



सत्यमेव जयते

File No: 21-321/2024-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 20/11/2024



To,

Sh. Deepak Chandra
M/s NAGAR PANCHAYAT BANBASA
Ward No.- 6, Nagar Panchayat Banbasa, Banbasa, Uttarakhand, BANBASA, CHAMPAWAT,
UTTARAKHAND, P.O- Chandani, Banbasa, 262310
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Subject: **Proposed Sanitary Landfill for Common Municipal Solid Waste Management Facility (CMSWMF) at Chandfarm Road, Chuna Bhatta, P.O- Chandani, Banbasa, Dist.: Champawat-262310, Uttarakhand by M/s Nagar Panchayat Banbasa, Champawat, Uttarakhand – For Grant of Terms of Reference – reg.**

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Sanitary Landfill for Common Municipal Solid Waste Management Facility (CMSWMF) submitted to Ministry vide proposal number IA/UK/INFRA2/466182/2024 dated 20/04/2024.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO24A3402UK5892646N
(ii) File No.	21-321/2024-IA.III
(iii) Clearance Type	TOR
(iv) Category	A
(v) Project/Activity Included Schedule No.	7(i) Common Municipal Solid Waste Management Facility (CMSWMF)
(vi) Sector	INFRA-2
(vii) Name of Project	Sanitary Landfill for Common Municipal Solid Waste Management Facility (CMSWMF)
(viii) Name of Company/Organization	NAGAR PANCHAYAT BANBASA
(ix) Location of Project (District, State)	CHAMPAWAT, UTTARAKHAND
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	yes
(xiii) Applicability of Specific Conditions	no

3. The project/activity is covered under category ‘B’ of item 7(i) ‘Common Municipal Solid Waste Management Facility (CMSWMF)’ of the Schedule to the EIA Notification, 2006 as amended requires appraisal at the State level. However, since the proposed area is located within 5 km of the International Boundary of Nepal, thus, the General Condition is applicable for the proposal and it is required to be appraised by sectoral EAC at the Central level.

4. Accordingly, the proposal for grant of Terms of Reference (ToR) for Proposed Sanitary Landfill for Common Municipal Solid Waste Management Facility (CMSWMF) at Chandfarm Road, Chuna Bhatta, P.O- Chandani, Banbasa, Dist.: Champawat- 262310, Uttarakhand by M/s Nagar Panchayat Banbasa, Champawat, Uttarakhand has been examined by the Expert Appraisal Committee (Infra-2) in its 128th meeting held from 26.06.2024 to 28.06.2024 and 132nd meeting held on 23-24.10.2024.

5. The details of the proposal, as per the details furnished in the application form, the documents submitted by the project proponent, and also as informed during the aforesaid meeting of EAC, are provided below for reference:

- i. The proposal is of Terms of Reference (ToR) for a Sanitary Landfill for Common Municipal Solid Waste Management Facility (CMSWMF) by M/s Nagar Panchayat Banbasa, Champawat, Uttarakhand.
- ii. The project is proposed to be located at Chandfarm Road, Chuna Bhatta, P.O- Chandani, Banbasa, Dist.: Champawat- 262310, Uttarakhand with GPS co-ordinates as latitude: 28°59'23.5"N and longitude: 80°04'59.8"E.
- iii. The proposed project site is 5 km from the International Boundary of Nepal.
- iv. The total plot area is 8,000 sq. m, the sanitary landfill area is 2,260 sq. m. 0.80 Ha of land has been allotted to Nagar Panchayat, Banbasa from the Forest Department of Uttarakhand for proposed landfill project.
- v. The baseline data is collected according to standard ToR conditions. The monitoring period for baseline data collection is March- May 2024.
- vi. The project components (Activities and Facilities to be developed) include: (a) Compositing facility will be developed for organic waste generated in MSW. (b) For inorganic waste, MRF and RDF facilities will be developed. (c) The leachate holding tank and gas and leachate management system are the main components of the landfill facility.
- vii. Waste generation projections and strategy for collection, treatment, and disposal: The projected waste generation in 2039 will be 20 TPD out of which 2.2 TPD will be sent to landfill. It presently generates 11 TPD of waste daily. The waste composition analysis has indicated that city waste has 45% dry waste, 55% wet waste. About 11% of inert/ rejects are estimated to be generated from composting and MRF facilities that shall be disposed of at the landfill
- viii. Habitation in and around the project site: Sanjay Smriti Bal Vidya Mandir at 1.2 Km Prachin, Hanuman Mandir at 1.18 Km, Sanctuaries/ National Parks- Nandhaur Wildlife Sanctuary at 12.2 Km, Archeological monuments- Katyuri king historical place– 10.1 Km, Nearest village Nagar Panchayat Banbasa – 0.8 Km.
- ix. The nearest road proposed site is Chunnabatta Road and is well connected to the landfill site. The nearest railway station is Banbasa Railway station at 1.6 Km from the project site and the nearest airport is Pantnagar airport at 59.93 Km from the project site. The nearest highway NH09 Khatima- Tanakpur Road is 1.5 m from the site.
- x. The water requirement for the project will be 8 KLD through Water Tanker:

Sl. No.	Particulars	Water Requirement (KLD)
1	Process	00
2	Domestic	01
3	Gardening	7
		08

xi. Expected Waste Generation (Liquid and Solid) and proposed management strategy: It presently generates 11 TPD of waste on daily basis. The waste composition analysis has indicated that city’s waste has 45 % dry waste, 55% wet waste. About 11% inert /rejects are estimated to be generated from composting and MRF facility that shall be disposed-off at the landfill. The projected waste generation in 2039 will be 20 TPD out of which 2.2 TPD will be sent to landfill.

xii. The project does not fall within 10 km of an eco-sensitive area.

xiii. The proposed land is Forest land; thus, the Forest clearance is applicable for the proposed project under the Forest Conservation Act, of 1980.

xiv. Wildlife Protection Act, 1972 is applicable.

xv. The land is located outside the industrial area.

xvi. The proposed project is not located in a Critically Polluted area (CPA). No tree cutting is involved for the proposed project.

xvii. No human settlements are existing in the proposed area and no humans will be displaced from the area so the

- proposed project does not involve any rehabilitation and resettlement.
- xviii. No court cases are pending against the proposed project.
- xix. 5 KW of power requirements for the project will be met through Uttarakhand Power Corporation Ltd.
- xx. It is estimated that project cost shall be around Rs.4.8515 Cr.
- xxi. The Coastal Regulation Zone Notification, 2019 is not applicable for the proposed project.
- xxii. Total Manpower required will be 55.

Tanakpur			
Sl. No.	Designation	Assigned Post	Availability
1.	Sweeper	32	32
2.	Drivers	7	7
3.	Supervisor	6	6
Total		55	55

xxiii. Benefits of the project: The project will bring economic benefits to the state by the ways of direct and indirect taxes to export/import of various goods. During various stages of the development of the proposed projects there will be generation of direct and indirect employment in the auxiliary and other industries will benefit to State and National Economy. Increase in business activity will bring in prosperity in hinterland, which consequently would bring better access to social and physical infrastructure.

6. Earlier, this project was considered by the EAC in its 128th meeting held from 26.06.2024 to 28.06.2024. During the meeting, the committee noted that the total plot area is 8,000 sq. m, the sanitary landfill area is 2,260 sq. m and the proposed green belt area is 2,773 sq. m. Further, the project proponent informed the committee that the proposed area is forest land and allotted by the State Forest Department, Dehradun, Uttarakhand. However, the project proponent has not been obtained the Stage-1 Forest Clearance letter from the State Forest Department. Also, the project proponent could not produce any document indicating particular land has been handed over to the project proponent for the aforesaid project. In view of this, the committee has deferred the proposal for want of Forest clearance from the State Forest Department.

7. In this regard, the Additional Details Sought (ADS) was raised and the PP responded to the ADS stating that Project Proponent has applied for forest clearance vide Proposal No. FP/UK/OTHERS/485753/2024, the outcome of which is still awaited. This proposed project is considered by the EAC.

8. The project proponent informed that no other land parcel was in the position of the project proponent for the proposed project. Therefore, the project proponent has not submitted the alternate site study report for the proposed project as per the CPCB guidelines. Further, the proposed land is suitable for the proposed land-filling as per the CPCB guidelines.

9. The EAC, after deliberation observed that Forest Clearance vide application number FP/UK/OTHERS/485753/2024 has been submitted by the project proponent, the outcome of which is still awaited. It was opined that PP shall obtain land clearance from the Nagar Palika / Urban Development Department. The distance of river with respect to project, open water channel leading to M/s NHPC project was discussed to assess the likely impact.

10. Further, it was observed by the EAC that the PP shall provide the letter issued by the District Magistrate confirming the land allotment to the PP for the proposed MSWMF. Besides these, considering the provisions stipulated in the SWM Rules, it was directed that the PP should get the survey of the location done by accredited consultant. Also, considering the leachate generation for the next 20 years the Storm Water Management Plan was required to be submitted for further decision.

11. The EAC deliberated upon the information provided by the project proponent. After detailed deliberation, EAC recommended for grant of Terms of Reference (ToR) to the project subject to the specific ToR conditions in addition to the standard ToR conditions as specified by the Ministry for such projects for preparation of EIA/EMP report with Public Consultation.

12. As per the recommendations of the EAC (Infra-2), the Ministry of Environment, Forest and Climate Change hereby accords Terms of Reference for preparation of the Environment Impact Assessment (EIA) Report and Environment Management Plan (EMP) report with Public Consultation for Proposed Sanitary Landfill for Common Municipal Solid

Waste Management Facility (CMSWMF) at Chandfarm Road, Chuna Bhatta, P.O- Chandani, Banbasa, District Champawat, Uttarakhand by M/s Nagar Panchayat Banbasa, Champawat, Uttarakhand, under the provisions of EIA Notifications, 2006 and its amendments mentioned therein, with the above mentioned specific ToR in addition to General Guidelines and Standard ToR provided in **Annexure 1**.

General Guidelines:

- i. The EIA document shall be printed on both sides, as far as possible.
- ii. All documents should be properly indexed, page numbered.
- iii. Period/date of data collection should be clearly indicated.
- iv. Authenticated English translation of all material provided in Regional languages.
- v. The letter/application for EC should quote the MoEF&CC's File No. and also attach a copy of the letter prescribing the ToR.
- vi. The copy of the letter received from the Ministry on the ToR prescribed for the project should be attached as an annexure to the final EIA-EMP Report.
- vii. The final EIA-EMP report submitted to the Ministry must incorporate the issues mentioned in ToR. Issues and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
- viii. The index of the final EIA-EMP report, must indicate the specific chapter and page no. of the EIA-EMP Report where the specific ToR prescribed by Ministry. Questionnaire related to the project (posted on MoEF&CC website) with all sections duly filled in shall also be submitted at the time of applying for EC.
- ix. Grant of ToR does not mean grant of EC.
- x. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.
- xi. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed ToRs (ToR proposed by the project proponent and additional ToR given by the MoEF&CC) have been complied with and the data submitted is factually correct (Refer MoEF&CC Office memorandum dated 04.08.2009).
- xii. While submitting the EIA/EMP reports, the name of the experts associated with/involved in the preparation of these reports and the laboratories through which the samples have been got analysed should be stated in the report. It shall clearly be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and the rules made there under (Please refer MoEF&CC Office Memorandum dated 04.08.2009). The project leader of the EIA study shall also be mentioned.
- xiii. All the ToR points as presented before the Expert Appraisal Committee (EAC) shall be covered.

13. The above ToR should be considered for preparation of EIA/EMP report with Public Consultation for establishment of project as per the above details and in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

14. As stipulated in amendment notification No. S.O. 751(E) dated 17th February, 2020, the above ToR would be valid for a period of four years from the date of issue. The project proponent shall submit detailed final EIA Report and EMP prepared as per above ToR within the stipulated period of four years as per Ministry's OM issued vide F. No. IA3-22/10/2022-IA.III [E 177258] dated 08.06.2022.

15. As per amendment notification No. 648(E) dated 3rd March, 2016, the Environmental consultant organizations which are accredited for a particular sector and the category of project for that sector with the Quality Council of India (QCI) or National Accreditation Board for Education and Training (NABET) or any other agency as may be notified by the Ministry of Environment, Forest and Climate Change from time to time shall be allowed to prepare the EIA Report and EMP of a project and appear before the concerned EAC. The consultants involved in preparation of EIA Report would need to include a certificate in this regard in the EIA report and EMP prepared by them and details for data provided by other Organization(s)/ Laboratories including their status of approvals etc.

16. This issues with the approval of the competent authority.

Copy To

1. The Principal Secretary, Department of Environment, Government of Uttarakhand, Vishwakarma Bhawan, Dehradun - 248 001.
2. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, 25, Subhash Road, Dehradun - 248 001.
3. The Member Secretary, Uttarakhand Pollution Control Board, Gaura Devi Bhawan, 46 B IT Park, Sahastradhara, Dehradun, Uttarakhand – 248 001.

Annexure 1**Specific Terms of Reference for (Common Municipal Solid Waste Management Facility (Cmswmf))****1. Specific Condition**

S. No	Terms of Reference
1.1	The principal land clearance obtained from the Nagar Palika / Urban Development and submit a letter through District Collector/Magistrate/Commissioner stating that there is no alternate site except that of forest land, for this project.
1.2	The Project proponent is to submit Forest Clearance for the proposed project during the EC application.
1.3	Permission from the Army Cantonment for the setting up of such a CSWMF was required to be obtained
1.4	Relevant corrections in the EIA report for this proposed land from Non-Agriculture to Forest land.
1.5	Storm water drainage and leachate collection should be as per drainage map of the project area.
1.6	Importance and benefits of the project.
1.7	A sensitivity analysis of the site shall be carried out as per the MoEF&CC criteria and form part of the EIA report.
1.8	The EIA would include a separate chapter on the conformity of the proposals to the Municipal Solid Waste Management Rules, 2016 and the Construction and Demolition Waste Management Rules, 2016 including the sitting criteria therein.
1.9	Characteristics and source of waste to be handled and methodology for remediating the project site, which is presently being used for open dumping of garbage.
1.10	Details of storage and disposal of pre-processing and post-processing rejects/inerts.

S. No	Terms of Reference
1.11	List of proposed end receivers for the rejects/inerts should be provided. MoUs to be submitted in this regard.
1.12	Details of various waste management units with capacities for the proposed project. Details of utilities indicating size and capacity to be provided.
1.13	The EIA would also examine the impacts of the existing landfill site and include a chapter on the closure of the exiting site including disposal of accumulated wastes and capping.
1.14	The EIA study should include the impact of the existing land use (dumpsite) in terms of ground water quality and soil profile.
1.15	The project proponents should consult the Municipal solid waste Management manual of the Ministry of Urban Development, Government of India and draw up project plans accordingly.
1.16	Layout maps of proposed solid waste management facilities indicating storage area, plant area, greenbelt area, utilities etc.
1.17	Details of air emission, effluents generation, solid waste generation and their management.
1.18	Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
1.19	Process description along with major equipment's and machineries, process flow sheet (quantitative) from waste material to disposal to be provided.
1.20	Hazard identification and details of proposed safety systems.
1.21	Details of Drainage of the project upto 5 km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided.
1.22	Details of effluent treatment and recycling process.
1.23	Action plan for measures to be taken for excessive leachate generation during monsoon period.
1.24	Detailed Environmental Monitoring Plan.
1.25	Timeline for implementation of the project shall be included in the EIA Report.
1.26	Report on health and hygiene to be maintained by the sanitation workers at the work place.
1.27	A tabular chart with index for point wise compliance of above ToRs.

Standard Terms of Reference for (Common Municipal Solid Waste Management Facility (CMSWMF))

1. Project Details

S. No	Terms of Reference
1.1	Importance and benefits of the project.
1.2	The project should be designed based on the population projections as by Master Plan and in conformity to the Municipal Solid Waste Management Rules 2006 as amended from time to time.
1.3	Examine and submit details of alternative technologies viz. RDF shall also be evolved.
1.4	Examine and submit details of storm water/leachate collection from the composted area including leachate treatment options proposed.
1.5	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.
1.6	Submit the details of sanitary land fill site, impermeability and whether it would be lined, if so details thereof.
1.7	The EIA would include a separate chapter on the conformity of the proposals to the Municipal Solid Waste Management Rules, 2016 and the Construction and Demolition Waste Management Rules, 2016 including the sitting criteria therein.
1.8	Details of various waste management units with capacities for the proposed project. Details of utilities indicating size and capacity to be provided.
1.9	Details of storage and disposal of pre-processing and post-processing rejects/inerts.
1.10	List of proposed end receivers for the rejects/inerts should be provided. MoUs to be submitted in this regard.
1.11	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
1.12	NOC from local or nearest airport within 20 km and any flight funnel restrictions.
1.13	The project proponents should consult the Municipal solid waste Management manual of the Ministry of Housing and Urban Affairs, Government of India and draw up project plans accordingly.
1.14	Details of man-power requirement (regular and contract).
1.15	Process description along with major equipment's and machineries, process flow sheet (quantitative) from waste material to disposal to be provided.

2. Land Environment

S. No	Terms of Reference
2.1	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.
2.2	Submit a copy of the land use certificate from the competent authority.
2.3	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.
2.4	A sensitivity analysis of the site shall be carried out as per the CPCB site selection criteria and form part of the EIA report.
2.5	Post project reclamation management program with financial allocation.

3. Environmental Monitoring And Management

S. No	Terms of Reference
3.1	Examine and submit details of monitoring of water quality around the landfill site. Water analysis shall also include for nitrate and phosphate.
3.2	Examine and submit details of the odour control measures.
3.3	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.
3.4	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 H ₂ S, CH ₄).
3.5	Submit Environmental Management Plan and Environmental Monitoring Plan with costs and parameters.
3.6	Examine and submit the details of impact on environmental sensitive areas.
3.7	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.
3.8	Possible carbon footprint contribution from each activities and mitigation measures proposed shall be included as part of Environment Management Plan.

4. Water Environment

S. No	Terms of Reference
4.1	Examine and submit details of impact on water bodies/rivers/ ponds and mitigative measures during rainy season.
4.2	Examine and submit the details of surface hydrology and water regime and impact on the same.

5. Water Management

S. No	Terms of Reference
5.1	Requirement of water with source of supply, status of approval, water balance diagram.
5.2	Details of effluent treatment and reuse and recycling process.
5.3	Action plan for measures to be taken for excessive leachate generation during monsoon period.
5.4	Pre-project monitoring of ground water quality is required.

6. Waste Management

S. No	Terms of Reference
6.1	Submit the criteria for assessing waste generation. Any segregation of hazardous and bio- medical wastes. Submit a copy of detailed plan of waste management.

7. Drainage

S. No	Terms of Reference
7.1	Details of Drainage of the project upto 5 km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided.
7.2	Examine and submit the details of impact on the drainage and nearby habitats/settlements (surroundings).

8. Energy Requirement

S. No	Terms of Reference
8.1	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
8.2	Details of the adequate power back up facility, to meet the energy requirement in case of power failure from the grid.

9. Disaster Management Plan

S. No	Terms of Reference
9.1	Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
9.2	Risk and hazard identification and details of proposed mitigation measures.

10. Socio-economic Environment

S. No	Terms of Reference
10.1	Examine and submit the details of rehabilitation/compensation package for the project effected people, if any.
10.2	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.
10.3	Report on health and hygiene to be maintained for the sanitation workers at the work place.

11. Court Cases

S. No	Terms of Reference
11.1	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.