

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

Letter No: 22/SEAC

Dated: 13, May, 2023

The Third Day of the 7th meeting of the Uttarakhand State Level Expert Appraisal Committee (SEAC) was held on 13th May, 2023 at the SEIAA/SEAC office Dehradun. The following were present at the meeting –

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| 1) Shri Shailendra Singh Bist | Chairman |
| 2) Dr. Ashwani Kumar Minocha | Member |
| 3) Dr. Ashutosh Gautam | Member |
| 4) Dr. Basudev Prasad Purohit | Member |
| 5) Shri Nitish Mani Tripathi | 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 includes Industrial, Integrated Municipal Solid Waste Management Facility (IMSWMF) etc. The concerned recognized environment consultants of the proponents made the presentations.

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

Proposal – 1

Online proposal No.	SIA/UK/INFRA2/427635/2023
Name of the Project	Expansion of Proposed Enhancement in Production Capacity for Manufacture of Shoe Soles, Footwear & Parts thereof in the existing Complex at Khasra No. 3901, 3902, 3903 & 3904, Lal Tappar Industrial Area, Mauza Majri Grant, Tehsil- Rishikesh, District - Dehradun.
Name & Address of Proponent	M/s Soltec (A Unit of Mochiko Shoes Pvt. Ltd.) by Shri Samrendra Kumar Parida (Director)
Whether New/Expansion/Modernization Project	Expansion
Total Plot Area	7990.00m ²
Project Category	B2, (Orange Category as per Doon Valley Notification 1989 & 2020)

The project was submitted vide proposal no SIA/UK/INFRA2/427635/2023 on dated 30th April, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Expansion of Proposed Enhancement in Production Capacity for Manufacture of Shoe Soles, Footwear & Parts thereof in the existing Complex. 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 Shri Chakresh Pathak, EIA Coordinator.**

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

S. No	Parameters	Description
1.	Products and quantity	(i) Shoe Soles, Footwear's & Parts-3.0 Lac Pair/Month (ii) EVA Compound- 350 MT/Month
2.	Estimated Project Cost	Rs. .75 Crores
3.	Total Plot Area	7989.66 Sqm
4.	Proposed Green Area	2636.58 Sq. m
5.	Proposed Green Area	2636.58 Sq. m
6.	Fresh Water Consumption	42.3 KLD
7.	Fresh Water Source	Bore well
8.	Power Demand	500 KVA

9.	Power back up	500 KVA (01)
10.	Wastewater Management	Existing ETP (Capacity – 25.0 KLD) Augmented STP (Capacity – 25.0 to 40.0 KLD)
11.	Steam and heating system	
12.	Fuel Consumption	HSD

Land use details:

S. No	Parameters	Description
1.	Ground Coverage	
2.	Road and Paved area	
3.	Parking area	
4.	Green Area	2636.58 Sq. m
5.	Switchyard [OTS]	
6.	Future Expansion Area	
	Total Plot Area	7989.66 Sq. m

Raw material details:

Raw material requirement for Soles			
Raw Materials	Existing	Proposed	Total
EVA Granule for sole making	91.0 MTPM	22.83 MTPM	113.83 MTPM
EVA Compound	82.0 MTPM	20.5 MTPM	102.5 MTPM
Mis. Compound	20.0	5.0 MTPM	25.0 MTPM

Domestic Water Demand and Effluent Generation:

S.No.	Uses	Population/ area	Consumption rate	Water requirement [KLD]	Domestic Effluent [KLD]
1	Domestic uses [drinking, sanitation]			45.0	36.0
2	Flushing water				
3	Canteen Facility				
4	Housekeeping				
5	Gardening			6.0	
	Total			51.0	

Industrial Water Demand and Effluent Generation:

S. No.	Uses	Water requirement [KLD]	Effluent Generation [KLD]
1	Process -	21.0	8.0
2	Cooling Tower make up		
3	Laboratory		
4	APC devices [Fume scrubber]		
5	Rejects from Water Treatment		
6.	Misc.	10.0	5.0
	Total	31.0	13.0

Solid waste details:

S.No.	Waste Detail	Quantity Generation	Utilization/Disposal
1	Empty barrels /liners/containers contaminated with hazardous wastes/ chemicals [Category 33.1]		
2	Used Oil [Category 5.1]		

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

- Project Proponent shall comply with the EPR authorization, if applicable.
- Project Proponent shall ensure compliance of CER activity through any Govt. Organization.
- Project Proponent shall dispose AHU filter dust and filters to TSDF.

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- 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.

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- The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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

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

Proposal – 1

Online proposal No.	SIA/UK/MIS/71303/2022
Name of the Project	Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF) at Khasra No- 2276 Vill- Papdiyana, Tehsil & Dist- Chamoli.
Name & Address of Proponent	M/s Municipal Corporation Nagar Palika Parishad, Chamoli-Gopeshwar.
Whether New/Expansion Project	New
Total Plot Area	0.180 Ha.
Project Category	7(i) & activity 'B1' enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/MIS/71303/2022 on dated 20th January, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF). The proponent has submitted detailed project related information in Form 1, PFR & EMP. **Project was prepared by Accredited consultancy firm Environmental Management Division of M/s Natureanalytics Enviocare Solutions Pvt. Ltd. and project was presented by Dr. O.P. Shukla, Managing Director & EIA Coordinator.**

Since, the proposed project site is not suitable as per the environment related guidelines issued by MoEF&CC the committee is of the view that **ToR cannot be granted** for the proposed site as it is too close to Highway as well as water body. The Project Proponent is free to approach the SEIAA for obtaining ToR after selection of suitable site.

Proposal – 2

Online proposal No.	SIA/UK/MIS/72420/2022
Name of the Project	Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF) at Khasra No.-2338, 2362, 2464, Village- Bipul, Tehsil- Pithoragarh
Name & Address of Proponent	M/s Nagar Palika Parishad, Pithoragarh.
Whether New/Expansion Project	New
Total Plot Area	0.75 Ha.
Project Category	7(i) & activity 'B1' enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/MIS/72420/2022 on dated 21st February, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF). The proponent has submitted detailed project related information in Form 1, PFR & EMP. **Project was prepared by Accredited consultancy firm Environmental Management Division of M/s VVN Technologies Pvt. Ltd and project was presented by Dr. Rekha Singh, EIA Coordinator.**

Hence, committee agreed to recommend **ToR (Annexure-2)** to the proponent for preparation of EIA report subject to following conditions:-

- The Project Proponent shall obtain NoC from competent officer of Naini Saini Airport/AAI.

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- The Project Proponent shall shift the processing area at least 200 meters away from the adjacent National Highway.
- The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.

Proposal – 3

Online proposal No.	SIA/UK/INFRA2/404522/2022
Name of the Project	Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF) at Plot No- 450 Village- Penualla, Tehsil- Kirtinagar, District- Tehri Garhwal.
Name & Address of Proponent	M/s Nagar Panchayat, Kirtinagar, District- Tehri Garhwal.
Whether New/Expansion Project	New
Total Plot Area	0.40 Ha.
Project Category	7(i) & activity 'B1' enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/404522/2022 on dated 17th December, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF). The proponent has submitted detailed project related information in Form 1, PFR & EMP. **Project was prepared by Accredited consultancy firm Environmental Management Division of M/s Ind Tech House Consult and project was presented by Shri Anand Kumar Dubey, Partner.**

During presentation the project proponent informed to SEAC that the above proposal has been uploaded twice on PARIVESH Portal. Thus the project proponent requested to withdraw the present application. A request for the same has been submitted by the project proponent vide his letter no- Memo/EC/UK/23 dated- 13.05.2023. Based on the request of the project proponent the committee decided to allow the withdrawal of the proposal.

Proposal – 4

Online proposal No.	SIA/UK/INFRA2/408453/2022
Name of the Project	Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF) at Plot No- 450 Village- Penualla, Tehsil- Kirtinagar, District- Tehri Garhwal.
Name & Address of Proponent	M/s Nagar Panchayat, Kirtinagar, District- Tehri Garhwal.
Whether New/Expansion Project	New
Total Plot Area	0.40 Ha.
Project Category	7(i) & activity 'B1' enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/408453/2022 on dated 29th November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF). The proponent has submitted detailed project related information in Form 1, PFR & EMP. **Project was prepared by Accredited consultancy firm Environmental Management Division of M/s Ind Tech House Consult and project was presented by Shri Anand Kumar Dubey, Partner.**

Hence, committee agreed to recommend **ToR (Annexure-2)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.

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Proposal – 5

Online proposal No.	SIA/UK/INFRA2/427699/2023
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, Mussoorie Diversion 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)
Project Category	"B1"& 8(a) as enlisted in project /activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/427699/2023 on dated 1st May, 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 violation. The proponent has submitted detailed project related information in Form 1, Form 1-A, Conceptual Plan & 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 Committee after examining the original proposal and after going through the presentation done by the consultant wherein he informed that they have made violation by doing some initial construction work.

The SEAC has raised following observations-

- SEAC asked the Project Proponent for submitting actual amount of money incurred so far by the project to estimate the penalty. Since the project proponent has suo-moto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date. This non-refundable amount is to be deposited in the account of State Pollution Control Board.
- The Project Proponent is expected to submit the total budgetary allocation pertaining to remediation plan and natural and community resource augmentation plan. The Project Proponent shall submit a bank guarantee equivalent to the above amount with the State Pollution Control Board. This bank guarantee is refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan.
- The Project Proponent shall complete the impact assessment studies and submit Environmental Impact Assessment (EIA) report and Environmental Management Plan (EMP) in a time bound manner. Till this happens further operations/construction activities on the site shall be closed.

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.

Proposal – 6

Online proposal No.	SIA/UK/MIS/60765/2021
Name of the Project	Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF) at Plot No- 6 Kha, 13 Kha, 18 Khas, 19, 20, 22 Ka and 23, 24, 25, 26 Ka Village- Shishambada, Vikasnagar, Dehradun
Name & Address of Proponent	M/s Dehradun Waste Management Private Limited (DWMPPL)
Whether New/Expansion Project	New
Total Plot Area	8.323 Ha.
Project Category	7(i) & activity 'B1' enlisted in project/activity as per EIA Notification, 2006

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The project was submitted vide proposal no SIA/UK/MIS/60765/2022 on dated 12th February, 2021 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF). The proponent has submitted detailed project related information in Form 1, PFR & EMP.

The project proponent did not turn-up for the meeting. Hence, with the permission of chair committee decided to reject the project.

Proposal -7

Online proposal No.	SIA/UK/INFRA2/420523/2023
Name of the Project	Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF) for Roorkee Cluster at Khasra No. 320 Village- Saliyar, Tehsil- Roorkee, District- Haridwar.
Name & Address of Proponent	M/s Nagar Nigam Roorkee, District- Haridwar.
Whether New/Expansion Project	New
Total Plot Area	40000.00 m ²
Project Category	7(i) & activity 'B1' enlisted in project/activity as per EIA Notification, 2006

The project was submitted vide proposal no SIA/UK/INFRA2/420523/2023 on dated 1st March, 2023 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed Integrated Municipal Solid Waste Management Facility (IMSWMF). The proponent has submitted detailed project related information in Form 1, PFR & EMP. **Project was prepared by Accredited consultancy firm Environmental Management Division of M/s Ind Tech House Consult and project was presented by Shri Anand Kumar Dubey, Partner.**

Hence, committee agreed to recommend **ToR (Annexure-2)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project. The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.

Additional agenda with the permission of Chair

- 1) Discussion on the matter of Hon'ble NGT order in Appeal No. 01/2022 (IA. No. 98/2022 & IA. No. 320/2022) with Appeal No. 02/2022 (I.A. No. 317/2022 & I.A. No. 318/2022) of Suraj Singh Karki Appellant Versus State Level Environment Impact Assessment Authority, Uttarakhand & Ors Respondent (s), and grant of EC dated 09-11-2020 by SEIAA Uttarakhand in favour of Ramesh Chandra Singh and Manish Nand Kishore Agrawal (PPs) for mining soapstone at Village-Nayal Biladi (Nayal Dhapola) Tehsil and District-Bageshwar, Uttarakhand, date of hearing 9-12-2022 was held.

Today on behalf of the proponent Mr. Mahesh Joshi was present before the committee. The project proponent has submitted hard copies of the revised report on impact of mining on seismicity and report on forest/wildlife biodiversity before SEAC and SEIAA. After going through the presentation as well as revised report prepared by qualified expert the committee is of the view that the report submitted by Project Proponent is as per the directions of Hon'ble NGT. Hence, the committee decided to refer the proposal to SEIAA for further consideration.

(Shri S.S. Bist)
Chairman, SEAC

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

(Dr. Ashutosh Gautam)
Member, SEAC

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

(Shri Nitish Mani Tripathi)
Member Secretary, SEAC

- 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

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- 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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7(i): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR COMMON MUNICIPAL SOLID WASTE MANAGEMENT FACILITY (CMSWMF) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

- 1) The project should be designed based on the population projections as by Master Plan.
- 2) Submit a 10 km. radius map (on survey of India toposheet) showing co-ordinates of project site, national highway, state highway, district road/approach road, river, canal, natural drainage; protected areas, under Wild Life (Protection) Act, archaeological site, natural lake, flood area, human settlements (with population), industries, high tension electric line, prominent wind direction (summer and winter), effluent drain, if any and ponds etc. should be presented and impacts assessed on the same.
- 3) Examine and submit details of alternative technologies viz. RDF shall also be evolved.
- 4) Examine and submit details of storm water/ leachate collection from the composted area.
- 5) Examine and submit details of monitoring of water quality around the landfill site. Water analysis shall also include for nitrate and phosphate.
- 6) Examine and submit details of the odour control measures.
- 7) Examine and submit details of impact on water bodies/rivers/ ponds and mitigative measures during rainy season.
- 8) Submit the criteria for assessing waste generation. Any segregation of hazardous and bio-medical wastes.
- 9) Submit a copy of the layout plan of project site showing solid waste storage, green belt (width & length, 33% of the project area), all roads, prominent wind direction, processing plant & buildings etc. should be provided.
- 10) Submit a copy of the land use certificate from the competent authority.
- 11) NOC from local or nearest airport within 20 km and any flight funnel restrictions.
- 12) Submit a copy of the status of ambient air quality and surface and ground water quality, soil type, cropping pattern, land use pattern, population, socio-economic status, anticipated air and water pollution.
- 13) Submit a copy of the topography of the area indicating whether the site requires any filling, if so, the details of filling, quantity of fill material required, its source and transportation, etc.
- 14) Examine and submit the details of impact on the drainage and nearby habitats/settlements (surroundings).
- 15) Examine and submit the details of surface hydrology and water regime and impact on the same.
- 16) Examine and submit the details of one complete season AAQ data (except monsoon) with the dates of monitoring, impact of the project on the AAQ of the area (including H₂S, CH₄).
- 17) Submit a copy of detailed plan of waste management.
- 18) Submit the details of sanitary land fill site impermeability and whether it would be lined, if so details thereof.
- 19) Examine and submit the details of impact on environmental sensitive areas.
- 20) Examine and submit the details of rehabilitation/compensation package for the project effected people, if any.
- 21) Submit Environmental Management Plan and Environmental Monitoring Plan with costs and parameters.
- 22) Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.
- 23) A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
- 24) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 25) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 26) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Common Municipal Solid Wastes>".

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8(a): TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR BUILDING AND CONSTRUCTION PROJECTS UNDER VIOLATION CATEGORY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

- 1) Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
- 2) Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.
- 3) Examine baseline environmental quality along with projected incremental load due to the project.
- 4) One month baseline data to be generated on Air, Water, Noise & Soil.
- 5) Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- 6) Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
- 7) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project
- 8) Submit the details of the trees to be felled for the project.
- 9) Submit the present land use and permission required for any conversion such as forest, agriculture etc.
- 10) Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
- 11) Ground water classification as per the Central Ground Water Authority.
- 12) Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
- 13) Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
- 14) Examine soil characteristics and depth of ground water table for rainwater harvesting.
- 15) Examine details of solid waste generation treatment and its disposal.
- 16) Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
- 17) DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
- 18) Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
- 19) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
- 20) Examine the details of transport of materials for construction which should include source and availability.
- 21) Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
- 22) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
- 23) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 24) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 25) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

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