



File No: 271/2024
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), KERALA)



Date 26/01/2026



To,

The Chief Executive Officer
M/s Kerala Maritime Board
M/s Kerala Maritime Board, Valiyathura, Vallakadavu P.O, Thiruvananthapuram-695008
ceo.kmb@kerala.gov.in

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA, Kerala vide proposal number SIA/KL/INFRA1/501237/2024 dated 17/10/2024 for grant of prior Environmental Clearance (EC) to the proposed project - Manual Dredging at Azhikkal Port Limits for Maintaining Navigational Channel Depth and Filtration of Dredged Sand, under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B3504KL5370071N
(ii) File No.	271/2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	7(e) Ports, harbors, breakwaters, dredging
(vii) Name of Project	Manual Dredging at Azhikkal Port Limits for Maintaining Navigational Channel Depth and Filtration of Dredged Sand at Kadavus.
(viii) Name of Company/Organization	M/s Kerala Maritime Board
(ix) Location of Project (District, State)	Kannur, Kerala
(x) Issuing Authority	SEIAA, Kerala
(xi) Applicability of General Conditions as per EIA Notification, 2006	Yes

In view of the particulars given in Para above, the project proposal interalia including Form-1, Part A, B & C submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority (SEIAA), Kerala under the provision

of EIA notification 2006 and its subsequent amendments.

The above-mentioned proposal has been considered by the State Expert Appraisal Committee (SEAC) in its 184th SEAC meeting held on 14th October 2025 and the SEIAA in its 159th meeting held on 18th November, 2025. The minutes of the meeting and all the application and documents submitted [(viz. Form-1, EIA report)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

The brief about project details, the Environmental Management Plan and Corporate Environment Responsibility (CER) to be implemented or followed are annexed to this EC.

The SEAC, in its 184th meeting, based on the information & clarifications provided by the project proponent, deliberated the proposal in detail, and recommended for grant of EC for 5 (Five) Years, subject to stipulation of specific and general conditions as detailed in Annexure.

The SEIAA examined the proposal in its 159th meeting in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC decided to grant combined Environmental and CRZ Clearance for instant proposal of The Chief Executive Officer, Kerala Maritime Board (KMB), Valiyathura, Vallakadavu PO, Thiruvananthapuram, under the provisions of EIA Notification, 2006 and as amended thereof.

Combined Environmental and CRZ Clearance is hereby accorded to the Chief Executive Officer, Kerala Maritime Board, Valiyathura Vallakadavu P.O, Thiruvananthapuram for the Manual Dredging at Azhikkal Port Limits for Maintaining Navigational Channel Depth and Filtration of Dredged Sand at Kadavus for the project life of 5 (five) years for the below mentioned locations subject to the General Conditions and certain specific conditions.

No.	Point Name	Lat	Long
1	Thoniyan Kadavu	11°56'14.68"N	75°19'34.44"E
2	Thoonoli 1	11°55'56.17"N	75°20'15.39"E
3	Thoonoli 2	11°55'56.87"N	75°20'14.00"E
4	Thoonoli 3	11°55'58.18"N	75°20'11.98"E
5	CN plywood	11°55'50.16"N	75°20'26.34"E
6	JASS	11°55'48.49 "N	75°20'54.49"E
7	Winner	11°55'49.06"N	75°21'03.33"E
8	BTW1	11°56'04.22"N	75°21'05.43"E
9	BTW 2	11°56'04.45"N	75°21'08.23"E
10	MTL 1	11°56'59.23"N	75°18'48.13"E
11	MTL 2	11°57'00.62"N	75°18'48.25"E

The Environmental & CRZ Clearance issued will also be subject to full and effective implementation of all the undertakings given in the Application Form, mitigation measures as assured in the EIA study report as submitted with the application. Also the General Conditions for projects stipulated for dredging, mentioned below will be applicable and have to be strictly adhered to.

Validity of the Combined Environmental and CRZ Clearance will be for 5 (Five) Years, subject to the earlier review by SEAC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

Violation of any of the Specific & General Conditions, as applicable to the particular case will entail cancellation of the Environmental Clearance, in addition to legal action under the provisions of the Environment (Protection) Act, 1986. Non-compliance, if any shall be reported to the District Collector, Kannur or SEIAA, Kerala.

The Ministry / SEIAA, Kerala reserves the right to modify and/or stipulate additional conditions, if found necessary.

The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is

under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

This issues with the approval of the Competent Authority.

Copy To

MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034 (through e-mail: ros.bng-mefcc@gov.in).

The Secretary to Government, Environment Department, Government of Kerala.

The Member Secretary, Kerala Coastal Zone Management Authority, 4th Floor, KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala- 695 001.

The Director, Directorate of Environment & Climate Change, 4th Floor, KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala- 695 001.

The District Collector, Kannur

The Director, Mining & Geology, Thiruvananthapuram -4.

The Member Secretary, Kerala State Pollution Control Board.

The District Geologist, Kannur

The Environment Enginner, KSPCB, Kannur

The Chairman, SEIAA, Kerala.

Website.

S/F/O/C

Annexure 1

Specific EC Conditions for (Ports, Harbors, Breakwaters, Dredging)

1. Site Specific Conditions

S. No	EC Conditions
1.1	The PP shall follow all safeguards as proposed in the National Framework for Sediment Management issued by the Ministry of Jal Shakti, Department of Water Resources, as enclosed to the Office Memorandum dated 12.07.2023.
1.2	Dredging shall be strictly limited to the approved navigational channel area within Azhikkal Port limits and to the quantity and depth specified in the approved Mining Plan ($\approx 3.5\text{--}4\text{ m}$ depth).
1.3	All conditions prescribed in the CRZ clearance shall form an integral part of this Environmental Clearance (EC), and the project proponent is required to ensure strict compliance with each of these conditions.
1.4	Dredged sand shall be filtered only at designated Kadavu sites approved by Kerala Maritime Board (KMB) and concerned local bodies.
1.5	Dredging is prohibited during monsoon/high turbidity/tidal periods and during identified peak fish breeding periods.
1.6	Manual dredging shall be done in a controlled manner; continuous dredging shall be avoided to allow turbidity to settle. Mechanised/motorised suction dredgers are not permitted within the approved kadavus/channel stretches.

S. No	EC Conditions
1.7	Dumping of dredged waste, clay, or shells into the river or surrounding mangroves is strictly prohibited. Residual materials must be collected and disposed of at approved locations.
1.8	No dredging or filtration activity is allowed within identified critical habitats (mangroves, seagrass beds, coral patches) or in legally protected areas.
1.9	A detailed baseline bathymetric survey, nearshore topographic survey and sediment analysis for all proposed kadavus and navigational channel stretches within the Port limits shall be carried out and submitted along with HYCR.
1.10	Periodic Air, Sediment and Water quality analysis report shall be submitted along with the HYCR.
1.11	The biological and biophysical changes of the aquatic ecosystem shall be monitored periodically and submit the report along with the HYCR.
1.12	If the dredging activity affects the clam beds, measures shall be taken by the PP to relay the bed in appropriate sites. The details of the designated site along with its geo-coordinates shall be provided along with the HYCR.
1.13	Filtration/settling operations at Kadavus shall use closed or lined filtration/pond systems with overflow routed to the sea only after meeting turbidity and suspended solids limits as per the prescribed standards.
1.14	The filtrate water from sand washing at Kadavus shall be drained only after settlement; no untreated discharge into the river shall be allowed.
1.15	Dust suppression and green barricades (green net) shall be provided around Kadavus adjacent to public roads to prevent dust dispersion.
1.16	Manage vehicle/truck movement routes to minimize disruption in coastal hamlets and avoid beach access points used by fishers; provide wheel-wash and dust suppression at loading points.
1.17	Workers must use appropriate PPE, such as helmets, gloves, eye protection and life jackets during the operation phase of the project.
1.18	All dredging equipment, vessels, and platforms must undergo regular safety inspections and maintenance. Proper signage and safety features, like emergency shutdown systems, are also required.
1.19	The project must have a clear emergency response plan in place for incidents like equipment failure, spills, strong currents or medical emergencies. An Emergency Management Cell (EMC) shall be constituted before the operation phase towards better coordination and implementation of disaster management measures.
1.20	For safety, the dredging area must be properly marked with signage, buoys and lights.
1.21	Measures must be taken to mitigate harm to local livelihoods, such as local fishers who could be affected by the project implementation.

S. No	EC Conditions
1.22	The Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
1.23	After completion of dredging, site-specific restoration (re-grading, re-vegetation of disturbed shorelines, if any, removal of temporary structures) must be completed and a post-project environmental compliance certificate issued by KCZMA/KSPCB after verification.
1.24	If any violations are found during the project, the project proponent will be liable to pay environmental compensation and carry out remedial actions as directed by KCZMA/SEIAA

Standard EC Conditions for (Ports, harbors, breakwaters, dredging)

1. Statutory Compliance

S. No	EC Conditions
1.1	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
1.2	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
1.3	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations, covering upwind and downwind directions.
2.2	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
2.3	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.
2.4	The Vessels shall comply the emission norms prescribed from time to time.
2.5	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG

S. No	EC Conditions
	sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
2.6	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.
3.2	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.
3.3	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.
3.4	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
3.5	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.
3.6	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.
3.7	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
3.8	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.
3.9	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.

S. No	EC Conditions
3.10	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
3.11	All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.2	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
4.4	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Provide LED lights in offices and project areas.

6. Waste Management

S. No	EC Conditions
6.1	Dredged material shall be disposed safely in the designated areas.
6.2	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring reports.
6.3	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
6.4	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.

S. No	EC Conditions
6.5	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
6.6	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
6.7	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered.

7. Marine Ecology

S. No	EC Conditions
7.1	Dredging shall not be carried out during the fish breeding and spawning seasons.
7.2	Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.
7.3	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.
7.4	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.
7.5	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.
7.6	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.

8. Public Hearing And Human Health Issues

S. No	EC Conditions
8.1	The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.
8.2	Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.

S. No	EC Conditions
8.3	In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDF.
8.4	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/accidents.
8.5	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
8.6	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
8.7	Occupational health surveillance of the workers shall be done on a regular basis.

9. Environment Responsibility

S. No	EC Conditions
9.1	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
9.2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
9.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
9.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

10. Miscellaneous

S. No	EC Conditions
10.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
10.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
10.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
10.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
10.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
10.6	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
10.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10.8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.9	No further expansion or modifications in the project shall be carried out without prior approval of the SEIAA/ Ministry of Environment, Forests and Climate Change (MoEF&CC).
10.10	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
10.11	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
10.12	The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10.13	The Regional Office of the MoEF&CC and SEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the

S. No	EC Conditions
	Regional Office by furnishing the requisite data / information/monitoring reports.
10.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
10.15	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Sand	By-Product	264751	Tons per Annum (TPA)	Road	

I. PROJECT DETAILS

Sl. No.	Particulars	Details			
1.	Name & Address of the Project Proponent	The Chief Executive Officer, Kerala Maritime Board Valiyathura, Vallakadavu PO. Thiruvananthapuram – 695008			
2.	Village	Azhikode North, Mattul, Pappinissery, Valapattanam			
3.	District	Kannur			
4.	Location	No.	Point Name	Lat	Long
		1	Thoniyar Kadavu	11°56'14.68"N	75°19'34.44"E
		2	Thoonoli 1	11°55'56.17"N	75°20'15.39"E
		3	Thoonoli 2	11°55'56.87"N	75°20'14.00"E
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		10	MTL 1	11°56'59.23"N	75°18'48.13"E
		11	MTL 2	11°57'00.62"N	75°18'48.25"E
5.	Project Cost	₹ 2135 Lakh			
6.	Validity of EC	5 (Five) years			

II. EMP Details

Sl. No.	Activities	Amount in Rs.
1.	All tippers fixed with speed limiter equipment. Kadavus near to road should provide green net/barricade so that dust arising inside the kadavus will not reach the public	9,50,000.00
2.	Vehicles hired shall confirm to the noise and exhaust emission and their movements shall be regulated during peak hours. Noisy activities shall be done between 06.00-18.00 hrs avoiding multiple noise generating works/activities simultaneously	7,20,000.00 per year
3.	Servicing of construction vehicles and machinery	2,00,000.00 per year
4.	Ear Protection devices	5,000.00 per year
5.	Green fencing	5,00,000.00
6.	Proper removing/reusing of clay and sea shell waste	25,00,000.00
7.	Solid waste collection, segregation, reuse, and disposal	25,00,000.00
Total		110,25,000.00