

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

Letter No: 14 / SEAC
Dated: 21, March, 2023

The First Day of the 5th meeting of the Uttarakhand State Level Expert Appraisal Committee (SEAC) was held on 21st March, 2023 at the SEIAA/SEAC office Dehradun. The following were present at the meeting –

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

The meeting was presided by Shri S.S. Bist. The meeting proceeded as per the agenda with permission of the chair. It was noted that proposals, for the meeting, being considered for the appraisal includes Construction, Industrial, Mining (R.B.M/Soapstone) 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/IND1/414235/2023
Name of the Project	Proposal for establishment of Coated Aluminum foil/Paper/Al.Foil Lamination Printing along with 300 KVA DG Set at Khasra No 1/1/1/Min & 88/1359, Plot no 4, SARA Industrial Estate, Mauza Central Hope Town Pargana Pachwadun, Tehsil- Vikasnagar, Dist- Dehradun.
Name & Address of Proponent	M/s Foil Nest Pvt Ltd by Shri Mohit Bhargaw (Partner)
Whether New/Expansion/Modernization Project	New
Total Plot Area	3369.00 m ²
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/IND1/414235/2023 on dated 12th February, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for establishment of Coated Aluminum foil/Paper/Al.Foil Lamination Printing along with 300 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 Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator.** The details of the project are given below:-

S.No	Parameters	Description
1.	Products and quantity	Products: Coated and Laminated Aluminum foil (converted foil) Quantity: ❖ Aluminum Foil (Blister/strip): 4.0 Lakh/month ❖ Aluminum Foil printing: 0.50 Lakh kg/month ❖ Paper & Aluminum Foil lamination & printing: 0.50 Lakh kg/month
2.	Estimated Project Cost	Rs. 14.94 Crore
3.	Total Plot Area	3369.0 sqm
4.	Proposed Green Area	Ground Coverage: 1392.62 sqm Buildup Area: 2733.13 sqm
5.	Proposed Green Area	10% of the area

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[Signatures]

6.	Fresh Water Consumption	3.0 KLD
7.	Fresh Water Source	Ground Water (Bore well)
8.	Power Demand	350 KVA
9.	Power back up	300 KVA 20 KVA solar energy on rooftop
10.	Wastewater Management	1.5 KLD recycled use in flushing and plantation
11.	Steam and heating system	-
12.	Fuel Consumption	-

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	1392.62 sqm
2.	Road and Paved area	1288.25 sqm
3.	Parking area	308.41 sqm
4.	Green Area	336.09 Sqm (10% of the Total area)
5.	Switchyard [OTS]	43.63 sqm
6.	Future Expansion Area	0
	Total Plot Area	3369.00 sqm

Raw material details:

S.No	Major Raw Material	Avg. consumption	Source	Mode of Transport
1.	Al. Foil 20825 mic.	199732	❖ M/S Hindalco, Mumbai	Road
2.	Al. Foil 30 & 40 mic.	152780	❖ M/S Raviraj Foils, Ahmedabad	
3.	LDPE 38 micron	57208		
4.	VMCH Powder	11470.8	❖ M/S Amco India Ltd, Noida, UP	
5.	Ethyl Acetate	27304		
6.	Methyl Ethyl Keton	3186	❖ M/S RS Foils, Vadodara	
7.	Acetone,	2476	❖ M/S Jindal Aluminum Foils, Kolkata	
8.	Butyl Acetate,	496		
9.	Ethyl Alcohol,	24230		
10.	Shallac Flakes	250		

Domestic Water Demand and Effluent Generation:

S.No.	Uses	Population / area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	63	30.00	1.890	1.30
2	Flushing water	63	15.00	0.940	0.50
3	Canteen Facility	63	10.0	0.630	0.30
4	Housekeeping	-	-	0.480	0.30
5	Gardening/washing/land scaping	300 sqm	2 lit/sqm	0.950	-
	Total			4.900	2.40

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	Utilization/Disposal
1	Process waste	1.0 MTA	Sold to authorized recycler
2	Spent solvent distillation residue [Cat 20.3]	0.01MTA	Will be send to TSDF (Bharat Oil & Waste Management)

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3	ETP sludge [Category 35.3]	-	-
4	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 35.3]	0.5 MTA	Will be send to TSDF (Bharat Oil & Waste Management)
5	Used Oil [Category 5.1]	0.10 MTA	Recyclable. Will be sold to authorized recycler

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 install ETP & VOC scrubbing system.
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through reputed NGO or through any Govt. Organization.
- Project Proponent shall not manufacture aluminum foil, rather the project proponent will modify the aluminum foil as per requirement.
- 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.

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- 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 – 2

Online proposal No.	SIA/UK/IND3/420264/2023
Name of the Project	Proposed manufacturing of Pharmaceutical Products at Plot No.- F-57, Selaqui Industrial Area, Tehsil- Vikasnagar, Dist- Dehradun.
Name & Address of Proponent	M/s Uthika Laboratories Pvt. Ltd. by Shri Manna Jha (Director)
Whether New/Expansion/Modernization Project	New
Total Plot Area	800.00 m ²
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/IND3/420264/2023 on dated 28th February, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed manufacturing of Pharmaceutical Products. 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), Director.** The details of the project are as follows:-

S.No	Parameters	Description			
1.	Products and quantity	Tablets (Non Beta products like Anti Inflammatory, Analgesic, Anti Diabetic, Anti Hypertensive, Gastro)	60 TPA		
		Capsules (Non Beta products like PPI (Gastro), Neuro, Multivitamins and Multi-minerals)	40 TPA		
2.	Estimated Project Cost	7.50 Crore			
3.	Total Plot Area	800m ²			
4.	Proposed Green Area	200 sqm			
5.	Proposed Green Area	200 sqm			
6.	Fresh Water Consumption	7 KLD			
7.	Fresh Water Source	Uttarakhand JalSansthan			
8.	Power Demand	100 KVA			
9.	Power back up	125 K.V.A. x 1no			
10.	Wastewater Management	Use of Water	Water requirement	Waste water generation	Mode of Disposal
		Process	5.0 KLD	3.0KLD	ETP

Manna Jha

Shri Deepak Pandey

Shri Manna Jha

Shri Manna Jha

Shri Manna Jha

		Domestic	2.0 KLD	1.8 KLD	Septic tank and soak pit
11.	Steam and heating system	N.A.			
12.	Fuel Consumption	HSD15ltr/hr for D.G. Set			

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	423.26sqm
2.	Road and Paved area	34.04 sqm
3.	Parking area	142.7 sqm
4.	Green Area	200sqm
5.	Switchyard [OTS]	Nil
6.	Future Expansion Area	N.A.
	Total Plot Area	800 sqm

Raw material details:

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	Bulk Drug	900kg/month	Open Source	Road
2.	API	900kg/month	Open Source	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]	35	45	1.6	0.8
2	Flushing water	35	---	0.4	0.3
3	Canteen Facility	---	---	---	---
4	Housekeeping	423.26 sqm	1.25ltr/sqm	0.53	---
5	Gardening	200 sqm	6.25ltr/sqm	1.25	---

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	5.0 KLD	4.5 KLD
	Total	5.0 KLD	4.5 KLD

Solid waste details:

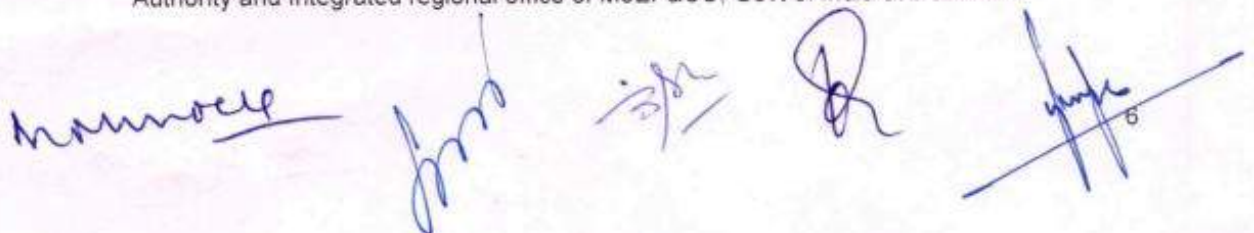
S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	ETP sludge [Category 35.3]	0.2 MTA	Authorized TSDF
2	Expired finished product and raw materials[Category 28.4]	0.3 MTA	Authorized TSDF
3	Used Oil [Category 5.1]	0.1 MTA	Authorized TSDF

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 reputed NGO or through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- 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.



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

Proposal - 3

Online proposal No.	SIA/UK/IND3/420319/2023
Name of the Project	Proposed manufacturing of Pharmaceutical Products at Khasra No. 179, Plot No. B, Mauza Charba, Near Langha Road, Tehsil-Vikasnagar, Dist- Dehradun.
Name & Address of Proponent	M/s Octis Healthcare Pvt. Ltd. by Shri Mayank Raj Saini (Director)
Whether New/Expansion/Modernization Project	New
Total Plot Area	660.35 m ²
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/IND3/420319/2023 on dated 28th February, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed manufacturing of Pharmaceutical Products. 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.

During presentation the project proponent informed that a fresh proposal with a new firm name and some minor changes will be submitted by the project proponent. The project proponent requested to withdraw the present application. A request for the same has been submitted by the project proponent vide his letter dated- 21.03.2023. Based on the request of the project proponent the committee decided to allow the withdrawal of the proposal.

Proposal - 4

Online proposal No.	SIA/UK/INFRA2/406044/2022
Name of the Project	Proposal for Proposed Hotel Project at Khasra No. (Old 67/2) New no 123 Kha, 124 Ka, 125, 146 Ga Mohabewala, Saharanpur Road, Dehradun
Name & Address of Proponent	M/s The Shiva Continental by Shri Shiv Sharan (Partner)
Whether New/Expansion Project	New
Total Plot Area	2361.36 m ²
Total Built up Area	3421.01 m ²
Project Category	8(a) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/406044/2022 on dated 14th November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Hotel Project. The proponent has submitted detailed project related information in Form 1, Form 1-A, Conceptual Plan & 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), Director.** The details of the project are as follows:-

S.No	Parameters	Description
1.	Plot Area	2361.36 sqm
2.	Proposed Built Up Area	3421.01 sqm
3.	Total no of Rooms	31 nos
4.	Total EWS Unit	Not Applicable
5.	Max Height of Building (Upto Terrace)	24mtr
6.	Max No of Floors	05 nos
7.	Cost of Project	4.95 Crore
8.	Expected Population	62 + 32 = 94 nos
9.	Proposed Ground Coverage Area	944 sqm
10.	Proposed FAR Area	1.90
11.	Total Water Requirement	19KLD
12.	Fresh water requirement	19KLD
13.	Waste water Generation	15KLD

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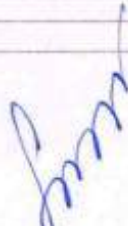



14.	Proposed STP Capacity	20 KLD
15.	No of RWH of Pits Proposed	02 nos
16.	Total Proposed Parking	57.09 E.C.S.
17.	Proposed Green Area	590sqm (25%)
18.	Municipal Solid Waste Generation	18kg/day
19.	Total Power Requirement	200KVA
20.	DG set backup	250KVA x 1no

Salient features details:

S.No	Parameters	Description
GENERAL		
1.	Plot Area	2361.36 sqm
2.	Proposed Built Up Area	3421.01 sqm
3.	Number of Building Blocks	01nos
4.	Total no of Rooms	31 nos
5.	Max Height of Building (Upto Terrace)	24mtr
6.	Max No of Floors	06 nos
7.	Cost of Project	4.95 Crore
8.	Expected Population	62 + 32 = 94 nos
9.	Permissible Ground Coverage Area (@40%)	944 sqm
10.	Proposed Ground Coverage Area	944 sqm
11.	Permissible FAR Area	2
12.	Proposed FAR Area	1.90
13.	Proposed NoN FAR Area	1417 sqm
14.	Proposed Built Up Area	3421.01 sqm
WATER		
15.	Total Water Requirement	19KLD
16.	Fresh water requirement	15KLD
17.	Waste water Generation	15KLD
18.	Proposed STP Capacity	20 KLD
19.	Treated Water Available for Reuse	12 KLD
20.	Recycled Water	12 KLD
21.	Surplus Treated water	0
RAIN WATER HARVESTING		
22.	Rain Water Harvesting Potential	5.09cum
23.	No of RWH of Pits Proposed	02 nos
PARKING		
24.	Total Parking Required as per building Bye Laws	56 E.C.S
25.	Total Proposed Parking	57.09 E.C.S
26.	Proposed Surface Parking	35 E.C.S
27.	Proposed Stilt/Podium Parking	22.22 E.C.S
28.	Proposed Basements Parking	21.71 E.C.S
GREEN AREAS		
29.	Required Green Area	590sqm
30.	Proposed Green Area (15.14% of Plot Area) (360 numbers of tree proposed to planted)	357.50 sqm
WASTE GENERATION		
31.	Municipal Solid Waste Generation	18kg/day
32.	Bio Degradable waste	12kg /day
33.	Quantity of Sludge Generated from STP	30kg/month
POWER		
34.	Total Power Requirement	200KVA
35.	DG set backup	250KVA x 1no

Land use details:

S.No	Parameters	Description
1.	Ground Coverage Area	694.47 sqm
2.	Green Area	590 sqm
3.	Road/Paved Parking Area	500 sqm
4.	Other Open Area	1076.01sqm
5.	Total Plot Area	2361.36 sqm

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

- In case of any change in the proposed layout plan of the Hotel drawing the Project Proponent shall inform the SEIAA and shall seek modified Environmental Clearance.
- The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- Construction site shall be adequately barricaded before the construction begins dust smoke and other air pollution measures shall be provided for the building as well as the site, these measures shall include screens for the building under construction continuous dust/wind breaking walls around the site (at least 3 meters high).
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- The structural design and other aspects of the building shall comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies
- The building plan and structural design shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- Notification GSR 94(E) dated 25-10-2018 of MOEF&CC regarding mandatory implementation of Dust Mitigation Measures for construction and Demolition activity for projects requiring Environmental Clearance shall be complied with.
- The disposal of muck should adhere to standards of general safety and health concerns of local people and also it should have no adverse effect on the neighbouring community.
- DG Sets shall be used only as backup power. The capacity of DG sets shall not exceed capacity of 1 DG Set 200 KVA and it should have stack height complying with CPCB norms.
- Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices/sensor based control. Dual plumbing system shall be installed separately for fresh water and waste water.
- The use of glass may be reduced by upto 40 percent to reduce the electricity consumption and load on air conditioning. If necessary then use of high quality double glass may be encouraged with special reflective coating in windows.
- The use of LED and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 40 percent of the total power requirement after completion of construction unit shall be met from solar energy.
- Rainwater harvesting for roof top and surface run off should be ensured as per the plan submitted. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles. The bore well for rain water recharging should be kept at 5 metres above the highest ground water table.
- One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material has to be used during plantation as per standards of State Forest Department.
- Acoustic enclosures shall be provided with all construction machineries and DG sets on site complying with Noise Levels of CPCB standards. The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UKPCB.
- The construction debris may be used for land fill or disposed through authorized vendors. The Hazardous substances generated during construction activity shall be disposed off as required by Hazardous Waste (Management, Handling) Rules, 1989 (as amended from time to time). Efforts shall be maximized for use of low toxicity substitutes and low VOC materials.
- The vehicles used at the construction site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.
- Adequate drinking water and sanitation facility has to be provided on site for the workforce. Provision should be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.

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- The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- The entire site after construction activities should carry signages of garbage collection points, environment awareness etc.
- The proponent shall ensure safety measures against river meandering. It shall also undertake river meandering study in the locality and then construct suitable protective structures for river training
- Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- All workers working at the construction site and involved in loading, unloading carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- A first aid room shall be provided in the project both during construction and operations of the project.
- The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent the record shall be submitted to the Regional office, MoEF&CC, 25 Subhash Road, Dehradun and SEIAA Uttarakhand along with six monthly monitoring reports.
- On site treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert a report in this regard shall.
- A STP of capacity 20 KLD shall be installed for treating waste water upto tertiary level. Sewage Treatment Plant shall be complying with parameters of CPCB/UKPCB guidelines. Treated water should be used for flushing, green belt development, road washing, DG cooling and other miscellaneous purposes.
- The excess treated waste water may be transported through tankers to adjoining construction sites or industrial areas as the demand arises.
- The installation of sewage treatment plant should be certified by an independent expert and a report in this regard should be submitted to the UKPCB. Necessary measures should be made to mitigate the odour problem from STP.
- Guidelines of Municipal Solid Waste (Management & Handling) Rules, 2000 (as amended from time to time) should be followed for disposal of solid waste. Two bin collection system for bio degradable and non bio degradable waste should be adopted. Bio degradable waste shall be sent to composting pit and non biodegradable/inert waste disposed off through authorized recyclers. STP sludge shall be dried and used as organic manure.
- DG sets shall be used only in emergency purpose. The use of solar energy and inverter shall be ensured and maximized as backup power.
- Adequate parking space shall be develop for staff and guests.
- Proper restroom and toilets shall be provided for service workers, drivers & accompanying staff, if any
- All directions of Fire Department shall be complied.
- Provisions shall be made for the integration of Solar Power System.
- The project proponent shall submit half yearly compliance report of stipulated conditions of Environment Clearance in soft copy through PARIVESH PORTAL given link: <https://parivesh.nic.in>. Yearly monitoring of ground water table and quality should be carried out and should be submitted to SEIAA and UKPCB, Uttarakhand.
- No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)
- The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, Hazardous and other Wastes (Management and Tranboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
- Project Proponent will operate on the principle of zero liquid discharge.
- Project Proponent will submit water balance chart especially in relation to maintaining zero liquid discharge.
- Project Proponent will adopt the green building concept.







- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- Under CER, Project Proponent apart from other activities, will also install Solar lights and distribute forest fire fighting equipments to the local groups (Mahila mangal dal/ Yuvak mangal dal/ Vanpanchayat) in the adjoining villages close to forest areas in consultation with local Forest Officials. The project proponent will also strengthen the nearest government primary school in terms of infrastructure and other desired facilities.
- The proponent submitted details of the cost incurred on the project so far to be Rs 47,95,357.00 (Forty Seven Lakh Ninety Five Thousand Three Hundred Fifty Seven).
- Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date, thus the total amount of the penalty is calculated to be Rs 23,977.00 (Twenty Three Thousand Nine Hundred Seventy Seven Only). This non-refundable amount has been deposited by the project proponent vide DD No- 027153 dated- 18.03.2023 of Canara Bank in the account of State Pollution Control Board.
- The Project Proponent has also submitted the budgetary allocation pertaining to remediation plan and natural and community resource augmentation plan which is as follows-

S.No.	Description	Amount(Rs.)
1	Cost estimate for natural resource augmentation plan	50,000/-
2	Community resource augmentation plan	62, 500/-
	Total (Rs.)	1,12,500/-

The Project Proponent has submitted a bank guarantee equivalent to the above amount with the State Pollution Control Board vide their letter dated- 20.03.2023. 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.

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

Proposal – 5

Online proposal No.	SIA/UK/INFRA2/418785/202
Name of the Project	Proposal for Proposed manufacturing of Pharmaceutical Formulations at Plot No. E-9, SIDCUL Industrial Area, Selaqui, Tehsil- Vikasnagar, Dist- Dehradun.
Name & Address of Proponent	M/s Parb Pharmaceuticals Private Limited by Shri Konic Goyal (Director)
Whether New/Expansion/ Modernization Project	New
Total Plot Area	1800.00 m ²
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/418785/202 on dated 17th February, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed manufacturing of Pharmaceutical Formulations. 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 Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator.** The details of the project are given below:-

S.No	Parameters	Description
1.	Products and quantity	<p>Products : Pharmaceutical formulation (Tablets, Syrup)</p> <p>Quantity:</p> <p>❖ Tablets- 540 Lakh Nos/month (Paracetamol, Aceclofenac + Paracetamol, Diclofenac + Paracetamol, Metaformin, Telmisartan, Telmisartan + Hydrochlorothiazide)</p>

		❖ Syrup- 26 KL/month (Paracetamol syrup, Dextromethorphan + Phenylephane Hcl + CPM, Paracetamol + Phenylephane Hcl + Cetirizine syrup)
2.	Estimated Project Cost	Rs. 495.00 Lakh
3.	Total Plot Area	1800 sqm
4.	Proposed Green Area	Ground Coverage: 1080 sqm Buildup Area: 2698.665 sqm
5.	Proposed Green Area	10% of the area
6.	Fresh Water Consumption	5.0 KLD
7.	Fresh Water Source	Ground Water (Bore well)
8.	Power Demand	250 KVA
9.	Power back up	82.5 KVA DG Set 20 KVA solar energy on rooftop
10.	Wastewater Management	2.4 KLD recycled use in flushing and plantation
11.	Steam and heating system	-
12.	Fuel Consumption	-

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	1080 sqm
2.	Road and Paved area	311.74 sqm
3.	Parking area	216.00 sqm
4.	Green Area	192.26 sqm (11% of the Total area)
5.	Switchyard [OTS]	-
6.	Future Expansion Area	-
	Total Plot Area	1800.00 sqm

Raw material details:

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	Paracetamol IP	6750 Kg	Delhi, and Ahmadabad	Road
2.	Starch IP	27000 Kg		
3.	Talcum IP	2700 Kg		

Domestic Water Demand and Effluent Generation:

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	35	30.00	1.05	0.84
2	Flushing water	35	15.00	0.525	0.42
3	Canteen Facility	-	-	-	-
4	Housekeeping	-	-	0.425	0.24
5	Gardening	192.26 sqm	2 lit/sqm	0.384	-
	Total			2.00	1.50

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	3.00	1.50
	Total	3.00	1.50

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Solid waste details:

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Process Residue and wastes [Category 28.1]	1.5 MTA	sold to authorized recycler
2	Off- Specification products [Category 28.4]	0.01MTA	Will be send to TSDF (Bharat Oil & Waste Management)
3	ETP sludge [Category 35.3]	1.0 TPA	Will be send to TSDF (Bharat Oil & Waste Management) -
4	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 33.1]	0.5 MTA	Will be send to TSDF (Bharat Oil & Waste Management)
5	Used Oil [Category 5.1]	0.10 MTA	Recyclable. Will be sold to authorized recycler
6	Date-expired products [Category 28.5]	0.01MTA	Will be send to TSDF (Bharat Oil & Waste Management)

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 reputed NGO or through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- 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

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- 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.

Consideration/Reconsideration of Proposals For Environmental Clearance
(Extension/Amendment/Corrigendum)

Proposal – 1

Online proposal No.	SIA/UK/IND3/296439/2023
Name of the Project	Amendment in Existing E.C. for addition of Thermic Fluid Heater and Proposed Boiler on existing manufacturing unit of Paper Chemical at Plot No. 7G, Sector 9, Khasra No. 210, IIE, SIDCUL, Phoolbagh, Rudrapur, Pantnagar, Dist- U.S. Nagar.
Name & Address of Proponent	M/s IVAX Paper Chemicals Limited. by Shri Sharad Kumar Nawalgaria (Director)
Whether New/Expansion/Modernization Project	Modernization
Total Plot Area	4560.00 m ²
Project Category	B2 & 5(f) Synthetic Organic Chemical enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/IND3/296439/2023 on dated 15th January, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Amendment in Existing E.C. for addition of Thermic Fluid Heater and Proposed Boiler on existing manufacturing unit of Paper Chemical. 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 Rian Enviro Pvt. Ltd. and project was presented by Shri Sumit Verma, Functional Area Expert (FAE).**

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-

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S.No	Parameters	Description		
1.	Products and quantity	S. No.	Products	Capacity (MTPA)
		1.	AKD Wax Emulsion	12000
		2.	Starch Based Products	600
		3.	Rosin Based Products	2400
		Total		15000
2.	Estimated Project Cost	Rs. 1100 Lacs		
3.	Total Plot Area	4560.0 Sq.m		
4.	Proposed Green Area	1390.09 Sq.m		
5.	Proposed Green Area	1390.09 Sq.m		
6.	Fresh Water Consumption	24.56 KL		
7.	Fresh Water Source	Borewell		
8.	Power Demand	440 KVA		
9.	Power back up	250 KVA		
10.	Wastewater Management	1.0 KLD wastewater generated from Industrial Process due to cleaning of reactors & Miscellaneous, which will be reused in process and green belt development. 4.0 KLD water will be reuse in Boiler. Domestic Activities: 0.4 KLD goes to septic tank.		
11.	Steam and heating system	Thermic Fluid Heater (Capacity – 4 Lac Kcal / Hr.). Boiler (Capacity – 600 Kg/Hr)		
12.	Fuel Consumption	HSD/Natural Gas		

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	1091.548 Sq.m.
2.	Road and Paved area	1066.08 Sq.m.
3.	Parking area	1012.282 Sq.m.
4.	Green Area	1390.09 Sq.m.
5.	Switchyard [OTS]	-
6.	Future Expansion Area	-
	Total Plot Area	4560.0 Sq.m.

Raw material details:

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	AKD wax	140 MT	Imported	By Road
2.	Starch	25 MT	Indigenous	By Road
3.	Gum Rosin	65 MT	Indigenous/Imported	By Road
4.	Maleic Anhydride	5.0 MT	Imported	By Road
5.	Poly Aluminium Chloride (PAC)	70 MT	Indigenous	By Road
6.	Caustic Lye	15 MT	Indigenous	By Road
7.	Other Chemicals & Additives	100 MT	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]	17	30	0.51	Septic tank
2	Flushing water	-	-	-	-
3	Canteen Facility	-	-	-	-
4	Housekeeping	-	-	-	-
5	Gardening	1390.09	-	2.1	-
	Total	17	30	2.61	-

Industrial Water Demand and Effluent Generation:

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Industrial Process	21.66	0.66
2	Boiler	4.8	4.0 (Reuse in boiler)

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3	Miscellaneous Purpose	0.5	0.45
	Total	-	-

Solid waste details:

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Expired off Speck products [Category 29.3]	30.0 MT/Annum	Collection, Storage Transportation & Disposal at Incineration Unit
2	ETP sludge [Category 35.3]	1.0 MT/Annum	Handed over to authorized recyclers/re-processors
3	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 33.1]	1000 Nos./Annum	Handed over to authorized recyclers/re-processors
4	Used Oil [Category 5.1]	0.5 KL/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-

- 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.
- 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 earthen drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water.
- 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.
- The project proponent has submitted application for amendment in earlier E.C No- 166-05(16)/2020 dated- 28.09.2020 issued from SEIAA, Uttarakahd for Thermic Fluid Heater (Capacity – 4 Lac Kcal / Hr.) & Boiler (Capacity – 600 Kg/Hr).

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

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

Proposal – 1

Online proposal No.	SIA/UK/MIN/418022/2023
Site Details	Proposed Extraction of Soapstone at Village - Baitouli, Tehsil & District- Bageshwar.
Name & Address of Proponent	Shri Rahul Dafouti (Partner) S/o Shri Kunwar Singh & Shri Kundan Latwal (Partner) S/o Shri Ganga Singh Village-Ghingartola, Post-Ghingartola, District- Bageshwar
Coordinates	Latitude- 29°49'8.13"N to 29°49'9.49"N Longitude- 79°51'4.25"E to 79°51'4.25"E
Mining Lease Area	2.980 Ha.
Category	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006. But as per notification O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018, the project has been screened in to category B1 (cluster formation of >5 Ha with in 500 meter periphery of concerned mine).

The project was submitted vide proposal no SIA/UK/MIN/418022/2023 on dated 13th February, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Cognizance Research India Pvt. Ltd. and project was presented by Ms. Pooja Mamgain, Functional Area Expert (FAE), Director.**

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

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Proposal – 2

Online proposal No.	SIA/UK/MIN/411117/2022
Site Details	Proposed Extraction of Soapstone at Village - Gurna, Tehsil & District- Bageshwar.
Name & Address of Proponent	Shri Ashok Pal (Partner) S/o Shri Ramesh Pal R/o- Ambika Vihar, Haldwani, District- Nainital & Shri Prakash Bankoti (Partner) S/o Shri Arjun Singh Bankoti R/o Gurna, Tehsil & District – Bageshwar.
Coordinates	Latitude- 29°47' 45.03"N to 29°47'40.57"N Longitude- 79°51'07.43"E to 79°51'06.25"E
Mining Lease Area	6.570 Ha.
Category	B1 & 1(a) enlisted in project /activity as per EIA Notification, 2006.

The project was submitted vide proposal no SIA/UK/MIN/411117/2022 on dated 17th December, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has submitted detailed project related 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 Ms. Pooja Mangain, Functional Area Expert (FAE), Director.**

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

Proposal – 3

Online proposal No.	SIA/UK/IND2/418303/2023
Name of the Project	Proposed Expansion of existing sugar Unit from 6250 TCD to 8,000 TCD without Change in existing Co-gen power capacity- 26.0 MW within existing premises at Khasra No. 1, 89, 90 in Village: Dahiyaki, Khasra No. 38, 39, 41, 42, 49, 56, 58, 59, 60/1, 61M, 62, 63M, 64M, 65, 66M, 67, 70M, 71M, 72/1, 74, 75, 76, 77 in Village: Khundi, Khasra No. 107, 110, 111, 118, 106/1, 108, 109 in Village-Kulchandi, Khasra No. 349 in Village- Mundiaki, Tehsil- Roorkee & District- Haridwar.
Name & Address of Proponent	M/s Uttam Sugar Mills Limited (Unit: Libberheri, Division: Sugar)
Whether New/Expansion/ Modernization Project	Expansion
Total Plot Area	22.40 Ha (55.35 Acre)
Project Category	B1 & 5(j) Sugar Industry enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/IND2/418303/2023 on dated 21st February, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Expansion of existing sugar Unit from 6250 TCD to 8,000 TCD without Change in existing Co-gen power capacity- 26.0 MW within existing premises. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Environmental and Technical Research Centre and project was presented by Shri Anubhav Singh, EIA Coordinator.**

Hence, committee agreed to recommend **ToR (Annexure-5)** 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.

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Proposal – 4

Online proposal No.	SIA/UK/MIN/404890/2022
Site Details	Proposed Extraction of Soapstone at Village- Tuper Tok Binsar, Tehsil & District-Bageshwar.
Name & Address of Proponent	M/s Jai Shree Hari Soapstone Chirang by Shri Rajendra Singh Chauhan & Shri Vijendra Singh (Partner), R/o – Tuper Tok Binsar, Tehsil & District- Bageshwar.
Coordinates	Latitude- 29°52'11.82"N to 29°52'13.51"N Longitude- 79°48'47.23"E to 79°48'48.12"E
Mining Lease Area	3.594 Ha.
Category	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006. But as per notification O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018, the project has been screened in to category B1 (cluster formation of >5 Ha with in 500 meter periphery of concerned mine).

The project was submitted vide proposal no SIA/UK/MIN/404890/2022 on dated 3rd November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Cognizance Research India Pvt. Ltd. and project was presented by Ms. Pooja Mamgain, Functional Area Expert (FAE), Director.**

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

Proposal – 5

Online proposal No.	SIA/UK/MIN/405014/2022
Site Details	Proposed Extraction of Soapstone at Village - Bhairu Chaubatta Tok Tiladi, Simayal, Karuli Tok Rikhad, Tehsil & District- Bageshwar.
Name & Address of Proponent	Shri Basant Ballabh Pathak S/o Shri Shankar Dutt Pathak Address-R/o-Village- Bhitalgaon, Tehsil & Distt- Bageshwar.
Coordinates	Latitude- 29°51'55.26"N to 29°52'6.39"N Longitude- 79°50'34.01"E to 79°50'34.45"E
Mining Lease Area	4.227 Ha.
Category	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006. But as per notification O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018, the project has been screened in to category B1 (cluster formation of >5 Ha with in 500 meter periphery of concerned mine).

The project was submitted vide proposal no SIA/UK/MIN/405014/2022 on dated 3rd November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Cognizance Research India Pvt. Ltd. and project was presented by Ms. Pooja Mamgain, Functional Area Expert (FAE), Director.**

Hence, committee agreed to recommend **ToR (Annexure-4)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife

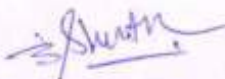
(Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.



(Shri S.S. Bist)
Chairman, SEAC



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



(Dr. Ashutosh Gautam)
Member, SEAC

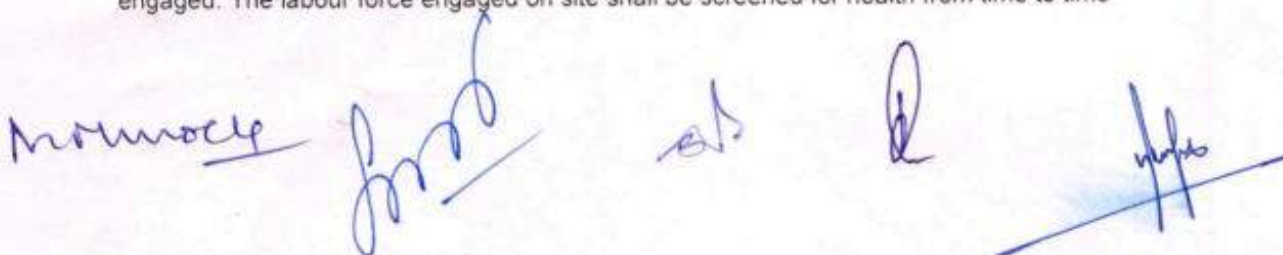


(Dr. B.P. Purohit)
Member, SEAC



(Shri Nitish Mani Tripathi)
Secretary, SEAC

- 1) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- 2) The building plan and structural design of the unit shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- 3) No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 4) The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- 5) During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- 6) The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 7) All stacking and loading areas should be provided with proper 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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Annexure-2

- 1.1. Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- 1.2. No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 1.3. The Site Lay out plan and Building plan should have been approved by the concerned Department/Agency of the State Government before work start up at the construction site. The structural design and other aspects of the building shall comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies
- 1.4. The building plan and structural design shall comply with requirements of Seismic Zone – IV as outlined in National Building Code
- 1.5. The topsoil excavated during construction work shall be used for backfilling/landscape development/green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority
- 1.6. The onsite levelling and dressing should ensure minimal vegetation clearing and soil erosion. If necessary organic mulching should be done to avoid soil erosion. There shall not be any felling of green trees for the purpose of this project
- 1.7. The disposal of muck should adhere to standards of general safety and health concerns of local people and also it should have no adverse effect on the neighbouring community. The muck shall not be disposed off in adjoining forest areas without meeting requirements of Forest (Conservation) Act, 1980.
- 1.8. Temporary storage units should be erected in the construction site and transportation of construction materials shall be restricted to non-peak hours. The dust pollution shall be suppressed by regular water sprinkling
- 1.9. The use of ready mixed concrete/premised concrete, curing agents and other such practices shall be adopted to minimize use of water on site
- 1.10. All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as such materials leach into ground water.
- 1.11. The water requirement during construction phase shall be met from regular water supply/private tankers. There shall be no extraction of ground water and water requirement for the project in operational phase shall be met entirely from private tankers. Construction work requiring water shall not be carried out during 30th April to 15th June in the year
- 1.12. The soil and groundwater samples shall be tested from accredited agencies and it shall be ensured that they comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 1.13. DG Sets shall be used only as backup power. The capacity of DG sets shall not exceed capacity 250 KVA and it should have stack height complying with CPCB norms.
- 1.14. Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices/sensor based control. Dual plumbing system shall be installed separately for fresh water and waste water.
- 1.15. The use of glass may be reduced by upto 40 percent to reduce the electricity consumption and load on air conditioning. If necessary then use of high quality double glass may be encouraged with special reflective coating in windows.
- 1.16. The use of LED and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 10 percent of the total power requirement after completion of construction unit shall be met from solar energy.
- 1.17. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, 2006 which is proposed to be mandatory for all air-conditioned spaces while non air-conditioned spaces should have appropriate thermal insulation materials. The U values of the roof, external wall and fenestration shall also meet specifications of ECBC, 2006.



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

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

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

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

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

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

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

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

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

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

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

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

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

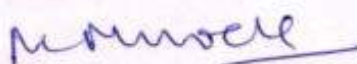
1.31. Guidelines of Municipal Solid Waste (Management & Handling) Rules, 2000 (as amended from time to time) should be followed for disposal of solid waste. Two bin collection system for bio degradable and non bio degradable waste should be adopted. Bio degradable waste shall be sent to composting pit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

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


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

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

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







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

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- 4) 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.
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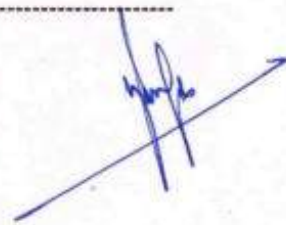
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- 19) Training shall be imparted to all employees on safety and health aspects of handling of chemicals. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 20) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- 21) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
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- 24) 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.
- 25) Solar panel/energy should be encouraged/installed in the premises.
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- 27) 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.
- 28) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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Terms of Reference (ToR)

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

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

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

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

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee. The above reports should also match with the latest District Survey Report (DSR) notification dated 25th July, 2018. **Data obtained from this DSR should be incorporated in the EIA Report for Impact Identification, Interpretation, Prediction, Carrying Capacity and Mitigation.**
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to



shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

- 22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification/diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

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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:-

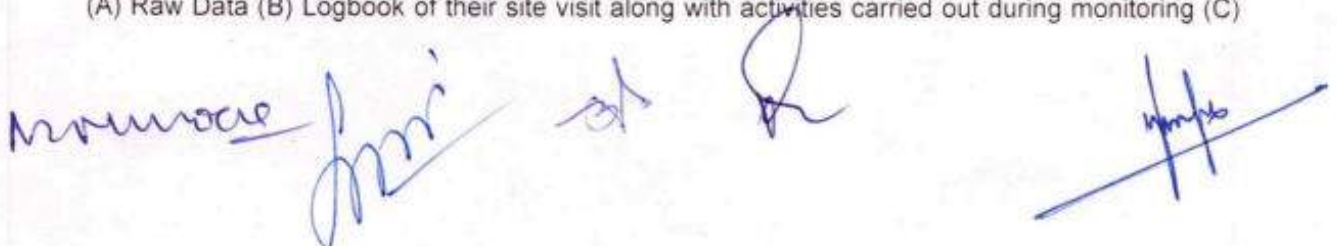
- a) Executive Summary of the EIA/EMP Report
- b) All documents to be properly referenced with index and continuous page numbering.
- c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- d) Project Proponent 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. To ensure proper monitoring, the project proponent/consultant should provide evidence in for of (A) Raw Data (B) Logbook of their site visit along with activities carried out during monitoring (C)



Real time photographs showing monitoring machine, public, lab person etc. Proprietor/proprietor representative should be present at the time of monitoring and monitoring should be conducted as per CPCB SOP/NABET/QCI guidelines. Lab responsible person should be present at the time of EIA presentation.

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

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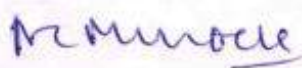
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Terms of Reference (TOR) for the preparation of EIA regarding the project as follows:

- 1) All pages of technical documents/EIA/EMP etc. should be signed by the consultant and project proponent both.
- 2) Copy of all analysis reports signed by analyst approved by NABL&MoEF& CC shall be annexed with EIA report and original analysis reports should be presented at the time of presentation.
- 3) MOU signed between the project proponent and the consultant should be submitted.
- 4) The ambient air monitoring/inland surface water monitoring be carried out when existing factory is fully operational and the monitoring report should be submitted with relevant supporting documents regarding its operational status.
- 5) Valid consent to operate (CTO) and authorization for the disposal of hazardous waste from UKPCB to existing unit should be submitted.
- 6) Public hearing shall be conducted as per EIA notification 2006 (as amended).
- 7) After submission of EIA report, a site shall be undertaken by the Members of SEAC for physical/spot verification of the project.
- 8) Results of waste water analysis before and after treatment should be submitted.
- 9) Detailed solid waste management system should be submitted.
- 10) Press mud analysis report should be submitted.
- 11) Executive summary.
- 12) Introduction:
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
- 13) 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 equipment's and machineries, process flow sheet (quantities) 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 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.
- 14) Site Details:
 - 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 topo sheet 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. Land use 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 5 km 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.

15) Forest and Wild life 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. Landuse 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.

16) Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM₁₀, PM_{2.5}, SO₂, NO_x, 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 NAAQM 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.

17) 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.

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- 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 convey or 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.

18) 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.

19) 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.
- 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.

20) 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.

21) 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.

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- 22) 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.
- 23) 'A tabular chart with index for point wise compliance of above TOR.
- 24) Complete process flow diagram describing each unit, its processes and operations in production of Sugar, along with material and energy and energy inputs and outputs (Material and Energy Balance).
- 25) Details on water balance including quantity of effluent generated, recycled and reused. Efforts to minimize effluent is charge and to maintain quality of receiving water body.
- 26) Details of effluent treatment plant, inlet and treated water quality with specific efficiency of each treatment unit in reduction in respect to fall concerned / regulated environmental parameters.
- 27) Number of working days of the sugar production unit.
- 28) Details of the use of steam from the boiler.
- 29) Details of proposed source – specific pollution control scheme and equipment to meet the national standard.
- 30) Collection, storage, handling and transportation of Molasses.
- 31) Collection, storage, handling of bagasse and press mud.
- 32) Fly ash management plan for coal based and bagasse based action plan.
- 33) Details on water quality parameters such as temperature, colour, pH, BOD , COD Total Kjeldhal Nitrogen, phosphate, Oil & Grease, Total Suspended Solid , Total Coliform bacteria etc.
- 34) Details on existing ambient air quality expected, stack and fugitive emissions for PM₁₀, PM_{2.5}, SO₂, NO_x, etc and evaluation of the adequacy of the proposed pollution control device to meet standard for point sources and to meet AAQ standards.

This is to request you to take further necessary action in matter as per provisions of Gazette Notification No. S.O. 1533(E) dated 14/09/2006, as amended. You are advised to submit the EIA/EMP for further consideration of the matter as per procedure laid down in the Gazette Notification SO 1533 (E) dated 14/09/2006 as amended. The matter will not be considered pending till your reply as above is received.

