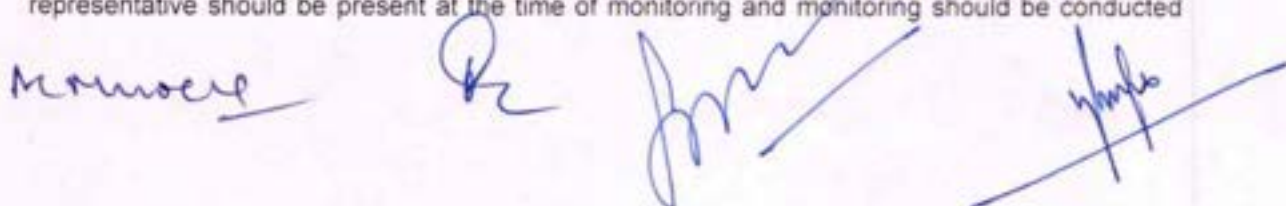
- a) Executive Summary of the EIA/EMP Report
- b) All documents to be properly referenced with index and continuous page numbering.
- c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- d) Project Proponent 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 issued by MoEF&CC.

Additional TOR:

1. To ensure proper monitoring, the project proponent/consultant should provide evidence in for of (A) Raw Data (B) Logbook of their site visit along with activities carried out during monitoring (C) Real time photographs showing monitoring machine, public, lab person etc. Proprietor/proprietor representative should be present at the time of monitoring and monitoring should be conducted



as per CPCB SOP/NABET/QCI guidelines. Lab responsible person should be present at the time of EIA presentation.

2. EIA coordinator & FAE should give a photo affidavit during EIA presentation that they have personally visited the site & they have also taken all the mitigating measures for any critical issues involved in the project.
3. The project proponent will have to inform the schedule of monitoring/data collection programme to the SEIAA, Uttarakhand before start of data collection. In case of failure, the collected baseline monitoring data will be treated as null and void.
4. The details of equipment used for baseline monitoring alongwith its photograph mentioning date, time and geo coordinates for preparation of EIA report should be clearly displayed to the people present during public hearing and the complete details related to monitoring period must be mentioned in the minutes of public hearing.
5. Original lab analysis report of the project proposal along with EIA report should be uploaded on Parivesh Portal.
6. Combined KML of all mines in a cluster should be submitted at the time of EIA.
7. The project proponent/Consultant should identify the core & buffer zone (2.5 km) of the mining site.
8. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road to be submitted at the time of EIA presentation.
9. Proponent/ Consultant should submit the plan/information along with technology (photographs of water sprinklers/ tankers) to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement. Technology should be displayed at the time of EIA presentation.
10. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted at the time of EIA presentation.
11. Water requirement details along with source of water and the permission/ agreement with the concerning authority/ person to be submitted at the time of EIA presentation.
12. Proponent/consultant shall present TOR specific/additional conditions compliance, observation/suggestions raised during the public hearing and commitment made by the project proponent in a tabular form with a time bound plan at the time of EIA presentation.
13. Corporate Social Responsibility (CSR) to be prepared as per the MoEF&CC guidelines and present it at the time of EIA presentation.

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Monroe

Dr

John

gupta