



File No: 10/66/2023
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 17/12/2023



To,

SHIV KUMAR
SHIV KUMAR
DGM-Bhagalpur Purnea Saharsa Cluster Bihar Industrial Area Development Authority 01st Floor ,
Gandhi Maidan (East) Patna - 800004 State Bihar, Patna, PATNA, BIHAR, 800004
dgm.bhagalpur@bihar.gov.in

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

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 Leather Cluster, Bheriadangi (A unit of Bihar Industrial Area Development Authority - BIADA) submitted to Ministry vide proposal number IA/BR/INFRA1/450410/2023 dated 11/12/2023.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO23B3102BR5279048N
(ii) File No.	10/66/2023
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	7(c) Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones ,4(f) Skin/hide processing including the tanning industry,7(h) Common Effluent Treatment Plants (CETPs),4(f) Skin/hide processing including the tanning industry
(vi) Sector	INFRA-1
(vii) Name of Project	Leather Cluster, Bheriadangi (A unit of Bihar Industrial Area Development Authority - BIADA)
(viii) Name of Company/Organization	SHIV KUMAR
(ix) Location of Project (District, State)	KISHANGANJ, BIHAR
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	yes
(xiii) Applicability of Specific Conditions	yes

1. The proposal is for development of Leather Cluster over an area of 13.667 ha located at Bheriadangi, kishanganj District, Bihar by Bihar Industrial Area Development Authority (BIADA). The Geo-coordinates of project site is Latitude: 26° 7'31.01"N to 26° 7'43.82"N"; Longitude: 87°54'43.95"E to 87°55'4.11"E.
2. The proposed project falls under Schedule 7(c), Industrial Estates /Parks /SEZ etc and category 'A' of EIA Notification 2006, as attracts general condition due to the project located within 5km. radius of state Border of Bihar and Westbengal. The total cost of the project is Rs. 50 Crores.
3. Land use/ Landover of project site:

S.no.	Landuse/Landcover	Area (ha)	Percentage(%)	Remarks, if any
1	Vacant Govt. Land	13.667	100%	Notified by Industry Deptt., Govt. of Bihar as Leather Cluster

1. List to industries to be housed with the proposed project site, covered under EIA Notification, 2006 are Tannery Projects (4-f) and CETP (7-h).
2. Terrain and topographical features: The proposed site is Plain Area.
3. Details of water bodies, impact on drainage: Mahanandriver 0.75km in west directions of the project site.
4. Water requirements: 5 KLD and during Operation Stage: 1800 KLD. NOC from CGWB will be obtained after grant of EC.
5. Waste Management: CETP: Provide details type and quantity of effluent, effluent conveyance system from the member units to CETP with CETP's Capacity. STP: Provide details of treatment and usage of treated sewage with STP's capacity.
6. Details of tree cutting: The proposed project will not involved any tree cutting..
7. Diversion of Forest land: The proposed project does not involved any forest land. The proposed site is not located within 10 km of Protected Areas (PA) including National Parks, Sanctuaries and Tiger Reserves etc and Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified.
8. R& R issues involved: The proposed project site is Govt land and does not involved R&R issues.
9. Employment potential: The proposed project will create total 100-150 people.
10. Benefits of the project: Employment opportunities will be generated and Revenue for Govt.
11. Details of Court cases: There are no court cases against the project.
12. The EAC, taking into account the submission made by the project proponent has a detailed deliberation and **recommended** the proposal for grant of Terms of Reference (ToR) with the specific conditions, as mentioned below, in addition to all standard conditions applicable for such projects:

Based on the deliberations in the meeting and information provided by the proponent in support of the project, the EAC recommended for grant of TOR. As per the recommendation of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords TOR for 'development of Leather Cluster over an area of 13.667 ha located at Bheriadangi, kishanganj District, Bihar by M/s Bihar Industrial Area Development Authority (BIADA)' and for preparation of EIA/EMP report with public consultations subject to compliance of all conditions as notified in the standard ToR applicable for highways and specific conditions, as mentioned below-

1. A detailed draft EIA/EMP report shall be prepared in terms of the above additional TOR and should be submitted to the State Pollution Control Board for Public Hearing. Public Hearing to be conducted for the project in accordance with the 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 shall be conducted based on the TOR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the website.

2. The project proponent shall submit the detailed final EIA/EMP report prepared as per TOR including issues raised during Public Hearing to the Ministry for considering the proposal for environmental clearance before expiry of validity of TOR.
3. The consultants involved in preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCFNABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. vide notification of the MoEF dated 19th July, 2013.
4. The prescribed TOR would be valid for a period of four years for submission of the EIA/EMP Reports.
5. This issues with the approval of the Competent Authority.

Copy To

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Bungalow No. A-2, Shyamali Colony, Ranchi – 834002.
2. Bihar State Pollution Control Board, Parivesh Bhawan, Plot No. Ns-B/2, Paliputra Industrial Area, Patliputra, Patna (Bihar) - 800 010.
3. PARIVEH Portal.
4. Guard file.

Annexure 1

Specific Terms of Reference for (Skin/hide Processing Including The Tanning Industry)

1. Specific Conditions

S. No	Terms of Reference
1.1	1. As the project relates to tanning of leather, the project proponent shall submit the details measures taken to mitigate the foul odour impact and disposal/ recycling of Brine/ salt water as per CPCB/SPCB Standard/Guidelines. 2. Hazardous waste generated from tannery shall be listed and an action plan for hazardous waste disposal shall be submitted. 3. Water balancing chart and its resources for obtaining the ground water shall be submitted. 4. The proposed project shall explore to design the "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. 5. The PP may use Sulphuric acid, Hydrochloric acid, chromium salt and ammonium chloride for leather production. Therefore, airborne exposure to acid fumes and chromium dust assessment has to be carried out. 6. Details parameters to be taken for control the bad odour generates from the leather park. 7. The planning of Industrial Estate should be based on the criteria mentioned in this Ministry's Technical EIA Guidance Manual for Industrial Estate (2009) as well as CPCB's Zoning Atlas

S. No	Terms of Reference
	Guidelines for siting industries. 8. Detailed air quality study for each point source to be conducted alongwith the Micro metallurgical data. 9. Wherever possible, plantations around the periphery of the industrial area/SEZ/park, in the downwind direction and along the road sides shall be provided for containment of pollution and for formation of a screen between the industrial area and the outer civil area. The choice of plants should include shrubs of height 1 to 1.5 m and tree of 3 to 5 m height. The intermixing of trees and shrubs should be such that the foliage area density in vertical is almost uniform. The layout plan shall be submitted accordingly. 10. Provide detailed water balance statement a scheme to achieve ZLD by each industrial unit as well as for utilization of treated sewage. 11. A detailed hydro geological study on the catchment area of the drainage system within core zone and at least 5km perimeter of the project area. 12. As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 30th September, 2020, the activities proposed by the project proponent, based on the commitment made in the public hearing shall be incorporated in the Environmental Management Plan along with the cost estimates and submit to the Ministry. All other activities including pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV, Compensatory Aforestation etc, envisaged by the project proponent based on the social impact assessment and R&R action plan carried out during the preparation of EIA report, shall be detailed out along with the cost estimates and become part of EMP. Focus should also be kept for local floral and fauna biodiversity. Plan for afforestation should be such that it is free from pesticides with flowering plants of native species for attracting bees and insects which in turn is beneficial to the agriculture. Farmers around the project site shall be involved in developing such an afforestation Plan.

Standard Terms of Reference for

1. Preliminary Requirements

S. No	Terms of Reference
1.1	EIA/EMP report cover page shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.
1.2	Besides, following points shall be compiled as per QCI/NABET norms: a. Disclaimer by the EIA consultant. b. Declaration by the Functional Area Experts contributed to the EIA study and declaration by the head of the accredited consultant organization/authorized person. c. Undertaking by the project proponent owning the contents (information and data) of the EIA/EMP report. d. Undertaking by the EIA consultant regarding compliance of ToR issued by MoEF&CC. e. Consultant shall submit the Plagiarism Certificate for the EIA/EMP Report.

2. Executive Summary

S. No	Terms of Reference
2.1	Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
2.2	Point wise compliance to the ToR issued by MoEF&CC.

2.1 Introduction

S. No	Terms of Reference
2.1.1	Name of the project along with applicable schedule and category as per EIA, 2006.
2.1.2	Location and accessibility

2.2 Environment Management Plan

S. No	Terms of Reference
2.2.1	Air quality management plan
2.2.2	Solid and hazardous waste management plan
2.2.3	Effluent management plan
2.2.4	Storm water management plan
2.2.5	Occupational health and safety management plan
2.2.6	Green belt development plan
2.2.7	Socio-economic management plan
2.2.8	Project cost and EMP implementation budget.

3. Introduction

S. No	Terms of Reference
3.1	Background about the project
3.2	Need of the project
3.3	Purpose of the EIA study
3.4	Scope of the EIA study

4. Project Description

4.1 Site Details

S. No	Terms of Reference
4.1.1	Location of the project site covering village, Taluka/Tehsil, District and State.
4.1.2	Site accessibility
4.1.3	A digital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
4.1.4	Latest High-resolution satellite image data having 1 m - 5 m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100 m all around the project location.
4.1.5	Environment settings of the site and its surrounding along with map.
4.1.6	A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
4.1.7	In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
4.1.8	In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
4.1.9	In case of canal/ nala/ seasonal drain and any other water body passing through project site, the PP shall submit the suitable steps /conservation plan/mitigation measures along with contouring, Run -off calculations, disposal etc. A robust and full proof Drainage Conservation scheme to protect the natural drainage/water bodies and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided in the report.
4.1.10	Type of land, land use of the project site needs to be submitted.
4.1.11	Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
4.1.12	Project proponent shall prepare Engineering layout plan showing all internal roads minimum 6 m width and 9 m turning radius for smooth traffic flow inside including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
4.1.13	Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including Rain Water Harvesting details with calculations mentioning about GW recharge along with relevant

S. No	Terms of Reference
	drawing.
4.1.14	A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.
4.1.15	Details of drone survey for the site, needs to be included in report and presented before the EAC during appraisal of the project.

4.2 Forest And Wildlife Related Issues (If Applicable)

S. No	Terms of Reference
4.2.1	Status of Forest Clearance for the use of forest land shall be submitted.
4.2.2	Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10 km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
4.2.3	The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
4.2.4	Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna along with budget and action plan, if any exists in the study area.

4.3 Salient Features Of The Project

S. No	Terms of Reference
4.3.1	Products with capacities in Tons per Annum for the proposed project.
4.3.2	If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
4.3.3	Site preparatory activities.
4.3.4	List of raw materials required and their source along with mode of transportation.
4.3.5	Other than raw materials, other chemicals and materials required with quantities and storage capacities.
4.3.6	Manufacturing process details along with process flow diagram of proposed units.
4.3.7	Consolidated materials and energy balance for the project.
4.3.8	Total requirement of surface/ ground water and power with their respective sources, status of

S. No	Terms of Reference
	approval.
4.3.9	Water balance diagram
4.3.10	Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
4.3.11	Man-power requirement.
4.3.12	Cost of project and scheduled time of completion.
4.3.13	In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.
4.3.14	Brief on present status of compliance (Expansion/modernization proposals) a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out. b. Cumulative Impact Assessment need to be carried out by greenfield projects considering the nearby industries. c. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next two years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source. d. Copy of all the Environment Clearance(s) including Amendments/validity of extension/transfer of EC, there to obtained for the project from MoEF&CC/SEIAA shall be attached as Annexures. A Certified Compliance Report (CCR) of the Integrated Regional Office of the Ministry of Environment, Forest and Climate Change/ or concerned authority as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided. A Certified Compliance Report (CCR) issued by the concerned Authority shall be valid for a period of one year from the date of inspection. e. In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. A proper justification needs to be submitted along with documentary proof. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 1994 or 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of CTO from the Regional Office of the SPCB shall be submitted, as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022. CCR on CTO conditions issued by the concerned SPCBs/PCCs shall be valid for a period of one year from the date of inspection of the project.

5. Anticipated Environment Impacts And Mitigation Measures (In Case Of Expansion, Cumulative Impact Assessment Shall Be Carried Out)

S. No	Terms of Reference												
5.1	Identification of potential impacts in the form of a matrix for the construction and operation phase for all the environment components <table><tr><th>Activity</th><th>Environment</th><th>Ecological</th><th>Socio-economic</th></tr><tr><td>Construction phase</td><td></td><td></td><td></td></tr><tr><td>Operation phase</td><td></td><td></td><td></td></tr></table>	Activity	Environment	Ecological	Socio-economic	Construction phase				Operation phase			
Activity	Environment	Ecological	Socio-economic										
Construction phase													
Operation phase													

S. No	Terms of Reference
5.2	Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase • Details of stack emissions from the existing as well as proposed activity. • Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period • Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.
5.3	Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.4	Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.5	Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.6	Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.7	Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.8	Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.9	Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.10	Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
5.11	Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase

6. Analysis Of Alternatives (Technology & Site)

S. No	Terms of Reference
6.1	No project scenario
6.2	Site alternative
6.3	Technical and social concerns
6.4	Conclusion

7. Environmental Monitoring Program

S. No	Terms of Reference																		
7.1	Details of the Environment Management Cell																		
7.2	Performance monitoring schedule for all pollution control devices shall be furnished.																		
7.3	Corporate Environment Policy a. 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. b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA. c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given. Page 9 of 10 d. Does the company have system of reporting of non compliances / violations of environment 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																		
7.4	Action plan for post-project environment monitoring matrix: <table><thead><tr><th>Activity</th><th>Aspect</th><th>Monitoring Parameter</th><th>Location</th><th>Frequency</th><th>Responsibility</th></tr></thead><tbody><tr><td colspan="6">Construction phase</td></tr><tr><td colspan="6">Operation phase</td></tr></tbody></table>	Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility	Construction phase						Operation phase					
Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility														
Construction phase																			
Operation phase																			

8. Environment Cost Benefit Analysis

S. No	Terms of Reference
8.1	Net present value
8.2	Internal rate of return
8.3	Benefit cost ratio
8.4	Cost effectiveness analysis

9. Environment Management Plan (Construction And Operation Phase)

S. No	Terms of Reference
9.1	Action plan for hazardous waste management
9.2	Action plan for solid waste management
9.3	Action plan for e-waste management.

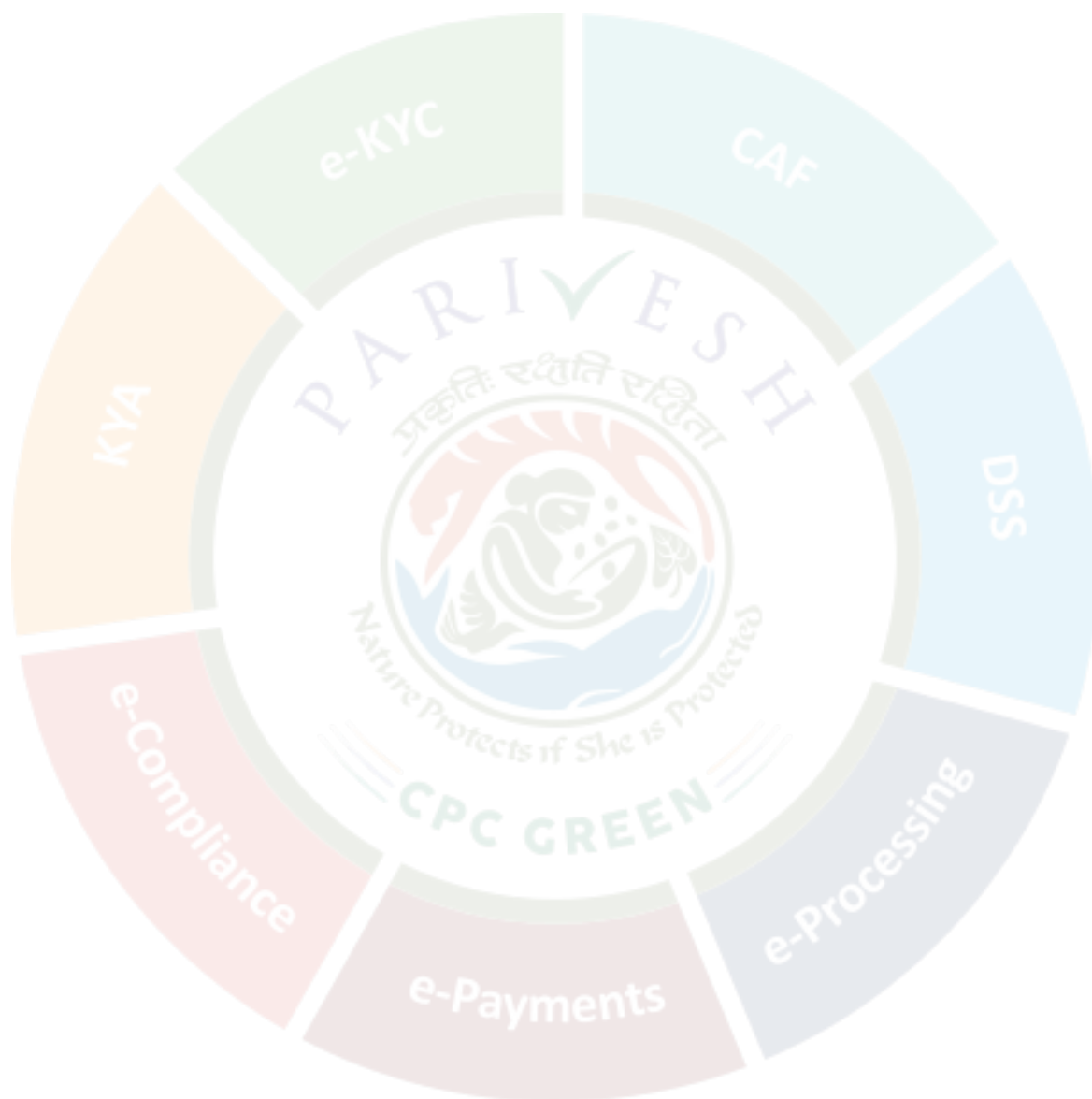
S. No	Terms of Reference
9.4	Action plan for plastic waste management, considering the Plastic Waste Management Rules 2016.
9.5	Action plan for construction and demolition waste management.
9.6	Rain water harvesting plan
9.7	Plan for maximum usage of waste water/treated water in the Unit
9.8	Green belt development plan: An action plan for Green Belt development consisting of 3 tiers of plantations of native species all along the periphery of the project of adequate width shall be raised in 33% of total area with a tree density shall not less than 2500 per ha within a time frame of one year shall be submitted. Survival rate of green belt shall be monitored on periodic basis to ensure that survival rate not be less than 80 %.
9.9	Wildlife conservation plan (In case of presence of schedule I species)
9.10	Total capital cost and recurring cost/annum for environment pollution control measures shall be included.
9.11	Explore possibilities for recycling and reusing of treated water in the unit to reduce the freshwater demand and waste disposal.
9.12	An Action Plan for improving the house-keeping activities in the raw material handling area need to be submitted
9.13	Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
9.14	Action plan to limit the dust emission from all the stacks below 30 mg/Nm ³ shall be furnished.
9.15	Action plan for fugitive emission control in the plant premises shall be provided.

Standard Terms of Reference for (Skin/hide processing including the tanning industry)

1.

S. No	Terms of Reference
1.1	Justification for engaging a particular type of process (raw hide/skin into semi finishing or finished leather, semi-finished leather to finished leather, dry finishing operations, chrome/vegetable tanning, etc.).
1.2	Details regarding complete leather/ skin/ hide processing including the usage of sulphides, nitrogen compounds, chromium or other tanning agents, post-tanning chemicals, biocides, etc., along with the material balance shall be provided.
1.3	In case of chrome tanning, details of the chrome recovery plant, management of shavings/solid waste including safe disposal.

S. No	Terms of Reference
1.4	Details on reuse of soak liquor / saline stream from membrane system, if applicable, to the extent possible in pickling activity after required treatment. Also, mention the salt recovery measures.
1.5	Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm ³ shall be furnished.
1.6	Action plan for 100 % waste utilization shall be submitted.



Signature Not Verified

Digitally Signed by : Dr Amardeep Raju
Member Secretary, MoEFCC (EC)

Date: 17/12/2023