

**State Level Expert Appraisal Committee, Uttarakhand**  
**"GauradeviParyavaranBhawan, 3<sup>rd</sup> Floor,**  
**46-B, I.T. Park, Sahastradhara Road, Dehradun"**

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Letter No: 30/SEAC  
Dated: 26<sup>th</sup> July, 2023

The First day of the 11<sup>th</sup> meeting of the Uttarakhand State Level Expert Appraisal Committee (SEAC) was held on 25<sup>th</sup> July, 2023 at the SEIAA/SEAC office Dehradun. The following were present at the meeting –

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

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 Industrial, Construction, Mining (R.B.M/Soapstone) etc. The concerned recognized environment consultants of the proponents made the presentations.

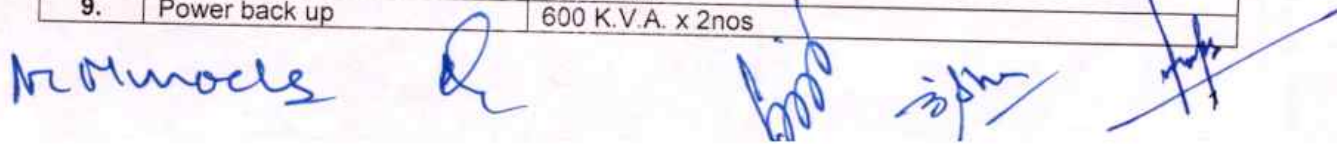
**Consideration/Reconsideration of Proposals For Environmental Clearance (E.C.)**

**Proposal – 1**

Online proposal No.	SIA/UK/IND3/435584/2023
Name of the Project	Proposed proposal for manufacturing of Pharmaceutical Formulations unit at Plot No- C1, Pharma City, Selaqui, Dehradun.
Name & Address of Proponent	M/s East African India Overseas (Unit –V) by Shri Jitendra Kumar (Vice President)
Whether New/Expansion/Modernization Project	New
Total Plot Area	1757.00 m <sup>2</sup>
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/IND3/435584/2023 on dated 6<sup>th</sup> July, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed proposal for manufacturing of Pharmaceutical Formulations unit. 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 Enviro Infra Solutions Pvt. Ltd. and project was presented by Shri Deepak Pandey, Functional Area Expert (FAE).** The details of the project are as follows:-

S.No	Parameters	Description
1.	Products and quantity per Annum	Tablets
		500 MT
		Capsules
		500 MT
		Syrup
		3000 KL
		Ointment
		600 KL
		Liquid Injection
		600 KL
		Dry Injection
		90 MT
		Lotion/Cream/Shampoo
		700 KL
		Soap
		400 MT
		External
		400 KL
2.	Estimated Project Cost	20.33 Crores
3.	Total Plot Area	1757.00m <sup>2</sup>
4.	Proposed Green Area	190.66m <sup>2</sup>
5.	Proposed Green Area	190.66m <sup>2</sup>
6.	Fresh Water Consumption	45KLD
7.	Fresh Water Source	Borewell and SIDCUL Water Supply
8.	Power Demand	1000 KVA
9.	Power back up	600 K.V.A. x 2nos









Treatment		
Total	25.00	10.00

**Solid waste details:**

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Used Oil [Category 5.1]	1.0 MTA	Authorized TSDF
2	ETP sludge [Category 35.3]	1.0 MTA	Authorized TSDF
3	Off Specification Products [Category 28.4]	1.0 MTA	Authorized TSDF
4	Date Expired Products [Category 28.5]	2.0 MTA	Authorized TSDF

The Committee after examining the original proposal and after going through the presentation done by the consultant wherein he informed that they have made minor violation by doing some excavation work.

The SEAC has raised following observations-

- SEAC asked the Project Proponent for submitting actual amount of money incurred so far by the project to estimate the penalty. Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date. This non-refundable amount is to be deposited in the account of State Pollution Control Board.
- The Project Proponent is expected to submit the total budgetary allocation pertaining to remediation plan and natural and community resource augmentation plan. The Project Proponent shall submit a bank guarantee equivalent to the above amount with the State Pollution Control Board. This bank guarantee is refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan.
- Thus the committee is of the view that this proposal may be deferred until the project proponent ensures the compliance of above mentioned directions. After compliance and submission of the above information the project will be considered for accord of Environmental Clearance (E.C.) in the next meeting of SEAC.
- In addition the committee is of the view that the Project Proponent shall revised product category list, EMP & CSR/CER.

**Proposal – 2**

Online proposal No.	SIA/UK/IND3/435694/2023
Name of the Project	Proposed proposal for manufacturing of Pharmaceutical Formulations unit at Plot No- 8B, Pharma City, Selaqui, Dehradun.
Name & Address of Proponent	M/s East African India Overseas (Unit –IV) by Shri Jitendra Kumar (Vice President)
Whether New/Expansion/Modernization Project	New
Total Plot Area	568.49 m <sup>2</sup>
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/IND3/435694/2023 on dated 6<sup>th</sup> July, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed proposal for manufacturing of Pharmaceutical Formulations unit. 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 Enviro Infra Solutions Pvt. Ltd. and project was presented by Shri Deepak Pandey, Functional Area Expert (FAE).** The details of the project are as follows:-

S.No	Parameters	Description
1.	Products and quantity per Annum	Tablets
		350 MTA
		Capsules
		350 MTA
		Syrup
		1750 MTA
		Eye Drop
		40 MTA
		Ointment/Cream/Balm
2.	Estimated Project Cost	350 MTA
		1750 MTA
3.	Total Plot Area	1321.01 Lacs
4.	Proposed Green Area	568.49m <sup>2</sup>
		52.69m <sup>2</sup>

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5.	Proposed Green Area	52.69m <sup>2</sup>			
6.	Fresh Water Consumption	15KLD			
7.	Fresh Water Source	SIDCUL Water Supply			
8.	Power Demand	750KVA			
9.	Power back up	600 K.V.A. x 1no			
10.	Wastewater Management	Use of Water	Water requirement	Waste water generation	Mode of Disposal
		Process	10KLD	8 KLD	ETP
		Domestic	5KLD	3KLD	STP
11.	Steam and heating system	Boiler of 850kg/hr capacity			
12.	Fuel Consumption	HSD50ltr/hr for DG Set and HSD50Ltr/hr for Boiler			

**Land use details:**

S.No	Parameters	Description
1.	Ground Coverage	235.37 sqm
2.	Road and Paved area	63.00sqm
3.	Parking area	12 E.C.S
4.	Green Area	52.69m <sup>2</sup>
5.	Switchyard [OTS]	N.A.
6.	Future Expansion Area	N.A.
	Total Plot Area	568.49m <sup>2</sup>

**Raw material details:**

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	Cetyl Alcohol	2200 kg	Open	By Road
2.	Sles	14000kg	Open	By Road
3.	Kokkum Butter	500kg	Open	By Road
4.	Ginseng Powder	508 kg	Open	By Road
5.	Tea Tree Oil	465 kg	Open	By Road
6.	Etidronic Acid	300 kg	Open	By Road
7.	CresmerEw (Emulsifying Wax)	4486 kg	Open	By Road
8.	Esomeprazole 22.5 % (Col-Redoxide Of Iron) Pellets	468 kg	Open	By Road
9.	Galaxy 8501d	917kg	Open	By Road
10.	Glyceryl Mono Stearte (Se)	1510 kg	Open	By Road
11.	Ketoconazole	509 kg	Open	By Road
12.	Microcrystalline Cellulose (101)	809 kg	Open	By Road
13.	Poly Ethylene Glycol - 400 (Ph)	1175 kg	Open	By Road
14.	Poly Sorbate-20	602 kg	Open	By Road
15.	Polyoxyl-40 Hydrogenated Castor Oil (AcrysolK140)	463 kg	Open	By Road
16.	Soap Noodles	80440 kg	Open	By Road
17.	Soap Stone Powder 500# (98% Whitener Calcium Free)	693 kg	Open	By Road
18.	Sodium Benzoate	450 kg	Open	By Road
19.	Starch	1224 kg	Open	By Road
20.	Stearic Acid	2410 kg	Open	By Road
21.	Sucrose (S-31)	59838 kg	Open	By Road
22.	Tricholine Citrate	1500 kg	Open	By Road
23.	White Petroleum Jelly	957 kg	Open	By Road

**Domestic Water Demand and Effluent Generation:**

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	100nos	30	3.00	2.8
2	Flushing water	100nos	15	1.5	1.2
3	Canteen Facility	--	--	--	--
4	Housekeeping	L.S.	45	0.5	0.00
5	Gardening	52.69sqm	6.25ltr/sqm	0.330	--

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**Industrial Water Demand and Effluent Generation:**

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process - Boiler Chiller	0.85	0.10
2	Cooling Tower make up	--	--
3	Laboratory	--	--
4	APC devices [Fume scrubber]	--	--
5	Rejects from Water Treatment	9.15	7.90
	Total	10.00	8.00

**Solid waste details:**

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Used Oil [Category 5.1]	0.4 MTA	Authorized TSDF
2	ETP sludge [Category 35.3]	0.2 MTA	Authorized TSDF
3	Off Specification Products [Category 28.4]	2.0 MTA	Authorized TSDF
4	Date Expired Products [Category 28.5]	1.0 MTA	Authorized TSDF

The Committee after examining the original proposal and after going through the presentation done by the consultant wherein he informed that they have made minor violation by doing some excavation work.

The SEAC has raised following observations-

- SEAC asked the Project Proponent for submitting actual amount of money incurred so far by the project to estimate the penalty. Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date. This non-refundable amount is to be deposited in the account of State Pollution Control Board.
- The Project Proponent is expected to submit the total budgetary allocation pertaining to remediation plan and natural and community resource augmentation plan. The Project Proponent shall submit a bank guarantee equivalent to the above amount with the State Pollution Control Board. This bank guarantee is refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan.
- Thus the committee is of the view that this proposal may be deferred until the project proponent ensures the compliance of above mentioned directions. After compliance and submission of the above information the project will be considered for accord of Environmental Clearance (E.C.) in the next meeting of SEAC.
- In addition, the committee is of the view that the Project Proponent shall revised product category list, EMP & CSR/CER.

**Proposal - 3**

Online proposal No.	SIA/UK/IND3/435787/2023
Name of the Project	Existing Printing Press Unit with capacity of Approx. 25000 pages per day at 50/51 Nari Shilp Mandir Marg, Chakrata Road, Dehradun.
Name & Address of Proponent	M/s Vishal Darpan by Shri Yogesh Kumar (Proprietor)
Whether New/Expansion/Modernization Project	New
Total Plot Area	114 Sq.ft
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/IND3/435787/2023 on dated 6<sup>th</sup> July, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Printing Press with capacity of Approx. 15000 pages per month. 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 M/s Natureanalytica Envirocare Solutions Pvt. Ltd. and project was presented by Shri O. P. Shukla, EIA Coordinator.** The details of the project are as follows:-

S.No	Parameters	Description
1.	Products and quantity	25000 pages per day printing



2.	Estimated Project Cost	25 lakhs
3.	Total Plot Area	114 Sqft
4.	Proposed Green Area	20 Sqft
5.	Proposed Green Area	20 Sqft
6.	Fresh Water Consumption	0.1 Kld
7.	Fresh Water Source	Uttarakhand Jal Sansthan
8.	Power Demand	150 KW
9.	Power back up	Inverter
10.	Wastewater Management	Sewerage connection
11.	Steam and heating system	-
12.	Fuel Consumption	-

**Land use details:**

S.No	Parameters	Description
1.	Ground Coverage	114 sqft
2.	Road and Paved area	-
3.	Parking area	2 ECS
4.	Green Area	20 sqft
5.	Switchyard [OTS]	-
6.	Future Expansion Area	-
	Total Plot Area	114 sqft

**Raw material details:**

S.No	Major Raw Material	Avg. consumption per annum	Source	Mode of Transport
1.	Paper	1520 MT	Open market	Road
2.	Ink	125 Litre	Open market	Road
3.	Ultra fount & cleaning wash	50 Litre + 50 Litre	Open market	Road

**Domestic Water Demand and Effluent Generation:**

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	3 persons	-	0.02	-
2	Flushing water	3 persons		0.03	-
3	Canteen Facility	-		-	-
4	Housekeeping	-		-	-
5	Gardening	-		0.05	-
	Total	0.1		0.1	-

**Industrial Water Demand and Effluent Generation:**

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:**

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Process waste [Category 21.1]	8-10 kg per month	Sold to authorized recycler
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]	-	-

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

- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- 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.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- 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.
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 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.
- The gaseous emissions (VOC and HC) from printing process 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.
- 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 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.
- Project Proponent shall provide 100 plant sapling to the nearby area for plantation under CER/CSR.
- 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 shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- 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 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 – 4

Online proposal No.	SIA/UK/INFRA2/434837/2023
Name of the Project	Proposed Manufacturing of Footwear'sat Khasra No. 3879, 3880, 3844, Lal Tappar Industrial Area, MauzaMajri Grant, Tehsil-Rishikesh, District- Dehradun
Name & Address of Proponent	M/s Mochiko Sports Pvt. Ltd. by Shri Rajveer Singh (General Manager -HR)
Whether New/Expansion/ Modernization Project	New

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Total Plot Area	9011.06 m <sup>2</sup>
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/434837/2023 on dated 1<sup>st</sup> July, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Manufacturing of Footwear's. 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 Environmental Management Division of M/s India Glycols Ltd. and project was presented by Dr. Chakresh Pathak, EIA Coordinator.**

The committee (barring Dr. Ashutosh Gautam, Member SEAC who recused himself from attending the appraisal of the present proposal) considered the proposal after going through the EIA/EMP reports. The details of the project are given below:-

S.No	Parameters	Description																												
1.	Products and quantity	Existing and Proposed details are given as below: <table><tr><th>Particulars</th><th>Details</th></tr><tr><td colspan="2"><b>A. Production Capacity</b></td></tr><tr><td colspan="2"><b>(i) Footwear's</b></td></tr><tr><td>Existing</td><td>150000 Pairs /Month</td></tr><tr><td>Proposed</td><td>250000 Pairs/ Month</td></tr><tr><td>Total</td><td><b>4,00,000 Pairs/Month</b></td></tr><tr><td colspan="2"><b>B. Manpower (Nos.)</b></td></tr><tr><td>Existing</td><td>1000</td></tr><tr><td>Proposed</td><td>1500</td></tr><tr><td>Total</td><td><b>2500</b></td></tr><tr><td colspan="2"><b>C. DG Set for Alternate Power</b></td></tr><tr><td>Existing</td><td>750 KVA (01 No.)</td></tr><tr><td>Proposed</td><td>1000 KVA (01 No.)</td></tr><tr><td>Total</td><td><b>1000 KVA (01 No.)&amp; 750 KVA (01 No.)</b></td></tr></table>	Particulars	Details	<b>A. Production Capacity</b>		<b>(i) Footwear's</b>		Existing	150000 Pairs /Month	Proposed	250000 Pairs/ Month	Total	<b>4,00,000 Pairs/Month</b>	<b>B. Manpower (Nos.)</b>		Existing	1000	Proposed	1500	Total	<b>2500</b>	<b>C. DG Set for Alternate Power</b>		Existing	750 KVA (01 No.)	Proposed	1000 KVA (01 No.)	Total	<b>1000 KVA (01 No.)&amp; 750 KVA (01 No.)</b>
Particulars	Details																													
<b>A. Production Capacity</b>																														
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Proposed	1500																													
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<b>C. DG Set for Alternate Power</b>																														
Existing	750 KVA (01 No.)																													
Proposed	1000 KVA (01 No.)																													
Total	<b>1000 KVA (01 No.)&amp; 750 KVA (01 No.)</b>																													
2.	Estimated Project Cost	Rs. 27.0 Crore after Expansion																												
3.	Total Plot Area	9011.06Sq.m.																												
4.	Proposed Green Area	On lease land																												
5.	Proposed Green Area	On lease land																												
6.	Fresh Water Consumption	51.0 KL																												
7.	Fresh Water Source	Borewell																												
8.	Power Demand	1600 KVA (Existing 1400 KVA& Proposed 200 KVA)																												
9.	Power back up	Existing – 750.0 KVA (01 No.) Proposed – 1000 KVA (01 No.) Total – 750 KVA x 1000 KVA (02 Nos.)																												
10.	Wastewater Management	Domestic sewage (60.0 KLD) will be treated in Augmented STP Capacity - 65.0 KLD and the treated sewage will be reused for toilet flushing (25.0 KLD), Miscellaneous (1.0 KLD) & Green Belt (2.5 KLD). The surplus treated sewage will be discharge to irrigation purpose for local farmers. Process water (4.0 KLD) will be treated in existing ETP (5.0 KLD), the treated effluent (1.00 KLD) will be reuse in floor washing / Miscellaneous purpose.																												
11.	Steam and heating system	-																												
12.	Fuel Consumption	HSD																												

**Land use details:**

S.No	Parameters	Description
1.	Ground Coverage	3436.79 Sq.m.
2.	Road and Paved area	1149.18 Sq.m.
3.	Parking area	1765.55 Sq.m. along with open area
4.	Green Area	-
5.	Switchyard [OTS]	-
6.	Future Expansion Area	4910.16 Sq. m Existing & after Expansion 9011.06 Sq.m.

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Total Plot Area	9011.06Sq.m.
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**Raw material details:**

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	Rubber Sole (Pairs)	400000	Imported	By Road
2.	Eva Bottom(Pairs)	400000	Indigenous	By Road
3.	Mash (Meters)	400000	Indigenous/Imported	By Road
4.	Lace(Pairs)	400000	Imported	By Road
5.	P U (Meters)	35000	Indigenous	By Road
6.	Additive (Kg)	20600	Indigenous	By Road
7.	Foam(Meters)	79500	Indigenous/Imported	By Road

**Domestic Water Demand and Effluent Generation:**

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	2500	30	75.0	-
2	Flushing water	-	-	-	-
3	Canteen Facility	-	-	-	-
4	Housekeeping	-	-	-	-
5	Gardening	-	-	2.5	-
	Total	2500	30	77.5	-

**Industrial Water Demand and Effluent Generation:**

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Industrial Process	4.0	3.0
2	Boiler	-	-
3	Miscellaneous Purpose	1.0	0.9
	Total	5.0	3.9

**Solid waste details:**

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Used / Spent Oil [Category 5.1]	0.59 MT/Annum	Handed over to authorized recyclers/re-processors
2	ETP sludge [Category 35.3]	0.18 MT/Annum	Handed over to authorized recyclers/re-processors
3	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 33.1]	300 Nos./Annum	Handed over to authorized recyclers/re-processors
4	Contaminated Cotton Rags [Category 33.2]	2.7 MT/Annum	Handed over to authorized recyclers/re-processors

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 informed SEAC during the presentation that the manufacturing process is though in green category but, due to installation of screen printing & enhancement in DG capacity the project falls under orange category.
- **The committee directed that the Project Proponent shall establish a training centre for skill development leading to a certificate course of 3 to 6 months for local people under CSR/CER obligation.**
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- 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.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020

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- 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.
- 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.
- 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 these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 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.
- 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.
- The DG set 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.
- 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.
- 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 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.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- 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 reports pertaining to ambient air quality, 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 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.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- 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 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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Based on above observations and subject to conditions (**Annexure-1**), the committee recommended the above project for grant of Environmental Clearance.

#### Proposal – 5

Online proposal No.	SIA/UK/INFRA2/435042/2023
Name of the Project	Installation of RBM Screening Plant having capacity of 100 TPH along with 125 KVA DG set at Khasra No. 197/2, 37/1, 312/2, 198, 198/80, Village- Fatehpur Tanda, Tehsil- Doiwala, District-Dehradun
Name & Address of Proponent	M/s Shri Ram Associates
Whether New/Expansion/Modernization Project	New
Total Plot Area	1.391 Ha.
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/435042/2023 on dated 4<sup>th</sup> July, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Installation of RBM Screening Plant having capacity of 100 TPH along with 125 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	100TPH
2.	Estimated Project Cost	70 Lac
3.	Total Plot Area	1.391 Hectare
4.	Proposed Green Area	500 Trees Every Year
5.	Fresh Water Consumption	Screening Process: - 35.00KLD, Domestic: - 0.25 KLD Dust Suppression- 2.70 KLD, Greenbelt: - 2.00 KLD Water Recycled: - 31.00 KL Total water requirement: -5.75 KLD
6.	Fresh Water Source	Bore well
7.	Power Demand	125KVA
8.	Power back up	125 KVA DG Set
9.	Wastewater Management	31.0KLD water shall be recycled
10.	Steam and heating system	NA
11.	Fuel Consumption	NA

#### Land use details:

S.No	Parameters	Description
1.	Ground Coverage	1.391 Hectare
2.	Road and Paved area	NA
3.	Parking area	NA
4.	Green Area	500 Trees Every Year
5.	Switchyard [OTS]	NA
6.	Future Expansion Area	NA
	Total Plot Area	1.391 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				

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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 and other)
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	39.75	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]	--	--
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 non-perennial river is 420 meters & no other perennial river falls within 500 meters of the said project.
- Govt. of Uttarakhand has issued G.O. in favour of this project vide its letter No- 2423 dated- 17.01.2019 which is valid for 5 years, the present E.C. will remain co-terminus with

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the duration of the Govt. G.O. In future if extension/renewal is provided by the Govt. then the current E.C. will be co-terminus with the extended/renewed G.O.

- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- 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 10<sup>th</sup> day of every month and the reports pertaining to ground water quality and noise shall be submitted before 10<sup>th</sup> 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 rainwater 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.

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- 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.
- **The committee is of the view that a similar case was forwarded to UKPCB regarding the violation. Therefore, this project may also be referred to UKPCB for clarification.**

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

#### Proposal – 6

Online proposal No.	SIA/UK/INFRA2/436529/2023
Name of the Project	Proposed Manufacturing of Footwear's by at Khasra No. C-2 at Dhalwala Industrial Area, Muni Ki Reti, District- TehriGarhwal.
Name & Address of Proponent	M/s Mochiko Sports Pvt. Ltd. (Unit-II) by Shri Rajveer Singh (General Manager -HR)
Whether New/Expansion/ Modernization Project	New
Total Plot Area	4331.00m <sup>2</sup>
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/436529/2023 on dated 13<sup>th</sup> July, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Manufacturing of Footwear's. 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 Environmental Management Division of M/s India Glycols Ltd. and project was presented by Dr. Chakresh Pathak, EIA Coordinator.**

The committee (barring Dr. Ashutosh Gautam, Member SEAC who recused himself from attending the appraisal of the present proposal) considered the proposal after going through the EIA/EMP reports. The details of the project are given below:-

S.No	Parameters	Description																												
1.	Products and quantity	Existing and Proposed details are given as below:																												
		<table><tr><th>Particulars</th><th>Details</th></tr><tr><td colspan="2"><b>A. Production Capacity</b></td></tr><tr><td colspan="2"><b>(i) Footwear's</b></td></tr><tr><td>Existing</td><td>100000 Pairs /Month</td></tr><tr><td>Proposed</td><td>50000 Pairs/ Month</td></tr><tr><td><b>Total</b></td><td><b>1,50,000 Pairs/Month</b></td></tr><tr><td colspan="2"><b>B. Manpower (Nos.)</b></td></tr><tr><td>Existing</td><td>850</td></tr><tr><td>Proposed</td><td>250</td></tr><tr><td><b>Total</b></td><td><b>1100</b></td></tr><tr><td colspan="2"><b>C. DG Set for Alternate Power</b></td></tr><tr><td>Existing</td><td>500 KVA&amp; 350 KVA(01 No. each)</td></tr><tr><td>Proposed</td><td>500 KVA (01 No.) replace with 350 KVA</td></tr><tr><td><b>Total</b></td><td><b>500 KVA (02 No.)</b></td></tr></table>	Particulars	Details	<b>A. Production Capacity</b>		<b>(i) Footwear's</b>		Existing	100000 Pairs /Month	Proposed	50000 Pairs/ Month	<b>Total</b>	<b>1,50,000 Pairs/Month</b>	<b>B. Manpower (Nos.)</b>		Existing	850	Proposed	250	<b>Total</b>	<b>1100</b>	<b>C. DG Set for Alternate Power</b>		Existing	500 KVA& 350 KVA(01 No. each)	Proposed	500 KVA (01 No.) replace with 350 KVA	<b>Total</b>	<b>500 KVA (02 No.)</b>
		Particulars	Details																											
		<b>A. Production Capacity</b>																												
		<b>(i) Footwear's</b>																												
		Existing	100000 Pairs /Month																											
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		<b>Total</b>	<b>1,50,000 Pairs/Month</b>																											
		<b>B. Manpower (Nos.)</b>																												
		Existing	850																											
		Proposed	250																											
		<b>Total</b>	<b>1100</b>																											
		<b>C. DG Set for Alternate Power</b>																												
		Existing	500 KVA& 350 KVA(01 No. each)																											
Proposed	500 KVA (01 No.) replace with 350 KVA																													
<b>Total</b>	<b>500 KVA (02 No.)</b>																													
2.	Estimated Project Cost	Rs. 22.0 Crore after Expansion																												
3.	Total Plot Area	4331.0 Sq. m																												
4.	Proposed Green Area	464.33Sq. m																												
5.	Proposed Green Area	464.33 Sq. m																												
6.	Fresh Water Consumption	22.3 KL																												
7.	Fresh Water Source	Borewell																												
8.	Power Demand	Existing – 650 & Proposed - 350 Total – 1000 (Sources from UPCL)																												
9.	Power back up	Existing – 500.0 KVA & 350 KVA (02 No.)																												



		Proposed – 500 KVA (01 No.) in place of 350 KVA Total – 500 KVA (02 Nos.)
10.	Wastewater Management	Domestic sewage (26.4 KLD) will be treated in Augmented STP Capacity - 30.0 KLD and the treated sewage will be reused for toilet flushing (12.0 KLD), Miscellaneous (1.0 KLD) & Green Belt (2.0 KLD). The surplus treated sewage will be discharge into sewer. Process water (1.0 KLD) will be treated in existing ETP (1.5 KLD), the treated effluent (1.00 KLD) will be reuse in washing purpose.
11.	Steam and heating system	-
12.	Fuel Consumption	HSD

**Land use details:**

S.No	Parameters	Description
1.	Ground Coverage	2074.21 Sq.m.
2.	Road and Paved area	-
3.	Parking area	-
4.	Green Area	464.33
5.	Switchyard [OTS]	-
6.	Future Expansion Area	-
	Total Plot Area	4331.0Sq.m.

**Raw material details:**

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	Rubber Sole (Pairs)	175000	Indigenous	By Road
2.	Eva Bottom(Pairs)	175000	Indigenous	By Road
3.	Mash (Meters)	30000	Indigenous	By Road
4.	Lace(Pairs)	175000	Indigenous	By Road
5.	P U (Meters)	11500	Indigenous	By Road
6.	Addisive (Kg)	7200	Indigenous	By Road
7.	Foam(Meters)	15000	Indigenous	By Road

**Domestic Water Demand and Effluent Generation:**

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	1100	30	33.0	-
2	Flushing water	-	-	-	-
3	Canteen Facility	-	-	-	-
4	Housekeeping	-	-	-	-
5	Gardening	-	-	2.5	-
	Total	1100	30	77.5	-

**Industrial Water Demand and Effluent Generation:**

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Industrial Process	4.0	3.0
2	Boiler	-	-
3	Miscellaneous Purpose	1.0	0.9
	Total	5.0	3.9

**Solid waste details:**

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Used / Spent Oil [Categoary5.1]	0.2 MT/Annum	Handed over to authorized recyclers/re-processors
2	ETP sludge [Category 35.3]	0.1 MT/Annum	Handed over to authorized recyclers/re-processors
3	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 33.1]	250Nos./Annum	Handed over to authorized recyclers/re-processors

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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 Project Proponent informed SEAC during the presentation that the manufacturing process is though in green category but, due to installation of screen printing & enhancement in DG capacity the project falls under orange category.
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- 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.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- 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.
- 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.
- 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 these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 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.
- 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.
- The DG set 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.
- 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.
- 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 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.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- 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 reports pertaining to ambient air quality, 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 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.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- 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 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 – 7

<b>Online proposal No.</b>	SIA/UK/MIN/433972/2023
<b>Site Details</b>	Reappraisal of DEIAA E.C for Extraction of Soapstone at Village- Sawaar, Tehsil- Tharali, District- Chamoli.
<b>Name &amp; Address of Proponent</b>	Shri Bhuwan Chandra Upadhyay (Owner) S/o Shri Nityanand Upadhyay R/o- Village- Kholi, Post- Chaunra, District- Bageshwar.
<b>Coordinates</b>	Latitude- 29°41'40.18"N to 29°41'40.71"N Longitude- 80°11'37.47"E to 80°11'37.10"E
<b>Mining Lease Area</b>	4.545 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/MIN/433972/2023 on dated 20<sup>th</sup> June, 2023 by the project proponent. The committee observed that proponents seek Environmental 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.

The project proponent has requested SEAC vide his letter dated- 20.07.2023 to defer this proposal as the project proponent is unable to present the case due to unavoidable circumstances. Hence with the permission of the chair, the committee decided to defer the project.

#### Proposal – 8

<b>Online proposal No.</b>	SIA/UK/MIN/434775/2023
<b>Site Details</b>	Extraction of Soapstone at Village- Meyoli, Tehsil- Didihat, District- Pithoragarh.
<b>Name &amp; Address of Proponent</b>	Shri Bhupendra Singh Mehra (Owner) S/o Shri Kishan Singh Mehra R/o- 180 Cinema Line, P/o- Pithoragarh, Tehsil & District- Pithoragarh.
<b>Coordinates</b>	Latitude- 29°41'11.81"N to 29°41'23.81"N Longitude- 80°11'8.98"E to 80°11'18.41"E
<b>Mining Lease Area</b>	4.346 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/MIN/434775/2023 on dated 27<sup>th</sup> June, 2023 by the project proponent. The committee observed that proponents seek Environmental 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.

The project proponent has requested SEAC vide his Email dated- 24.07.2023 to defer this proposal as the project proponent is unable to present the case due to unavoidable circumstances. Hence with the permission of the chair, the committee decided to defer the project.

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

**Proposal – 1**

Online proposal No.	SIA/UK/INFRA2/422607/2023
Name of the Project	Existing Aamwala Tarla Group Housing Project under violation at Khasra No.-102 Jha, Village-Aamwala Tarla, Tehsil & District-Dehradun.
Name & Address of Proponent	M/s Mussoorie Dehradun Development Authority (MDDA), Dehradun.
Whether New/Expansion Project	New
Total Plot Area	30000.00 m <sup>2</sup>
Total Built up Area	37614.68 m <sup>2</sup>
Project Category	"B1" & 8(a) as enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/422607/2023 on dated 18<sup>th</sup> March, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Existing Aamwala Tarla Group Housing Project under violation. The proponent has submitted detailed project related information in Form 1, Form 1-A, Conceptual Plan & EMP.

Neither the project proponent nor the consultant turned-up for the presentation on designated date and time beside this, they did not inform the reason for not attending the meeting. Hence, with the permission of the chair, the committee decided to defer the project.

**Proposal – 2**

Online proposal No.	SIA/UK/IND1/433382/2023
Name of the Project	Proposed Expansion for Manufacturing of M.S. Billets and Rolling Mills products at Plot no. A-1/2, UPSIDC Industrial Area, Village - Landhaura, Tehsil - Roorkee, District - Haridwar.
Name & Address of Proponent	M/s Radiant Bar Private Limited by Shri Mohd. Ibrahim (Director)
Whether New/Expansion/Modernization Project	Expansion
Total Plot Area	25158.00 m <sup>2</sup>
Project Category	B1 & 3(a) Metallurgical industries (ferrous & non ferrous) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/IND1/433382/2023 on dated 16<sup>th</sup> June, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Expansion for Manufacturing of M.S. Billets and Rolling Mills products. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Enviro Infra Solutions Pvt. Ltd. and project was presented by Shri Deepak Pandey, Functional Area Expert (FAE).**

Hence, committee agreed to recommend **ToR (Annexure-2)** 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. The Project Proponent shall carryout Carbon foot printing & carbon sequestration study. The Project Proponent shall carryout a study to use alternative green fuel. The Project Proponent shall ensure that no slag is disposed in low lying area. The Project Proponent shall submit detailed slag management plan. The Project Proponent shall carryout detailed vehicular emission study.

A sub-committee of SEAC may visit the project site before consideration of proposal for Environmental Clearance.

**Proposal – 3**

Online proposal No.	SIA/UK/MIN/425709/2023
Site Details	Proposed Extraction of Soapstone at Village- Ramani, Tehsil- Ghat& District-Chamoli.
Name & Address of	Shri Mahesh Singh Bhauriyal S/o Shri Balwant Singh Bhauriyal & Shri



<b>Proponent</b>	Sunder Singh S/o Shri Keshar Singh
<b>Coordinates</b>	Latitude- 30°18'14.16"N to 30°18'30.95"N Longitude- 79°30'2.33"E to 79°30'24.33"E
<b>Mining Lease Area</b>	11.675 Ha.
<b>Category</b>	B1 & 1(a) enlisted in project /activity as per EIA Notification, 2006.

The project was submitted vide proposal no SIA/UK/MIN/425709/2023 on dated 12<sup>th</sup> April, 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 Cognizance Research India Pvt. Ltd. and project was presented by Shri Ankur Sharma, Managing Director & EIA Coordinator.**

Hence, committee agreed to recommend **ToR (Annexure-3)** 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. The Project Proponent shall carry out geological stability study along with detailed flora and fauna investigation by subject specialist. The Project Proponent shall submit mitigation plan for avoiding the runoff and leaching of debris during the monsoon.

#### Proposal – 4

<b>Online proposal No.</b>	SIA/UK/INFRA2/425986/2023
<b>Name of the Project</b>	Proposal for existing Hot Mix Plant of 100 TPH under violation at Khata No. 426, Khasra no. 493 in Village - Khushalpur, Tehsil - Vikasnagar, District - Dehradun.
<b>Name &amp; Address of Proponent</b>	M/s Shri Ram Construction by Shri Anmol Chaudhary (Proprietor)
<b>Whether New/Expansion/Modernization Project</b>	Existing
<b>Total Plot Area</b>	0.3840 Ha.
<b>Project Category</b>	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/425986/2023 on dated 13<sup>th</sup> April, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for existing Hot Mix Plant of 100 TPH under violation. 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.

Neither the project proponent nor the consultant turned-up for the presentation on designated date and time beside this, they did not inform the reason for not attending the meeting. Hence, with the permission of the chair, the committee decided to reject the project.

(Shri S.S. Bist)  
Chairman, SEAC

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

(Dr. Ashutosh Gautam)  
Member, SEAC

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

(Shri Nitish Mani Tripathi)  
Member Secretary, SEAC  
(Attended Online)



- 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 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 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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Terms of Reference (ToR)**3(a): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS) PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT****A. STANDARD TERMS OF REFERENCE (TOR)**

- 1) Executive Summary
- 2) Introduction
  - i. Details of the EIA Consultant including NABET accreditation
  - ii. Information about the project proponent
  - iii. Importance and benefits of the project
- 3) Project Description
  - i. Cost of project and time of completion.
  - ii. Products with capacities for the proposed project.
  - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
  - iv. List of raw materials required and their source along with mode of transportation.
  - v. Other chemicals and materials required with quantities and storage capacities
  - vi. Details of Emission, effluents, hazardous waste generation and their management.
  - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
  - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
  - ix. Hazard identification and details of proposed safety systems.
  - x. Expansion/modernization proposals:
    - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing I existing operation of the project from SPCB shall be attached with the EIA-EMP report.
    - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.
- 4) Project Description
  - i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
  - ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
  - iii. Details w.r.t. option analysis for selection of site
  - iv. Co-ordinates (lat-long) of all four corners of the site.
  - v. Google map-Earth downloaded of the project site.
  - vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
  - vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
  - viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)







- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6) Environmental Status.

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan.

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be











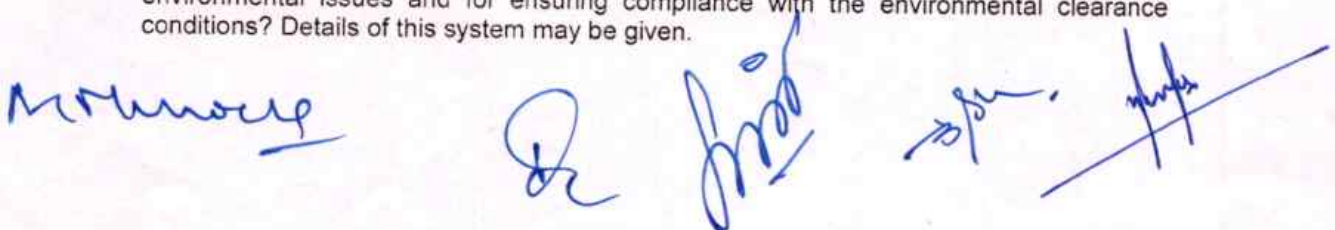
- assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
  - iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
  - iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
  - v. Details of stack emission and action plan for control of emissions to meet standards.
  - vi. Measures for fugitive emission control.
  - vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
  - viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
  - ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
  - x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
  - xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
  - xii. Action plan for post-project environmental monitoring shall be submitted.
  - xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

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- iv. Does the company have 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? This reporting mechanism shall be detailed in the EIA report
- 10) Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
- 11) Enterprise Social Commitment (ESC)
- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon
- 12) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 13) A tabular chart with index for point wise compliance of above TOR.

#### **B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)**

- 1) Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
- 2) Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
- 3) Details on installation/activation of opacity meters with recording with proper calibration system
- 4) Details on toxic metals including mercury, arsenic and fluoride emissions
- 5) Details on stack height requirement for integrated steel
- 6) Details on ash disposal and management -Non-ferrous metal
- 7) Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
- 8) Raw materials substitution or elimination
- 9) Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
- 10) Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium
- 11) Details on solvent recycling
- 12) Details on precious metals recovery
- 13) Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
- 14) Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
- 15) Trace metals Mercury, arsenic and fluoride emissions in the raw material.
- 16) Trace metals in waste material especially slag.
- 17) Plan for trace metal recovery
- 18) Trace metals in water

#### **C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT**

- 1) Iron ore/coal linkage documents along with the status of environmental clearance of iron ore and coal mines
- 2) Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact
- 3) For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
- 4) Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
- 5) Respirable Suspended particulate matter (RSPM) present in the ambient air must be analysed for source analysis - natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analysed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.

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- 6) All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
- 7) Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
- 8) Plan for slag utilization
- 9) Plan for utilization of energy in off gases (coke oven, blast furnace)
- 10) System of coke quenching adopted with justification

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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 25<sup>th</sup> July, 2018. **Data obtained from this DSR should be incorporated in the EIA Report for Impact Identification, Interpretation, Prediction, Carrying Capacity and Mitigation.**
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.



- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) 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

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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.

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- 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:-**

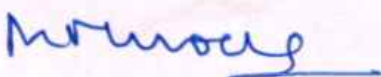
- a) Executive Summary of the EIA/EMP Report
- b) All documents to be properly referenced with index and continuous page numbering.
- c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- d) Project Proponent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

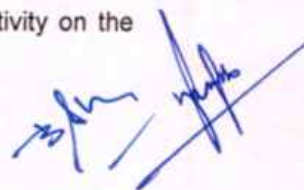
2) District Survey Report should be submitted as per the latest notification issued by MoEF&CC.

**Additional TOR:**

1. Project Proponent shall carry out detailed stability study of the project area as it is falling near to natural disaster prone Joshimath area.
2. Project Proponent shall carry out detailed investigation on impact of the mining activity on the tourist activity and the aquatic bio-diversity.









3. 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.
4. 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.
5. 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.
6. 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.
7. Original lab analysis report of the project proposal along with EIA report should be uploaded on Parivesh Portal.
8. Combined KML of all mines in a cluster should be submitted at the time of EIA.
9. The project proponent/Consultant should identify the core & buffer zone (2.5 km) of the mining site.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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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