State Level Expert Appraisal Committee, Uttarakhand
"GauradeviParyavaranBhawan, 3rdFloor,
46-B, I.T. Park, Sahastradhara Road, Dehradun"

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Letter No:32/SEAC
Dated: 17, August, 2023

The First day of the 12th meeting of the Uttarakhand State Level Expert Appraisal Committee (SEAC) was held on 16th August, 2023 at the SEIAA/SEAC office Dehradun. The following were present at the meeting –

1)	Shri Shailendra Singh Bist	Chairman
2)	Dr. Ashwani Kumar Minocha	Member
3)	Dr. AshutoshGautam	Member
4)	Dr.Basudev Prasad Purohit	Member
5)	Shri Nitish Mani Tripathi	Member 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 includesIndustrial, Construction, Mining (R.B.M/Soapstone) etc.The concernedrecognized environment consultants of the proponents made the presentations.

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

Proposal – 1

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

The project was submitted vide proposal no SIA/UK/IND3/435584/2023on dated 6th July,2023by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed proposal for manufacturing of Pharmaceutical Formulations unit. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Enviro Infra Solutions Pvt. Ltd. and project was presented by Shri Vinay Kumar Singh, EIA Coordinator &Shri Deepak Pandey, Functional Area Expert (FAE).** The details of the project are as follows:-

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

9.	Power back up	600 K.V.A. x 2nos			
10.	Wastewater Management	**Use of Water**	**Water requirement**	**Waste water generation**	**Mode of Disposal**
		Process	25KLD	10 KLD	ETP
		Domestic	20KLD	16KLD	STP
11.	Steam and heating system	Boiler of 850kg/hrx1 (Diesel) and Boiler of 300kg/hrx1 (Electric)			
12.	Fuel Consumption	HSD100ltr/hr for DG Set and HSD50Ltr/hr for Boiler			

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	702.00sqm
2.	Road and Paved area	441sqm
3.	Parking area	42.86 E.C.S.
4.	Green Area	190.66m^2
5.	Switchyard [OTS]	N.A.
6.	Future Expansion Area	N.A.
	Total Plot Area	1757.00m^2

Raw material details:

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	MedroxyProgesteron	5 kg	Open	By Road
2.	NandroloneDecanoate	2 kg	Open	By Road
3.	MethylergomatrineMakeate	0.5 kg	Open	By Road
4.	Progestrone	50 kg	Open	By Road
5.	CefiximeTrihydrate (Compacted)	3134 kg	Open	By Road
6.	Di Sodium Hydrogen Citrate	1221 kg	Open	By Road
7.	Dummy Granules 1	1450 kg	Open	By Road
8.	Glycerin (Glycerol)	1846 kg	Open	By Road
9.	Ground Nut Oil	708 Ltr	Open	By Road
10.	Iso Propyl Alcohol	3301 kg	Open	By Road
11.	Light Liquid Paraffin	1040 kg	Open	By Road
12.	Liquid Glucose	678 kg	Open	By Road
13.	Magaldrate	582kg	Open	By Road
14.	Methylene Chloride	4631 kg	Open	By Road
15.	Microcrystalline Cellulose (101)	1087 kg	Open	By Road
16.	Microcrystalline Cellulose- Ph-112	2563 kg	Open	By Road
17.	Paracetamol (Acetaminophen)	1318 kg	Open	By Road
18.	Propylene Glycol	2325 kg	Open	By Road
19.	Sodium Lauryl Ether Sulphate	8429 kg	Open	By Road
20.	Sorbitol Solution 70%	15943 kg	Open	By Road
21.	Starch	2698 kg	Open	By Road
22.	Sucralfate	745 kg	Open	By Road

Domestic Water Demand and Effluent Generation:

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	450 nos	30	13.5	11.5
2	Flushing water	450 nos	15	6.75	4.5
3	Canteen Facility	--	--	--	--
4	Housekeeping	L.S.	45	1.0	0.00
5	Gardening	190.66sqm	6.25ltr/sqm	1.19	--

Industrial Water Demand and Effluent Generation:

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process - Boiler Chiller	1.15	0.1
2	Cooling Tower make up	2.00	0.0
3	Laboratory	1.75	1.5
4	APC devices [Fume scrubber]	--	--

5	Rejects from Water Treatment	20.1	8.4
	Total	25.00	10.00

Solid waste details:

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

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

- Project Proponent shall not produce Beta lactum, Ceflosporin, Anti-Cancer drugs, Narcotics.
- Project Proponent shall install ETP & VOC scrubbing system.
- Project Proponent shall install Wet Scrubber, re-cycling pit as air pollution control device in his premises.
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- The gaseous emissions (SO_x, NO_x, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- The DG set shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time

- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.
- The proponent submitted details of the cost incurred on the project so far to be Rs 15,93,435.00 (Fifteen Lakh Ninety Three Thousand Four Hundred Thirty Five only).
- Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date, thus the total amount of the penalty is calculated to be Rs7,970.00 (Seven Thousand Nine Hundred Seventy Only). This non-refundable amount has been deposited by the project proponent vide DD No- 051111 dated- 02.08.2023 of Axis Bank Limited in the account of UttarakhandPollution Control Board.
- The Project Proponent has to submit the bank guarantee pertaining to remediation plan and natural and community resource augmentation plan of the amount 81,250.00 (Eighty OneThousand Two Hundred Fifty only) of which the Project Proponent has already submitted bank guarantee of Rs 32,500.00 (Thirty Two Thousand Five Hundred Only)vide Axis Bank Limited guarantee No-00930100000344 dated- 04.08.2023. The project proponent has to submit remaining bank guarantee of Rs. 48,750.00 (Forty Eight Thousand Seven Hundred Fifty Only) which he has ensured that it will be deposited within a month. This bank guarantee will be refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan

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

Proposal – 2

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

The project was submitted vide proposal no SIA/UK/IND3/435694/2023on dated 6th July, 2023by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed proposal for manufacturing of Pharmaceutical Formulations unit. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Enviro Infra Solutions Pvt. Ltd. and project was presented by Shri Vinay Kumar Singh, EIA Coordinator & Shri Deepak Pandey, Functional Area Expert (FAE).**The details of the project are as follows -

S.No	Parameters	Description			
1.	**Products and quantity per Annum**	Tablets			350 MTA
		Capsules			350 MTA
		Syrup			1750 MTA
		Eye Drop			40 MTA
		Ointment/Cream/Balm			350 MTA
		Lotion, Shampoo and Oil			1750 MTA
2.	Estimated Project Cost	1321.01 Lacs			
3.	Total Plot Area	568.49m^2			
4.	Proposed Green Area	52.69m^2			
5.	Proposed Green Area	52.69m^2			
6.	Fresh Water Consumption	15KLD			
7.	Fresh Water Source	SIDCUL Water Supply			
8.	Power Demand	750KVA			
9.	Power back up	600 K.V.A. x 1no			
10.	Wastewater Management	**Use of Water**	**Water requirement**	**Waste water generation**	**Mode of Disposal**
		Process	10KLD	8 KLD	ETP
		Domestic	5KLD	3KLD	STP
11.	Steam and heating system	Boiler of 850kg/hr capacity			
12.	Fuel Consumption	HSD50ltr/hr for DG Setand HSD50Ltr/hr for Boiler			

Land use details:

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

Raw material details:

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
1.	Cetyl Alcohol	2200 kg	Open	By Road
2.	Sles	14000kg	Open	By Road
3.	Kokkum Butter	500kg	Open	By Road
4.	Ginseng Powder	508 kg	Open	By Road
5.	Tea Tree Oil	465 kg	Open	By Road
6.	Etidronic Acid	300 kg	Open	By Road
7.	CresmerEw (Emulsifying Wax)	4486 kg	Open	By Road
8.	Esomeprazole 22.5 % (Col-Redoxide Of Iron) Pellets	468 kg	Open	By Road
9.	Galaxy 8501d	917kg	Open	By Road
10.	Glyceryl Mono Stearte (Se)	1510 kg	Open	By Road
11.	Ketoconazole	509 kg	Open	By Road
12.	Microcrystalline Cellulose (101)	809 kg	Open	By Road
13.	Poly Ethylene Glycol - 400 (Ph)	1175 kg	Open	By Road
14.	Poly Sorbate-20	602 kg	Open	By Road
15.	Polyoxyl-40 Hydrogenated Castor Oil (AcrysolK140)	463 kg	Open	By Road

16.	Soap Noodles	80440 kg	Open	By Road
17.	Soap Stone Powder 500# (98% Whitener Calcium Free)	693 kg	Open	By Road
18.	Sodium Benzoate	450 kg	Open	By Road
19.	Starch	1224 kg	Open	By Road
20.	Stearic Acid	2410 kg	Open	By Road
21.	Sucrose (S-31)	59838 kg	Open	By Road
22.	Tricholine Citrate	1500 kg	Open	By Road
23.	White Petroleum Jelly	957 kg	Open	By Road

Domestic Water Demand and Effluent Generation:

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

Industrial Water Demand and Effluent Generation:

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

Solid waste details:

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

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

- Project Proponent shall not produce Beta lactum, Ceflosporin, Anti-Cancer drugs, Narcotics.
- Project Proponent shall install ETP & VOC scrubbing system.
- Project Proponent shall install Wet Scrubber, re-cycling pit as air pollution control device in his premises.
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.

- The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- The gaseous emissions (SO_x, NO_x, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- The DG set shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time
- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.
- The proponent submitted details of the cost incurred on the project so far to be Rs12,69,726.00 (Twelve Lakh Sixty NineThousand Seven Hundred Twenty Six only).
- Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date, thus the total amount of the penalty is calculated to be Rs6,350.00 (Six Thousand Three Hundred Fifty Only). This non-refundable amount has been deposited by the project proponent vide DD No- 051112

dated- 02.08.2023 of Axis Bank Limited in the account of Uttarakhand Pollution Control Board.

- The Project Proponent has to submit the bank guarantee pertaining to remediation plan and natural and community resource augmentation plan of the amount 1,00,000.00 (One Lakh only) of which the Project Proponent has already submitted bank guarantee of Rs40,000.00 (Forty Thousand Only) vide Axis Bank Limited guarantee No-00930100000345 dated- 04.08.2023. The project proponent has to submit remaining bank guarantee of Rs. 60,000.00 (Sixty Thousand Only) which he has ensured that it will be deposited within a month. This bank guarantee will be refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan

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

Proposal – 3

Online proposal No.	SIA/UK/IND3/438831/2023
Name of the Project	Proposed Expansion for manufacturing of Pharmaceutical Formulations unit at Plot No- E-11, UPSIDC Industrial Area,Selaqui, Dehradun.
Name & Address of Proponent	M/s Cris Pharma India Ltd. by Shri Kailash Chand Melana(Director)
Whether New/Expansion/ Modernization Project	Expansion
Total Plot Area	1800.00m^2
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 &2020)

The project was submitted vide proposal no SIA/UK/IND3/438831/2023on dated 4thAugust, 2023by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Expansion for manufacturing of Pharmaceutical Formulations unit. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Enviro Infra Solutions Pvt. Ltd. and project was presented by Shri Vinay Kumar Singh, EIA Coordinator & Shri Deepak Pandey, Functional Area Expert (FAE).** The details of the project are as follows:-

S.No	Parameters	Description				
1.	Products and quantity	**Sno**	**Products**	**Existing Qty per Annum**	**Proposed Qty per Annum**	**TOTAL**
		1	Liquid	180 KL	**70KL**	**250 KL**
		2	Tablets	62.5 MT	**12.5 MT**	**75 MT**
		3	Capsules	1 Crorenos	**NIL**	**NIL**
2.	Estimated Project Cost	682 Lacs + **50 Lacs (Expansion Part)** = 732 Lacs				
3.	Total Plot Area	1800sqm				
4.	Proposed Green Area	180sqm + **20 sqm** = 200 sqm				
5.	Proposed Green Area	180 sqm + **20 sqm** = 200 sqm				
6.	Fresh Water Consumption	20KLD				
7.	Fresh Water Source	Borewell and SIDCUL water supply				
8.	Power Demand	400 KVA				
9.	Power back up	200 KVA x 1 (existing) + 380 KVA x 1 (Proposed)				
10.	Wastewater Management	**Use of Water**		**Water requirement**	**Waste water generation**	**Mode of Disposal**
		Process		12KLD	5KLD	ETP
		Domestic		08KLD	6.5KLD	STP
11.	Steam and heating system	Boiler 600 Kg/Hr x 1				
12.	Fuel Consumption	HSD50ltr/hr for DG Set and 50ltr/hr for Boiler				

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	1250.00
2.	Road and Paved area	150.00
3.	Parking area	200 sqm
4.	Green Area	200sqm
5.	Switchyard [OTS]	Nil
6.	Future Expansion Area	N.A.
	Total Plot Area	1800sqm

Raw material details:

S.No	Major Raw Material	Avg. consumption (Annually)	Source	Mode of Transport
1.	Sorbitol Solution	200 MTA	Open	By Road
2.	Propylene Glycol	85 MTA	Open	By Road
3.	Paracetamol	65 MTA	Open	By Road
4.	Glycerine	50 MTA	Open	By Road
5.	Citric Acid Monohydrate	50 MTA	Open	By Road
6.	Calcium Carbonate	40 MTA	Open	By Road
7.	Nimesulide	15 MTA	Open	By Road
8.	Polythylene Glycol - 400	3.5 MTA	Open	By Road
9.	Sucrose	225 MTA	Open	By Road
10.	Enrofloxacin	8 MTA	Open	By Road
11.	Light Magnesium Oxide	7 MTA	Open	By Road
12.	ISO Propyl Alcohol	5.5 MTA	Open	By Road
13.	Ferrous Ascorbate	5 MTA	Open	By Road
14.	Lactose Monohydrate	5 MTA	Open	By Road
15.	DrotavarineHCL	4 MTA	Open	By Road
16.	Corn Oil	4 MTA	Open	By Road
17.	Diclofenac Potassium	3 MTA	Open	By Road
18.	Methylene Chloride	3 MTA	Open	By Road
19.	Niacinamide	2.1 MTA	Open	By Road
20.	Vitamin B6 - Pyridoxine HCL	2.5 MTA	Open	By Road
21.	Mefanamic Acid	1.2 MTA	Open	By Road
22.	Starch	40 MTA	Open	By Road
23.	Mecobalamin	0.025 MTA	Open	By Road

Domestic Water Demand and Effluent Generation:

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]	190	40	7.6	6.46
2	Flushing water	190	L.S.	0.4	0.04
3	Canteen Facility	---	---	---	---
4	Housekeeping (Recycled Water)	L.S.	45	1.25	0.00
5	Gardening (Recycled Water)	200sqm	6.25ltr/sqm	1.25	---

Industrial Water Demand and Effluent Generation:

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process - Boiler Chiller	0.85	0.10
2	Cooling Tower make up	----------	----------
3	Laboratory	----------	----------
4	APC devices [Fume scrubber]	0.75	0.3
5	Rejects from Water Treatment	5.75	4.6
6	Consumption in Product through RO	4.65	0.00
	Total	**12KLD**	**5KLD**

Solid waste details:

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	ETP sludge [Category 35.3]	0.5 MTA	Authorized TSDF
2	Date Expired Products [Category 28.4]	0.5 MTA	Authorized TSDF
3	Used Oil [Category 5.1]	1.0MTA	Authorized TSDF

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

- Project Proponent shall not produce Beta lactum, Ceflosporin, Anti-Cancer drugs, Narcotics.
- Project Proponent shall install ETP & VOC scrubbing system.
- Project Proponent shall install Wet Scrubber, re-cycling pit as air pollution control device in his premises.
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- The gaseous emissions (SO_x, NO_x, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- The DG set shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time
- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.

- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.
- The proponent submitted details of the cost incurred on the project so far to be Rs25,65,200.00 (Twenty FiveLakh Sixty Five Thousand Two Hundred only).
- Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date, thus the total amount of the penalty is calculated to be Rs12,826.00 (Twelve Thousand Eight Hundred Twenty SixOnly). This non-refundable amount will be deposited by the project proponent vide DD No- 967986 dated- 17.08.2023 of Kotak Mahindra Bank in the account of Uttarakhand Pollution Control Board.
- The Project Proponent has to submit the bank guarantee pertaining to remediation plan and natural and community resource augmentation plan of the amount 1,87,500.00 (One Lakh Eighty Seven Thousand Five Hundred only). The project proponent has to submit bank guarantee of 1,87,500.00 (One Lakh Eighty Seven Thousand Five Hundred only). The project proponent has given in writing that the bank guarantee of the above mentioned amount will be deposited within one month. This bank guarantee will be refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan.

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

Proposal – 4

Online proposal No.	SIA/UK/IND3/439354/2023
Name of the Project	Proposed proposal for manufacturing of Pharmaceutical Formulations unit at Plot No- 12A, Pharma City,Selaqui, Dehradun.
Name & Address of Proponent	M/s East African India Overseas (Unit –VI) by Shri Jitendra Kumar (Vice President)
Whether New/Expansion/ Modernization Project	New
Total Plot Area	5381.00 m^2
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 &2020)

The project was submitted vide proposal no SIA/UK/IND3/439354/2023on dated 5th August, 2023by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed proposal for manufacturing of Pharmaceutical Formulations unit. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related

information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Enviro Infra Solutions Pvt. Ltd. and project was presented by Shri Vinay Kumar Singh, EIA Coordinator &Shri Deepak Pandey, Functional Area Expert (FAE).** The details of the project are as follows:-

S.No	Parameters	Description			
1.	**Products and quantity per Annum**	Tablets			250 MT
		Capsules			250 MT
		Syrup			1500 KLT
		Ointment			550 KLT
		Liquid Injection			550 KLT
		Dry Injection			50 MT
		Dry Syrup			50 MT
		External Preparation			400KLT
2.	Estimated Project Cost	3869.30 Lacs			
3.	Total Plot Area	5381.00m^2			
4.	Proposed Green Area	595.96m^2			
5.	Proposed Green Area	595.96m^2			
6.	Fresh Water Consumption	43KLD			
7.	Fresh Water Source	Borewell&SIDCUL Water Supply			
8.	Power Demand	1200KVA			
9.	Power back up	500 K.V.A. x 3nos			
10.	Wastewater Management	**Use of Water**	**Water requirement**	**Waste water generation**	**Mode of Disposal**
		Process	25KLD	10KLD	ETP
		Domestic	18KLD	15KLD	STP
11.	Steam and heating system	Boiler of 850kg/hr capacity			
12.	Fuel Consumption	HSD100ltr/hr for DG Set and HSD50Ltr/hr for Boiler			

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	2396sqm
2.	Road and Paved area	293sqm
3.	Parking area	54E.C.S
4.	Green Area	595.96m^2
5.	Switchyard [OTS]	N.A.
6.	Future Expansion Area	N.A.
	Total Plot Area	5381.00m^2

Raw material details:

S.No	Major Raw Material	Avg. consumption per month	Source	Mode of Transport
A.	**TABLETS**			
1.	CefiximeTrihydrate (Compacted)	4003 kg	Open	By Road
2.	Microcrystalline Cellulose (101)	2645 kg	Open	By Road
3.	Ferrous Ascorbate (Powder)	2288 kg	Open	By Road
4.	Methyl Hyd Benzoate (Methyl Paraben)	629 kg	Open	By Road
5.	Colloidal Silicon Dioxide	595 kg	Open	By Road
6.	Di Basic Calcium Phosphate(Anhydrous)	558 kg	Open	By Road
7.	Activated Charcoal	513 kg	Open	By Road
8.	Micro Crystaline Cellulose- PH-102	508 kg	Open	By Road
9.	Linezolid	367 kg	Open	By Road
10.	CrosPovidone XI 10	312 kg	Open	By Road
B.	**CAPSULES**			
1.	Esomeprazole 22.5 % (Col-Redoxide Of Iron) Pellets	1035 kg	Open	By Road
2.	Domperidone 30 % Sr Pellets (Col.Sunset Yellow)	648 kg	Open	By Road
3.	Pro-Prebiotic &Immunobiotic Blend Granules	225 kg	Open	By Road
4.	Doxycycline Hyclate + Lactic Acid Bacillus Blended Pellets	204 kg	Open	By Road

5.	Esomeprazole Pellets (White) 15%	175 kg	Open	By Road
6.	Esomeprazole Magnesium Pellets (White) Entric Coated 7.5 %	173 kg	Open	By Road
7.	Flucloxacillin Sodium Compected	166 kg	Open	By Road
8.	Inositol NF-12	161 kg	Open	By Road
9.	Omeprazole Pellets 7.5%	135 kg	Open	By Road
10.	Rabeprazole 11.2 %(E/C)Pellets (Col.Red Oxide Of Iron)	109 kg	Open	By Road

C.	**SYRUP**			
1.	Sucrose (S-31)	148967 kg	Open	By Road
2.	Sorbitol Solution 70%	106381 kg	Open	By Road
3.	Liquid Glucose	50000 kg	Open	By Road
4.	Iron (III) Hydroxide Polymaltose	3250 kg	Open	By Road
5.	Herb Honey	525 kg	Open	By Road
6.	Ammonium Chloride	384 kg	Open	By Road
7.	Zinc Gluconate	248 kg	Open	By Road
8.	Ferric Ammonium Citrate Eq. to Elemental Iron	227 kg	Open	By Road
9.	Di Sodium Hydrogen Citrate	196 kg	Open	By Road
10.	Tricholine Citrate (65%)	174 kg	Open	By Road

D.	**OINTMENT**			
1.	CresmerEW (Emulsifying Wax)	7218 kg	Open	By Road
2.	Hydroquinone	3607 kg	Open	By Road
3.	Poly Sorbate-20	1036 kg	Open	By Road
4.	Lafonics CM-1000 /Cetodet-500	244 kg	Open	By Road
5.	Miconazole Nitrate	229 kg	Open	By Road
6.	Hard Paraffin Wex (Wex Oil Mfg)	88 kg	Open	By Road
7.	ISO Propyl Myristrate	53 kg	Open	By Road

E.	**LIQUID INJECTION**			
1.	Glycerin (Glycerol)	11777 kg	Open	By Road
2.	Iron Sucrose Complex	109 kg	Open	By Road
3.	Citicoline Sodium (Injectable Grade)	60 kg	Open	By Road
4.	Diclofenac Sodium	54 kg	Open	By Road
5.	Sterile Sulbactam Sodium	51 kg	Open	By Road

F.	**DRY INJECTION**			
1.	Sterile Chloramphenicol Sodium Succinate	689 kg	Open	By Road
2.	Sterile Piperacillin&Tazobactum Sodium	262 kg	Open	By Road
3.	Sterile Ceftriaxone Sodium	161 kg	Open	By Road
4.	Sterile Co-Amoxyclav (Amoxycillin Sod. + Pot. Clav 5:1)	99 kg	Open	By Road
G	**DRY SYRUP**			
1.	Dried Sucrose (Pharma Grade)	2217 kg	Open	By Road
2.	Ofloxacin	945 kg	Open	By Road
3.	Cloxacillin Sodium	503 kg	Open	By Road
4.	Cefuroxime Axetil Granules (Resinated)	90 kg	Open	By Road
5.	Dry Flavour Bitter Masking	68 kg	Open	By Road

H.	**EXTERNAL PREPARATION**			
1.	Soap Noodles	158312 kg	Open	By Road
2.	Sodium Lauryl Ether Sulphate	14250 kg	Open	By Road
3.	Zinc Pyrithione (ZPTO)	541 kg	Open	By Road
4.	CocomonoEthanolamide (CMEA)	485 kg	Open	By Road
5.	Kokum Butter (Vrikshamla Seed Oil)	304 kg	Open	By Road
6.	Cocodi	218 kg	Open	By Road
7.	Ethyl Glycol Mono Stearate	114 kg	Open	By Road
8.	NeemDistilate (22:1)	66 kg	Open	By Road

Domestic Water Demand and Effluent Generation:

S.No.	Uses	Population/ area	Consumption rate	Water requirement	Domestic Effluent

				[KLD]	[KLD]
1	Domestic uses [drinking, sanitation]	400nos	45	18.00	15.00
2	Flushing water (Recycled)	400nos	15	6.0	0.00
3	Canteen Facility	--	--	--	--
4	Housekeeping (Recycled)	L.S.	L.S.	0.5	0.00
5	Gardening (Recycled)	595.96m^2	6.25ltr/sqm	0.75	--

Industrial Water Demand and Effluent Generation:

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process - Boiler Chiller	0.85	0.10
2	Cooling Tower make up	--	--
3	Laboratory	--	--
4	APC devices [Fume scrubber]	0.75	0.3
5	Rejects from Water Treatment	12.00	9.6
6	Consumption in Product through RO	11.4	0.00
	Total	**25.00**	**10.00**

Solid waste details:

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Used Oil [Category 5.1]	1.1 MTA	Authorized TSDF
2	ETP sludge [Category 35.3]	0.6 MTA	Authorized TSDF
3	Off Specification Products [Category 28.4]	0.8 MTA	Authorized TSDF
4	Date Expired Products [Category 28.5]	1.5 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 not produce Beta lactum, Ceflosporin, Anti-Cancer drugs, Narcotics.
- Project Proponent shall install ETP & VOC scrubbing system.
- Project Proponent shall install Wet Scrubber, re-cycling pit as air pollution control device in his premises.
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.

- All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- The gaseous emissions (SO_x, NO_x, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- The DG set shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time
- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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

Proposal – 5

Online proposal No.	SIA/UK/INFRA2/437106/2023
Name of the Project	Proposed proposal for manufacturing of Pharmaceutical Formulations Unit at Plot No. F-108, UPSIDC Industrial Area, Selaqui, Tehsil-Vikas Nagar, Dehradun
Name & Address of Proponent	M/s BLBK Pharmaceutical Pvt. Ltdby Shri ShelandraKumar (Managing Director)
Whether New/Expansion/ Modernization Project	New

Total Plot Area	850.00 m^2
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 &2020)

The project was submitted vide proposal no SIA/UK/INFRA2/437106/2023on dated 18th July, 2023by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed proposal for manufacturing of Pharmaceutical Formulations unit. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm M/s Rian Enviro Pvt. Ltd. and project was presented by Shri Muzaffar Ahmad, EIA Coordinator.** The details of the project are as follows:-

S.No	Parameters	Description		
1.	Products and quantity	**S.No.**	**Products**	**Quantity** (Lacs Nos. per month)
		1	Tablets	90
		2	Capsules	50
		3	OralSyrup	3
		4	Ointment	2
		5	Lotion/Cream	22
		6	LiquidSoap	1
		7	Sachate	2
		8	CosmeticProducts	1
		9	ProteinPowder	0.5
		10	Energypowder Dextrose	0.5
		11	Sanitizer (Bottles)	0.5
			Total	**172.5**
2.	Estimated Project Cost	50.0Lacs.		
3.	Total Plot Area	850.00 Sq.m		
4.	Existing Green Area			
5.	Proposed Green Area	150.0Sq.m		
6.	Fresh Water Consumption	4.0 KLD		
7.	Fresh Water Source	Borewell		
8.	Power Demand	75 KVA		
9.	Power back up	40 KVA & 65 KVA (one each)		
10.	Wastewater Management	Effluent: Proposed ETP (Capacity – 5.0 KLD) Sewage: Septic Tank/Soak Pits		
11.	Steam and heating system	Boiler - 200Kg/Hr.		
12.	Fuel Consumption	HSD		

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	340.00 Sq. m
2.	Road and Paved area	100.00 Sq. m
3.	Green Area	150.00 Sq. m
4.	Open Area	260.00 Sq. m
	Total Plot Area	**850.00 Sq.m**

Raw material details:

S.No	Major Raw Material	Avg. consumption Kg per Annum	Source	Mode of Transport
1.	BulkDrugs	48 MT		Road
2.	CoatingColors	0.30 MT		Road
3.	EmptyCapsules	22000000 Nos.		Road
4.	Excipients	60 MT		Road
5.	PackingMaterials	36 MT		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]	40 Nos.		0.7	0.7

2	Flushing water	40 Nos.		0.3	0.3
3	Gardening	150 Sq. m		1.0	0.0
	Total			**2.0**	**1.0**

Industrial Water Demand and Effluent Generation:

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process	2.0	1.5
2	Boiler	1.0	1.0
	Total	**3.0**	**2.5**

Solid waste details:

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Spent Oil	280 KG /Annum	Authorized Recycler
2	Contaminated Barrels	350 Nos./Year	Authorized Recycler
3	ETP Sludge	4 KG/month	Sent To TSDF
4	Process Residue	25 KG / Month	Sent To 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 not produce Beta lactum, Ceflosporin, Anti-Cancer drugs, Narcotics.
- Project Proponent shall install ETP & VOC scrubbing system.
- Project Proponent shall submit an affidavit for additional green belt in the surrounding area if possible otherwise belt can be developed on other available land shall submit the status of compliance along with six monthly compliance report.
- Project Proponent shall install Wet Scrubber, re-cycling pit as air pollution control device in his premises.
- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- The gaseous emissions (SO_x, NO_x, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- The DG set shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.

- The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time
- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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

Proposal – 6

Online proposal No.	SIA/UK/INFRA2/437755/2023
Name of the Project	Proposed Construction of Hotel Facility at Village- RamnagarDanda, Pargana-Parvadoon, Tehsil-Doiwala, Dist- Dehradun,
Name & Address of Proponent	M/s NainitalTechnobuild Private Limited & Others by Shri Maish Kumar Jain (Authorized Signatory)
Whether New/Expansion Project	New
Total Plot Area	82591.00 m^2
Total Build up Area	42433.77 m^2
Project Category	8(a) enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/437755/2023on dated 22nd July, 2023by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Construction of Hotel Facility. The proponent has submitted detailed project related information in Form 1, Form 1-A, Conceptual Plan. **Project was prepared by Accredited consultancy firm M/s Rian Enviro Pvt. Ltd. and project was presented by Shri Muzaffar Ahmad, EIA Coordinator.**The details of the project are as follows:-

S.No	Parameters	Description

1.	Plot Area	82591 Sq. m
2.	Proposed Built Up Area	42433.77 Sq. m
3.	Total no of Rooms	Hotel Duplex Suites – 173 Hotel Cum Banquet Hall Building - 120
4.	Total EWS Unit	
5.	Max Height of Building (Upto Terrace)	
6.	Max No of Floors	Hotel Duplex Suites - LG+UG Hotel Cum Banquet Hall Building - LG+UG+G+5 Hotel Management Institute - G+3 Auditorium cum Multipurpose Hall- LG+UG
7.	Cost of Project	100.00 Cr.
8.	Expected Population	1628 Nos. (Including fixed population of 187 Nos. and Floating population of 1441 Nos.).
9.	Proposed Ground Coverage Area	24047.83 Sq. m
10.	Proposed FAR	42069.85Sq. m
11.	Total Water Requirement	277.0KLD
12.	Fresh water requirement	139.0 KLD
13.	Waste water Generation	172.0 KLD
14.	Proposed STP Capacity	450 KLD
15.	No of RWH of Pits Proposed	5 Pits.
16.	Total Proposed Parking	454 ECS
17.	Proposed Green Area	7007.28 Sq.m
18.	Municipal Solid Waste Generation	668.70 Kg/Day
19.	Total Power Requirement	5000 KVA
20.	DG set backup	3 No. of Green Insulated DG sets (02 x 2250 KVA & 01 x 1010 KVA)

Salient features details:

S.No	Parameters	Description
GENERAL		
1.	Plot Area	82591 Sq. m
2.	Proposed Built Up Area	42433.77 Sq. m
3.	Number of Building Blocks	
4.	Total no of rooms	Hotel Duplex Suites – 173 Hotel Cum Banquet Hall Building - 120
5.	Max Height of Building (Upto Terrace)	
6.	Max No of Floors	Hotel Duplex Suites - LG+UG Hotel Cum Banquet Hall Building - LG+UG+G+5 Hotel Management Institute - G+3 Auditorium cum Multipurpose Hall- LG+UG
7.	Cost of Project	100.00 Cr.
8.	Expected Population	1628 Nos. (Including fixed population of 187 Nos. and Floating population of 1441 Nos.).
9.	Permissible Ground Coverage	37165.95 Sq. m
10.	Proposed Ground Coverage	24047.83 Sq. m
11.	Permissible FAR	197638.44 Sq. m
12.	Proposed FAR Area	42069.85 Sq. m
13.	Proposed NoN FAR Area	
14.	Proposed Built Up Area	42433.77 Sq. m
WATER		
15.	Total Water Requirement	277.0 KLD
16.	Fresh water requirement	139.0 KLD
17.	Waste water Generation	172.0 KLD
18.	Proposed STP Capacity	450 KLD
19.	Treated Water Available for Reuse	138 KLD
20.	Recycled Water	138 KLD
21.	Surplus Treated water	
RAIN WATER HARVESTING		
22.	Rain Water Harvesting Potential	337.69 m^3

23.	No of RWH of Pits Proposed	5 Pits (Capacity - 78.50 m^3 each)
PARKING		
24.	Total Parking Required as per building Bye Laws	392 ECS
25.	Total Proposed Parking	454 ECS
26.	Proposed Open Parking on Ground	337.14 ECS
27.	Proposed Parking in Setback Area	117 ECS
28.	Proposed Basements Parking	
GREEN AREAS		
29.	Required Green Area	3679.87 Sq. m
30.	Proposed Green Area	7007.28 Sq. m
WASTE GENERATION		
31.	Municipal Solid Waste Generation	668.70 Kg/Day
32.	Bio Degradable waste	401.22 Kg/Day
33.	Quantity of Sludge Generated from STP	
POWER		
34.	Total Power Requirement	5000 KVA
35.	DG set backup	3 No. of Green Insulated DG sets (02 x 2250 KVA & 01 x 1010 KVA)

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	24047.83 Sq. m
2.	Green Area	7007.28 Sq. m
3.	Road/Paved/Parking Area	
4.	Other Open Area	
5.	Total Plot Area	82591.00Sq. m

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

- The Project proponent has submitted an online application applicant CAF ID- C/0520/22-23 dated- 01.02.2023 for approval of map from MDDA. The project proponent shall get the approval of MDDA as per the layout submitted. In case of any change in the proposed layout plan the Project Proponent shall inform the SEIAA and shall seek amended Environmental Clearance.
- Project Proponent shall comply green building norms.
- The project site has trees which should not be felled without due permission of competent authority.
- Project Proponent shall install dual-plumbing system for proper utilization of STP treated water.
- Project Proponent shall construct underground fire water storage tank having a capacity of 1.0 Lakh Liter.
- The Project proponent shall submit an affidavit pertaining to the proper disposal of solid waste through municipal body/ NGO. In case the project proponent is unable to dispose of the solid waste through municipal body/ NGO then in this case the project proponent shall develop composting unit on its own expenditure and desired budgetary provision shall be made for it.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- 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 continous 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 Set shall be used only as backup power. The capacity of the proposed DG set shall not exceed 2 DG set of 2250 KVA & 1 DG set of 1010 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 meters above the highest ground water table.
- One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material has to be used during plantation as per standards of State Forest Department.
- Acoustic enclosures shall be provided with all construction machineries and DG sets on site complying with Noise Levels of CPCB standards. The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UKPCB.
- The construction debris may be used for land fill or disposed through authorized vendors. The Hazardous substances generated during construction activity shall be disposed off as required by Hazardous Waste (Management, Handling) Rules, 1989 (as amended from time to time). Efforts shall be maximized for use of low toxicity substitutes and low VOC materials.
- The vehicles used at the construction site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.
- Adequate drinking water and sanitation facility has to be provided on site for the workforce. Provision should be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The 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 450 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 halfyearly 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.
- 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.
- Under CER, Project Proponent apart from other activities, will also install Solar lights and distribute forest fire fighting equipments to the local groups (Mahilamangal dal/ Yuvakmangal 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.

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

Proposal – 7

Online proposal No.	SIA/UK/INFRA2/439200/2023
Name of the Project	Proposed Installation of Dryer in Biomass Briquette Manufacturing Unit at Khasra No. 1041, Mauza Central Hope Town, District - Dehradun.
Name & Address of Proponent	M/s M.S. Agro Waste Management by Shri Manjeet Sharma (Proprietor)
Whether New/Expansion/ Modernization Project	New
Total Plot Area	231.06 m^2

Project Category	B2, (Orange Category as per Doon Valley Notification 1989 &2020)

The project was submitted vide proposal no SIA/UK/INFRA2/439200/2023on dated 4th August, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Installation of Dryer in Biomass Briquette Manufacturing Unit. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. **Project was prepared by Accredited consultancy firm Environmental Management Division of M/s India Glycols Ltd. and project was presented by Dr. Chakresh Pathak, EIA Coordinator.**

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

S.No	Parameters	Description
1.	Products and quantity	Biomass Based Briquettes (1.50 TPH)
2.	Estimated Project Cost	63.50Lacs
3.	Total Plot Area	231.06Sq.m
4.	Existing Green Area	
5.	Proposed Green Area	23.0Sq.m
6.	Fresh Water Consumption	1.0 KLD
7.	Fresh Water Source	Ground Water
8.	Power Demand	60 KW
9.	Wastewater Management	Sewage: Septic Tank/Soak Pit
10.	Steam and heating system	Dryer (Biomass Fired)
11.	Fuel Consumption	Biomass Briquettes – 0.25 TPH

Land use details:

S.No	Parameters	Description
1.	Ground Coverage	113.00 Sq. m
2.	Road and Paved area	
3.	Green Area	23.00 Sq. m
4.	Open Area	95.06 Sq. m
	Total Plot Area	**231.06Sq.m**

Raw material details:

S.No	Major Raw Material	Avg. consumption Kg per Annum	Source	Mode of Transport
1.	Agro Waste	1.80 MT/Hr.	Open Market & Industrial Units	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]	14 Nos.		0.42	0.30
2	Flushing water				
3	Gardening	23 Sq. m		0.58	
	Total			**1.00**	**0.30**

Industrial Water Demand and Effluent Generation:

S.No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process		
2	Boiler		
	Total		

Solid waste details:

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1			

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

- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall submit detailed plan of Air Pollution Mitigation Measures.
- Project Proponent shall transport raw material in covered vehicles & shall cover the raw material to avoid any dust emission.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- Consent to Establish shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- In case of further expansion or modification in the plan project proponent shall apply for modification/fresh E.C.
- The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- The gaseous emissions (SO_x, NO_x, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- The DG set shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time
- Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.

- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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

Proposal – 8

Online proposal No.	SIA/UK/INFRA2/439407/2023
Name of the Project	Existing Group Housing Project "Park Belles" along with proposed commercial cum residential tower under violation at khasra no.-69 Gha& 80 kha, 80 ka (old khasra no. 55/1) parts, 79, 81, 82, 83, 84, &Kh. No. 300kha min, Property No 178, Village-Sinola, Parwadoon, MussoorieDiversion Road, District- Dehradun.
Name & Address of Proponent	M/s Sara Eminent by Shri Vijay Kumar Dhawan (Owner)
Whether New/Expansion Project	New
Total Plot Area	11323.91 m^2
Total Built up Area	15064.46 m^2 (Proposed) 22748.304 m^2 (Existing) 37810.764 m^2 (Total)
Project Category	"B1"& 8(a) as enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/439407/2023on dated 5th August, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Existing Group Housing Project "Park Belles" along with proposed commercial cum residential tower under violationin accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 8(a). The committee observed that the ToR was recommended by the SEAC in its 7thmeeting dated- 13.05.2023, the ToR letter was issued by SEIAA vide letter No.- 273/SEIAA dated-30.05.2023. The project proponent has now submitted final EIA report consisting of chapters including description of environment, anticipated environmental impact and mitigation majors, environmental monitoring programme, project benefits, Disclosure of Consultants Engaged EMP, Additional Studies etc.**Project was prepared by Accredited consultancy firm M/s Rian Enviro Pvt. Ltd. and project was presented by Shri Muzaffar Ahmad, EIA Coordinator.**

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

S.No	Parameters	Description
21.	Plot Area	11323.91 Sq. m
22.	Proposed Built Up Area	Existing Built-up Area – 24288.51 Sq. m Proposed Built-up Area - 15062.46 Sq. m Total Built-up Area – 39350.97 Sq. m
23.	Total no of Flats	Existing – 72 Nos. Proposed – 32 Nos. Total – 104 Nos.
24.	Total EWS Unit	
25.	Max Height of Building (Upto Terrace)	23.10m
26.	Max No of Floors	Existing - B+G+9 (Tower A+B)

		Proposed - 2B+G+6F (Tower F) Total - B+G+9 (Tower A+B) and 2B+G+6F (Tower F)
27.	Cost of Project	125.00 Cr.
28.	Expected Population	374 Persons (including staff & visitors)
29.	Proposed Ground Coverage	33.11%
30.	Proposed FAR	2.32
31.	Total Water Requirement	45KLD
32.	Fresh water requirement	29KLD
33.	Waste water Generation	36KLD
34.	Existing STP Capacity	50 KLD
35.	No of RWH of Pits Proposed	4 Pits
36.	Total Proposed Parking	367 ECS
37.	Proposed Green Area	1134.77 Sq.m
38.	Municipal Solid Waste Generation	251 Kg/Day
39.	Total Power Requirement	400 KVA
40.	DG set backup	500 KVA

Salient features details:

S.No	Parameters	Description
GENERAL		
36.	Plot Area	11323.91 Sq. m
37.	Proposed Built Up Area	Existing Built-up Area – 24288.51 Sq. m Proposed Built-up Area - 15062.46 Sq. m Total Built-up Area – 39350.97 Sq. m
38.	Number of Building Blocks	Existing - Tower A & B Proposed - Tower F Total – Tower A, B & F
39.	Total no of rooms	Existing – 72 Nos. Proposed – 32 Nos. Total – 104 Nos.
40.	Max Height of Building (Upto Terrace)	23.10m
41.	Max No of Floors	Existing - B+G+9 (Tower A+B) Proposed - 2B+G+6F (Tower F) Total - B+G+9 (Tower A+B) and 2B+G+6F (Tower F)
42.	Cost of Project	125.00 Cr.
43.	Expected Population	374 Persons (including staff & visitors)
44.	Permissible Ground Coverage	35%
45.	Proposed Ground Coverage	33.11%
46.	Permissible FAR	3
47.	Proposed FAR Area	2.32
48.	Proposed NoN FAR Area	
49.	Proposed Built Up Area	39350.97 Sq. m
WATER		
50.	Total Water Requirement	45 KLD
51.	Fresh water requirement	29 KLD
52.	Waste water Generation	36 KLD
53.	Existing STP Capacity	50 KLD
54.	Treated Water Available for Reuse	29 KLD
55.	Recycled Water	16 KLD
56.	Surplus Treated water	13 KLD
RAIN WATER HARVESTING		
57.	Rain Water Harvesting Potential	27.75 m^3/hr.
58.	No of RWH of Pits Proposed	4 Pits (Capacity - 6.28 m^3 each)
PARKING		
59.	Total Parking Required as per building Bye Laws	252.27(ECS)
60.	Total Proposed Parking	367 E.C.S.
61.	Proposed Open Parking on Ground	
62.	Proposed Parking in Setback Area	

63.	Proposed Basements Parking	
GREEN AREAS		
64.	Required Green Area	
65.	Proposed Green Area	1134.77 Sq. m
WASTE GENERATION		
66.	Municipal Solid Waste Generation	251 Kg/Day
67.	Bio Degradable waste	150.6 Kg/day
68.	Quantity of Sludge Generated from STP	
POWER		
69.	Total Power Requirement	400 KVA
70.	DG set backup	500 KVA

Land use details:

S.No	Parameters	Description
6.	Ground Coverage	33.11%
7.	Green Area	1134.77 Sq. m
8.	Road/Paved/Parking Area	
9.	Other Open Area	
10.	Total Plot Area	11323.91 Sq. m

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

- The Project proponent has submitted a approval letter of Group Housing a Project of M/s Sara Eminent "Park Belles" from MDDA vide file no- SR-0135/22-23 issued by letter no-209/2023 dated-15.04.2023. In case of any change in the proposed layout plan the Project Proponent shall inform the SEIAA and shall seek amended Environmental Clearance.
- Project Proponent shall install dual-plumbing system for proper utilization of STP treated water.
- Project Proponent shall comply green building norms.
- Project Proponent shall construct underground fire water storage tank having a capacity of 1.0 Lakh Liter.
- The Project proponent shall submit an affidavit pertaining to the proper disposal of solid waste through municipal body/ NGO. In case the project proponent is unable to dispose of the solid waste through municipal body/ NGO then in this case the project proponent shall develop composting unit on its own expenditure and desired budgetary provision shall be made for it.
- The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- 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 continous 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 Set shall be used only as backup power. The capacity of the proposed DG set shall not exceed 1 DG set of 500 KVA and it should have stack height complying with CPCB norms.
- Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices/sensor based control. Dual plumbing system shall be installed separately for fresh water and waste water.

- The use of glass may be reduced by upto 40 percent to reduce the electricity consumption and load on air conditioning. If necessary then use of high quality double glass may be encouraged with special reflective coating in windows.
- The use of LED and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 40 percent of the total power requirement after completion of construction unit shall be met from solar energy.
- Rainwater harvesting for roof top and surface run off should be ensured as per the plan submitted. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles. The bore well for rain water recharging should be kept at 5 meters above the highest ground water table.
- One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material has to be used during plantation as per standards of State Forest Department.
- Acoustic enclosures shall be provided with all construction machineries and DG sets on site complying with Noise Levels of CPCB standards. The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UKPCB.
- The construction debris may be used for land fill or disposed through authorized vendors. The Hazardous substances generated during construction activity shall be disposed off as required by Hazardous Waste (Management, Handling) Rules, 1989 (as amended from time to time). Efforts shall be maximized for use of low toxicity substitutes and low VOC materials.
- The vehicles used at the construction site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.
- Adequate drinking water and sanitation facility has to be provided on site for the workforce. Provision should be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- The 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 50 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 halfyearly 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.
- 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.
- Under CER, Project Proponent apart from other activities, will also install Solar lights and distribute forest fire fighting equipments to the local groups (Mahilamangal dal/ Yuvakmangal 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 13,64,76,595.00 (Thirteen Crore Sixty-Four Lakh Seventy-Six Thousand Five HundredNinety-Five only).
- Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date, thus the total amount of the penalty is calculated to be Rs6,82,383.00 (Six Lakh Eighty Two Thousand Three Hundred Eighty Three Only). This non-refundable amount has been deposited by the project proponent vide DD No- 957943 dated- 09.08.2023 of State Bank of India in the account of UttarakhandPollution Control Board.
- The Project Proponent has also submitted the bank guarantee pertaining to remediation plan and natural and community resource augmentation plan of the amount 1,26,87,500.00 (One Crore Twenty Six Lakh Eighty Seven Thousand Five Hundred only) vide State Bank of India bank guarantee 0418623BG0000037 dated- 16.08.2023. This bank guarantee will be refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan

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

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

Proposal – 1

Online proposal No.	SIA/UK/IND1/436692/2023
Name of the Project	Proposed Expansion for Manufacturing of M.S. Ingot and TMT Barat Plot no. 272/5/4 & 272/5/5, Village -Vikrampur Industrial Area, Tehsil

	- Bazpur, District -Udham Singh Nagar.
Name & Address of Proponent	M/s Brij Bihari ConcastPrivate Limitedby Shri Sanjeev Agarwal (Director)
Whether New/Expansion/ Modernization Project	Expansion
Total Plot Area	28228.22 m^2
Project Category	B1 & 3(a) Metallurgical industries (ferrous & non ferrous)enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/IND1/436692/2023on dated 18th July, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Expansion for Manufacturing of M.S. Ingot and TMT Bar.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 Vinay Kumar Singh, Functional Area Expert (FAE)&Shri Deepak Pandey, Functional Area Expert (FAE).**

Hence, committee agreed to recommend **ToR (Annexure-3)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court. The Project Proponent shall carryout Carbon foot printing&carbon sequestration study. The Project Proponent shall carryout a study to use alternative green fuel. The Project Proponent shall ensure that no slag is disposed in low lying area. The Project Proponent shall submit detailed slag management plan. The Project Proponent shall carryout detailed vehicular emission study.

Proposal – 2

Online proposal No.	SIA/UK/MIN/433909/2023
Site Details	Re-Appraisalof existing soapstone mining at Village- Baitoli, Tehsil & District- Bageshwar.
Name & Address of Proponent	ShriRajendra Prasad Tiwari, S/o ShriPranDutt Tiwari, R/o- Village-Simkhet, Tehsil &District- Bageshwar.
Coordinates	Latitude- 29°49'08.21"N to 29°49'11.44"N Longitude- 79°50'51.78"Eto 79°53'46.04"E
Mining Lease Area	4.942 Ha.
Category	B2& 1(a) enlisted in project /activity as per EIA Notification, 2006. But as per 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).
DEIAA E.C No	01/DEIAA/2017-18 dated- 23.02.2018

The project which was earlier granted E.C by DEIAA has been submittedfor Re-Appraisal vide proposal no SIA/UK/MIN/433909/2023 on dated 20th June,2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Re-Appraisal of existing soapstone mining in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a).As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP.**Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator.**

Hence, committee agreed to recommend **ToR (Annexure-4)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court. The Project Proponent shall carry out geological stability study along with detailed flora and fauna investigation by subject specialist. The Project Proponent shall submit mitigation plan for avoiding the runoff and leaching of debris during the monsoon. The project proponent shall submit the compliance pertaining to the checklist provided in Govt. of India, MoEF&CC O.M. No- IA3-22/11/2023-IA.III(E-208230) dated- 28.04.2023

Proposal – 3

Online proposal No.	SIA/UK/MIN/433822/2023
Site Details	Re-Appraisal of existing soapstone mining at Village- Chauni, Chamandthal&Nayal, Tehsil & District- Bageshwar.
Name & Address of Proponent	ShriKhadad Singh DafautiS/o ShriKundan Singh Dafauti, R/o- Village-Nayal, P/o- Chamadthal,Tehsil&District- Bageshwar.
Coordinates	Latitude- 29°49'5.88"N to 29°49'3.36"N Longitude- 79°50'7.08"E to 79°50'9.24"E
Mining Lease Area	4.944 Ha.
Category	B2& 1(a) enlisted in project /activity as per EIA Notification, 2006. But as per 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).
DEIAA E.C No	19/DEIAA/BAG-E.C/2017-18 dated- 16.08.2018

The project which was earlier granted E.C by DEIAA has been submitted for Re-Appraisal vide proposalno SIA/UK/MIN/433822/2023 on dated 19th June,2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Re-Appraisal of existing soapstone mining in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a).As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP.**Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator.**

Hence, committee agreed to recommend **ToR (Annexure-4)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court. The Project Proponent shall carry out geological stability study along with detailed flora and fauna investigation by subject specialist. The Project Proponent shall submit mitigation plan for avoiding the runoff and leaching of debris during the monsoon. The project proponent shall submit the compliance pertaining to the checklist provided in Govt. of India, MoEF&CC O.M. No- IA3-22/11/2023-IA.III(E-208230) dated- 28.04.2023

17/08/2023 17/08/2023

(Shri S.S. Bist)	(Dr. A.K. Minocha)	(Dr.AshutoshGautam)	(Dr. B.P. Purohit)
Chairman,SEAC	Member, SEAC	Member,SEAC	Member,SEAC

17.08.2023

(Shri Nitish Mani Tripathi)
Member Secretary, SEAC

Annexure-01

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- 02

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 and it should have stack height complying with CPCB norms.

1.14. Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices/sensor based control. Dual plumbing system shall be installed separately for fresh water and waste water.

1.15. The use of glass may be reduced by upto 40 percent to reduce the electricity consumption and load on air conditioning. If necessary then use of high quality double glass may be encouraged with special reflective coating in windows.

1.16. The use of LED and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 10 percent of the total power requirement after completion of construction unit shall be met from solar energy.

1.17. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, 2006 which is proposed to be mandatory for all air-conditioned spaces while non air-conditioned spaces should have appropriate thermal insulation materials. The U values of the roof, external wall and fenestration shall also meet specifications of ECBC, 2006.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Terms of Reference (ToR)

3(a): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS) PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TERMS OF REFERENCE (TOR)

1) Executive Summary
2) Introduction
   - i. Details of the EIA Consultant including NABET accreditation
   - ii. Information about the project proponent
   - iii. Importance and benefits of the project
3) Project Description
   - i. Cost of project and time of completion.
   - ii. Products with capacities for the proposed project.
   - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
   - iv. List of raw materials required and their source along with mode of transportation.
   - v. Other chemicals and materials required with quantities and storage capacities
   - vi. Details of Emission, effluents, hazardous waste generation and their management.
   - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
   - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
   - ix. Hazard identification and details of proposed safety systems.
   - x. Expansion/modernization proposals:
     - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing I existing operation of the project from SPCB shall be attached with the EIA-EMP report.
     - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Project Description
   - i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
   - ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
   - iii. Details w.r.t. option analysis for selection of site
   - iv. Co-ordinates (lat-long) of all four corners of the site.
   - v. Google map-Earth downloaded of the project site.
   - vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
   - vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
   - viii. Landuse break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area

x. Geological features and Geo-hydrological status of the study area shall be included.

xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xiii. R&R details in respect of land in line with state Government policy

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

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)

ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6) Environmental Status.

i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.

v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.

vi. Ground water monitoring at minimum at 8 locations shall be included.

vii. Noise levels monitoring at 8 locations within the study area.

viii. Soil Characteristic as per CPCB guidelines.

ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.

x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan.

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

assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling - in case of discharge in water body

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyorcum- rail transport shall be examined.

iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control.

vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.

iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,

iv. Annual report of heath status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

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

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

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

C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT

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

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

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Annexure-04

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 areashould 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 givenwith 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 EnvironmentPolicy approved by its Board of Directors? If so, it may be spelt out in the EIA Report withdescription of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

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

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

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

36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

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

a) Executive Summary of the EIA/EMP Report
b) All documents to be properly referenced with index and continuous page numbering.
c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
e) Where the documents provided are in a language other than English, an English translation should be provided.
f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

***Note**: 1) The study area shall comprise of radial distance of 10 KM from the project site and the study period is three months. The impact on each of the above parameter as a result of mining shall be assessed through appropriate modeling and prediction methods considering base line data.*

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

Additional TOR:

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

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