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Ref: NL (O)/ENV/2026-27/ 153

Date: 22.05.2026

To

Addl. Principal Chief Conservator of Forests (C)

The Ministry of Environment, Forest & Climate Change,
Eastern Regional Office,
A/3, Chandrasekharpur,
BHUBANESWAR-751023

**SUB: HALF YEARLY COMPLIANCE REPORT ON STATUS OF IMPLEMENTATION OF THE
CONDITIONS AND ENVIRONMENTAL SAFEGUARDS.**

Dear Sir,

With reference to above, we submit herewith our half yearly compliance for the period October-2025 to March-2026 supported by following documents.

1. *Point wise compliance to the conditions of Environmental Clearance No. J-13012/69/2011-1A.II (T) dated 23.01.2012 of the expansion unit i.e., 2nd 64 MW Power Plant and amendment of Environmental Clearance (EC) for change in source of coal from imported to domestic on dated 02.02.2015.*
2. *Point wise compliance to the conditions of Environmental Clearance No. J-13011/32/2007-1A II (T) dated 28.09.2007 of the expansion of 30 MW to 94 MW Plants.*
3. *Point wise compliance to the conditions of Environmental Clearance No. J-11011 / 1309/2007-1A II (I) dated 14.07.2008 of the Ferro Alloy Plant.*

Thanking you,

Yours truly,

For **NAVA LTD.**

(Formerly Known as Nava Bharat Ventures Ltd.)



(Raja Sekhara Rao V)

Vice President-Odisha Operations

Encl: as above.

Copy submitted to: (i) **The Regional Director**, Central Pollution Control Board, Eastern Zonal Office, Southend Conclave, Block-502, 5th & 6th floor, 1582, Rajdanga Main Road, KOLKATA-700107. (ii) **The Member Secretary**, SPCB, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar-751012 (iii) **The Regional Officer**, OSPB, S-3/3, Industrial Estate, Hakimpada, Angul-759143 for kind information.

Name of the Project : **NAVA LIMITED,**
(Formerly Known as Nava Bharat Ventures Ltd.)
Kharagprasad, Dist: Dhenkanal (Odisha)
FERRO ALLOY PLANT

Clearance Letter/s No. and date : J-11011/1309/2007-IA.II (I) DATED 14TH JULY 2008
(Expansion of the Capacity of Ferro Alloy Plant From 50000 TPA to 75000 TPA)

Period of Compliance Report : **October-2025 to March-2026**

Specific Conditions:

Sl. No.	Conditions	Compliance Status
i)	Continuous monitoring facilities for all the stacks and adequate air pollution control equipments viz. Fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 100 mg/Nm ³ and shall be discharged in to the atmosphere through stacks of adequate height as per CPCB guidelines. The Orissa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit. Monitoring data shall be submitted to the Ministry's Regional Office at Bhubaneswar and the OPCB, CPCB once in six months.	Continuous Emission Monitoring System installed in the GCP of Ferro Alloy Plant and these are connected with SPCB server. Adequate air pollution control equipments like Fume extraction system, ID fan and Gas Cleaning Plant (GCP) are provided to control emissions below 100 mg/Nm ³ .
ii)	Gas cleaning plant with bag filters shall be provided to control emissions. Individual stacks of furnaces shall be connected to individual pulse jet bag filters supported by cyclones to dryers of the chrome ore plant. The bag houses shall be provided to collect fine dust. Dust suppression system like water spraying shall be provided at unloading and raw material handling areas to control fugitive dust emissions to meet the OPCB norms. Water spraying shall also be done to prevent the dust	Gas cleaning plants (GCP) are provided with bag filters to control emissions in furnace. The stack is connected to pulse jet bag filters supported by cyclones to dryers of the Ferro Alloy plant. The bag houses are also provided to collect fine dust. Dust suppression system like water spraying is provided at unloading and raw material handling areas to control fugitive dust emissions to meet

	emission due to vehicular movement.	the SPCB norms. Water spraying is done regularly to prevent the dust emission due to vehicular movement.
iii)	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/ Code of Practice issued by the CPCB shall be followed.	Secondary fugitive emissions from all the sources are controlled within the permissible limits issued by the Ministry and regularly monitored. Guidelines/ Code of Practice issued by the CPCB are being followed.
iv)	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	It is being followed by us.
v)	Total water requirement from River Brahmani shall not exceed 850 m ³ /day. Closed circuit cooling system shall be adopted to reduce water consumption. Cooling under blow down shall be treated and all the treated wastewater shall be used for dust suppression, green belt development and other plant related activities within the plant premises. No wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic wastewater shall be treated in septic tanks followed by soak pit system.	Total water requirement from River Brahmani does not exceed 850 m ³ /day. Closed circuit cooling system is adopted to reduce water consumption. Cooling under blow down is being treated and all the treated wastewater is used for dust suppression, green belt development and other plant related activities within the plant premises. No wastewater is discharged outside the factory premises and zero discharge is being adopted. Domestic wastewater is treated in septic tanks followed by soak pit system.
vi)	Prior permission for the drawl of 850m ³ /day water from River Brahmani shall be obtained from the concerned department.	Permission obtained from the Water Resource Department.
vii)	Proper handling, storage, utilisation and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	All hazardous wastes are handled & disposed as per the Hazardous Waste Management, handling & Transboundary Movement Rules 2016 and its subsequent amendments. Periodical reports on the same are submitted to SPCB, Odisha.
viii)	All the Ferro alloy slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leach ability Potential (TCLP) test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as	After recovery of metals in Metal Recovery Plant, Slag is utilized for land filling, road concreting and other civil work. TCLP Test is being carried out periodically to ensure the CPCB norms/Guideline.

	per CPCB guidelines.	
ix)	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn). Sludge generated from wastewater treatment plant shall be dumped in designated area only. Dust from bag house/filters shall be collected in silo by pneumatic conveying and reused for manufacturing bricks. All the other solid waste shall be properly disposed off in environment friendly manner. No hazardous materials shall be spilled out and good housekeeping practices shall be adopted. Used oil shall be sold to recyclers / reproprocessors.	Flue Gas Cleaning residue is being mixed and reused along with the ore. Granulation fines are used as substitute of sand for making fly ash brick. All other solid wastes are disposed in environment friendly manner. Used and waste oil disposed to the authorized recyclers/ processors only.
x)	As proposed, green belt shall be developed in at least 33% area within and around the plant premises as per the CPCB guidelines in consultation with DFO.	We have already achieved around 36% for developing green belt within/around the plant premises. Annexure-4
xi)	Permission and recommendations regarding impact of the proposed plant on the Jharbandha RF (4.2 km., S) and Nimidha RF (5 km., ESE) located within 10 km radius of the project site shall be obtained and implemented.	Since the preparation of EIA/EMP was exempted by MOEF vide letter No. J11011/1309/2007-IA II (I) dated 14.07.2008 (Clause No. 5.0) while issuing the environmental clearance, the impact assessment has not been carried out.
xii)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro Alloy Plants shall be strictly implemented.	We follow and implement all the measures as recommended in the CREP guidelines as applicable for the Integrated Iron & Steel Industry.

General Conditions

i)	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and State Government.	Noted
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted
iii)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, OPCB and CPCB once in six months.	We have already installed three number Continuous Ambient Air Quality Monitoring Station equipped with SO ₂ , NO _x , PM ₁₀ and PM _{2.5} analysers in the appropriate location with consultation with SPCB. These stations cover both Power Plants and Ferro Alloy Plant and these are connected with SPCB server. Beside that we also established four stations

		for manual monitoring of AAQ. Manual AAQ Monitoring report submitted in Annexure-3
iv)	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fume and dust extraction system with bag filters shall be provided at the transfer and discharge points to control fugitive emissions. Further, specific measures like water sprinkling around the raw material storage areas and asphaltting or concreting of the roads shall be done to control fugitive emissions.	Controlling fugitive dust emissions through mechanised water sprinkling system provided at different areas like roads, yards, finished product shed etc. In addition, provided dust extraction system in the raw material Circuit. In addition, we have increased the water spraying frequency along the road leading to RM Stock yard. Concreted all approach roads.
v)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilised for plantation purpose.	Waste water collected from different sources is properly neutralized and is totally reused for dust suppression system through sprinkling arrangement at roads, Gardening & green belt development, granulation in FAP & Furnace shell cooling etc. The waste water is insufficient for us to meet the above requirement except in rainy seasons. Thus, there is no let-off of any effluent water from the industry premises including run off.
vi)	The company shall develop rain water harvesting structures to harvest the rain water for utilisation in the lean season besides recharging the ground water table.	We have already implemented the rain water harvesting in the hostel area over an area of 400 M ² . We are also developed two nos water harvesting pond with capacity of 35000m ³ & 25000m ³ .
vii)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noise levels are maintained within the prescribed limits and the employees working in the high noise area are provided with earplugs. Noise Monitoring report at four different locations of inside plant carried out and the monitoring report submitted in Annexure-3 .
viii)	Occupational Health Surveillance of the workers shall be done on regular basis and records maintained as per the Factories Act.	Medical examinations of the entire regular and contract employees are carried out annually. We have conducted recently the audio metric test, ECG, PFT tests and chest X-ray

		of the workmen. Use of Personal Protective Equipments while working in the dangerous/hazardous zones is always ensured.
ix)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Expenditure incurred for carrying out different CSR/peripheral development activities from 2025-26 is submitted as Annexure-1
x)	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for the environment pollution control measures shall be judiciously utilised to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Since our accounting is combined for both the Ferro Alloy and Power Plant, we submit the details of our investment for the last three financial years for your kind perusal as Annexure -2
xi)	The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	We regularly submitted the six month compliance report to Regional office of the Ministry at Bhubaneswar/ CPCB/SPCB.
xii)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with OPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office at Bhubaneswar.	Complied with.
xiii)	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Final approval of the projects: a) NOC obtained from SPCB, Orissa - Order No. 19329/Ind-II-NOC-4417 dated 10.08.2007. b) Environmental Clearance obtained from MOEF vide letter No. J-11011/1309/2007-IA II (I) dated 14.07.2008. c) NIPL Certificate obtained from

		SPCB vide letter No-22913/IND-II-CTE-NIPL-40 Dt.12.12.2022 d) Amended CTE obtained from SPCB, Odisha Vide letter No 6648/IND-II-CTE-6880 Dt. 25.04.2023 e) Consent to operate obtained from SPCB vide order No. 9904/IND-I-CON-1750 dated 01.07.2024 valid up to 31.03.2028. f) Land: No additional land was acquired for the project.
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S. K. Sahu

Sr. Manager (Environment)



(B. Dhal)

Asst. General Manager (SHEQ)

Name of the Project: **NAVA LIMITED.**

(Formerly Known as Nava Bharat Ventures Ltd.)

Kharagprasad, Dist: Dhenkanal (Odisha)

CAPTIVE POWER PLANT (EXPANSION FROM 30 MW TO 94 MW)

Clearance Letter/s No. and date: J-13011/32/2007-IA. II (T) DATED 28TH SEPTEMBER 2007

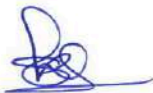
Period of Compliance Report: **October-2025 to March-2026**

Specific Conditions:

Sr. No.	Conditions	:	Compliance Status
3 (i)	No additional land shall be acquired for any facility relating to the proposed expansion project except abandoned mine area.	:	No additional land will be acquired for the expansion project except the abandoned mine area since the existing land is sufficient for expansion.
(ii)	Coal with sulphur content not exceeding 0.5 % shall be used.	:	Coal with sulphur content of less than 0.5% is being used.
(iii)	A stack of 95 m height with exit velocity of not less than 25 m/sec shall be provided with continuous On-line monitoring system. The data so collected shall be analysed and submitted regularly to the Ministry and its Regional Office at Bhubaneswar.	:	Provided stack of 95 m height for 64 MW Power Plant with exit velocity of not less than 25 m/sec is provided. Installed "Continuous Emission Monitoring Systems and connected to SPCB, Odisha and CPCB server. The Manual stack emission monitoring data for the period 01.10.2025 to 31.03.2026 is enclosed herewith as Annexure-3
(iv)	High efficiency Electrostatic Precipitator (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emissions do not exceed 100 mg/Nm ³	:	Installed 99% high efficient ESPs with 3 fields to each boiler and maintaining PM well below norms prescribed by SPCB Hence it is complied with.
(V)	100 % utilisation of ash (fly ash and bottom ash) shall be achieved from the day one. The mine to be used for backfilling of ash shall be lined with clay or any other suitable material so as to ensure that there is no leaching.	:	We achieved 100% utilisation of ash during the financial year 2025-26. Detail generation & utilization of fly ash is enclosed herewith as Annexure-7 Provided clay lining for South Balanda Mine being used for back filling of ash. Hence it is complied with.
(Vi)	Water requirement shall be met from Brahmani River. A copy of the allocation for the same from the competent authority in the state Govt. shall be submitted within one month from the date of issue of this letter.	:	We have been allocated with 4.7 cusecs of water from River Brahmani and the allocation letter is already submitted. Hence it is complied with.
(Vii)	Closed circuit cooling system with cooling towers shall be provided. COC of at least 6.5 shall be adopted.	:	Closed circuit cooling system with cooling tower is provided by adopting COC 8.0 to 9.0. Hence it is complied with.
(Viii)	There shall be zero discharge outside the plant boundary. The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant boundary.	:	NL is "Zero" water discharge plant. Waste water collected from different sources viz. Boiler blow down, Cooling Tower blow down, waste water generated from different sources is properly neutralized and is totally reused

		for ash moistening, dust suppression system through sprinkling arrangement at Coal Yard, roads, Gardening & green belt development, granulation in FAP & Furnace shell cooling etc. Hence it is complied with.
(ix)	Regular monitoring of ground water quality including heavy metals shall be undertaken in the project area to ascertain the change, if any, in the ground water quality.	: No bore well / Open well in the project area. However, ground water quality in the periphery of the project area is being monitored periodically and no change in the ground water quality is noticed.
(x)	Noise levels shall be limited to 75 dBA. For people working in the high noise area, protective devices such as earplugs etc. shall be provided.	: Noise levels are maintained within the prescribed limits and the employees working in the high noise area are provided with earplugs. Hence it is complied with.
(xi)	Greenbelt shall be developed covering 1/3 of total area. Local species shall only be planted for the greenbelt.	: Already developed green belt in about 36% of the total land which is more than the desired 1/3 rd area. Enclosed herewith the latest status of Green Belt development as Annexure-4
(xii)	Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be finalized in consultation with SPCB. Six monthly reports shall be submitted to the Ministry.	: Installed three no. of "Continuous Ambient Air Quality Monitoring Station" for monitoring PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , duly connected to SPCB Server. The locations of monitoring stations finalized with consultation with SPCB. In addition, we have our own Environmental Laboratory well equipped with the measuring devices to carry out the monitoring/analysis of the required parameters at a regular interval. Manual AAQ Monitoring report from 01.10.2025 to 31.03.2026 is submitted herewith as Annexure-3
(xiii)	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.	: Controlling fugitive dust emissions through mechanised water sprinkling system provided at different areas like roads, yards etc. In addition, provided dust extraction system in the raw material Circuit. In addition, we have increased the water spraying frequency along the road leading to silo and CHP. Concreted all approach roads. Hence it is complied with.
(xiv)	The project proponent should advertise at least in two local newspaper widely circulated in the region around the project, one of which should be in the Vernacular language of the locality concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letters are available within the state Pollution Control Board/Committee and may also be seen in the Website of the Ministry of Environment and Forests in the http://envfor.nic.in .	: We have already advertised in two local newspapers both in English & Odia and the copies of the same are already submitted by us. Hence it is complied with.

(xv)	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	:	We have formed an Environment Management Cell and the Members are Senior Executives from Power Plants and Ferro Alloy Plant. Qualified and experienced personnel are available for regular monitoring and analysis in our own Environmental Laboratory. Periodical meeting is conducted among the Members to discuss the environmental issues. Hence it is complied with.
(xvi)	Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted stipulated to the Ministry, its regional office, CPCB and SPCB.	:	Submitted herewith the half Yearly report for the period 01.10.2025 to 31.03.2026.
(xvii)	Regional Office of the Ministry of Environment & Forests located at Bhubaneswar will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment report and Environment management Plan should be forwarded to the Regional Office for their use during monitoring.	:	Copies of EIA & EMP reports are already submitted by us. Hence it is complied with.
(xviii)	Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	:	Submitted details of our investment and the recurring expenditure towards Environment Protection for the period i.e FY 2025-26 as Annexure-2 . Hence it is complied with.
(xix)	Full cooperation should be extended to the Scientists/Officers from the Ministry and its Regional office at Bhubaneswar/the CPCB/the SPCB during monitoring of the project.	:	Extending full co-operation to all the concerned.



S. K. Sahu
Sr. Manager (Environment)

For **NAVA LTD**,
(Formerly Known as Nava Bharat Ventures Ltd.)



(B. Dhal)
Asst. General Manager (SHEQ)

Name of the Project : **NAVA LIMITED.**
(Formerly Known as Nava Bharat Ventures Ltd.)
 Kharagprasad, Dist: Dhenkanal (Odisha)
Expansion by addition 1 x 64 MW Power Plant

Clearance Letter/s No. and date : J-13012/69/2011-IA.II (T) Dt. 23rd January 2012 and Amendment of Environmental Clearance (EC) For Change In Source of Coal from Imported to Domestic On Dt.02.02.2015

Period of Compliance Report : **October-2025 to March-2026**

SPECIFIC CONDITIONS

Sr. No.	Conditions	Compliance Status
(i)	In case source of fuel supply is to be changed at a later stage (now proposed on imported coal from Indonesia) the project proponent shall intimate the ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conducting public hearing may be decided by Ministry in consultation with the expert Appraisal Committee.	Source of coal has been changed from imported to domestic and the EC amended accordingly.
(ii)	Scheme for harnessing solar power within the premises of the plant particularly at available roof tops shall be formulated and status of implementation shall be submitted from time to time to the Regional Office of the Ministry.	We have already installed solar systems in our Hostel, Guest House areas and in street light under CSR activities.
(iii)	The company shall explore coal transportation to plant site by rail. The project proponent shall take up the matter with the Railways and shall submit action taken and implementation status to the Ministry from time to time.	Presently the coal transportation is carried out by covered vehicles from MCL, Talcher.
(iv)	Existing de-generated water bodies (if any) within 5.0 Km area shall be regenerated at the project proponent's expenses in consultation with the State Govt.	No degenerated water bodies are existing within 5.0 km area. Hence it is complied with.
(v)	No ground water shall be extracted for use in operation of the power plant even in lean season.	There is no extraction of ground water. Hence it is complied with.
(vi)	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.	No water bodies including natural drainage system are disturbed.

(vii)	Land and Water requirement shall be restricted as per latest CEA norms issued and COC of 5.0 shall be adopted.	Noted. Adopted 8 to 9 COC. Hence it is complied with.
(viii)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	There are no wells / bore wells in the plant area. Monitoring around the ash disposal area is carried out particularly for heavy metals and records is maintained and submitted to MoEF R.O. The data so obtained is compared with the baseline data and ensure that the ground water quality is not adversely affected due to the project.
(ix)	Monitoring surface water quality in the area shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Noted. Regular water quality monitoring is carried out and monitoring report is submitted with.
(x)	A well designed rainwater harvesting shall be put in place before commissioning of the plant. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	We have already implemented rain water harvesting system and the details along with the action plan are already submitted.
(xi)	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Noted.
(xii)	Provision for installation of FGD shall be provided for future use.	We are reviewing to install lime dosing facility to control SO ₂ emission instead of FGD.
(xiii)	The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.	Equipment has been installed to avoid fugitive fly ash emissions.
(xiv)	Stack of 95-meter height shall be installed and provided with continuous online monitoring equipment for SO _x , NO _x and PM _{2.5} & PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	Continuous Emission Monitoring System has already been installed for measuring required parameters and connected to SPCB/CPCB server. Mercury emission monitoring also carried out regularly.

(xv)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	99% high efficient ESPs have been installed to control particulate emissions below 50 mg/Nm ³
(xvi)	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Dust extraction systems (bag filters) have been installed and water spraying systems in coal handling area.
(xvii)	Utilisation of 100% Fly Ash generated shall be made from 4 th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time. The ash shall be disposed of in the abandoned mine void of Balanda mines allotted by MCL., after carrying a study to prevent leaching of heavy metal in the ground water.	Noted
(xviii)	Ash pond shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Noted.
(xix)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Noted.
(xx)	Green Belt consisting of 3 tiers of plantations of native species around plant and 50 m width shall be raised. The density of trees shall not less than 2500 per ha with survival rate not less than 80 %.	Green belts have been developed as specified and the latest plantation status in the prescribed format is enclosed as Annexure-4
(xxi)	At least three nearest villages shall be adopted and basic amenities like development of roads, drinking water supply, primary health Centre, primary school etc. shall be developed in co-ordination with the district administration.	We have already adopted 5 villages and the details of CSR activities undertaken by us are shown in Annexure-1 enclosed.
(xxii)	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Being taken up under the CSR activities.
(xxiii)	CSR scheme shall be identified based on need based assessment in and around the villages within 5.0 km of the site and in	CSR report is enclosed as Annexure-1

	constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken.	
(xxiv)	It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time. The achievements should be put on company's website.	CSR activities are carried out regularly, detail report is enclosed as Annexure-1
xxv)	An amount of Rs 1.01 Crores shall be earmarked as one-time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 0.20 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.	Earmarked 1.01 crores as one-time capital for CSR programmes and planned recurring expenditure of Rs. 0.20 crores per annum.
(xxvi)	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time	Noted.
Additional conditions in the amendment of Environmental Clearance (EC) for change in source of coal from imported to domestic.		
(xxvii)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 42% respectively at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Noted
(xxviii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. No ash shall be disposed off in low lying areas.	Fly ash is collected in dry form and storage facilities (silos) are provided.
(xxix)	Alternative time bound action plan for fly ash utilization with details of fly ash utilization potential of the activities proposed shall be submitted within six months.	We have got abandoned stone quarries from Dist. Administration and got NOC and Consent to operate from SPCB, Odisha for backfill of the quarries.

(xxx)	The coal transportation by road shall be through mechanically covered trucks to the extent feasible, else, shall be through tarpaulin covered trucks.	Coal transportation by road is carried out through Tarpaulin covered trucks. Hence it is complied with.
(xxxi)	Avenue plantation of 2/3 rows all along the road shall be carried out by the project proponent at its own expenses in consultation with the State Government Authorities.	Avenue Plantation programme is going on. Hence it is complied with.
(xxxii)	Periodic maintenance of the road shall be done by the project proponent at its own expenses and shall also facilitate the traffic control on the road in consultation with the State Government Authorities.	Noted
(xxxiii)	The PP shall advertise in the newspaper and place on the website, the amendment issued by the Ministry for public information	We have already advertised in two local newspapers both in English & Odia and the copy of the same is already submitted. Hence it is complied with.
(xxxiv)	A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	The radio activity contents of coal is analysed by BIRT/BARC. Heavy metal content in fly ash is analysed by IMMT, Bhubaneswar. Analysis report already Submitted.
(xxxv)	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close coordination with the State Pollution Control Board.	Noted
(xxxvi)	Three tier green belt shall be developed all around Ash Pond over and above the Green Belt around the plant boundary.	Green belts have been developed as specified and the latest plantation status is enclosed as Annexure-4 .
(xxxvii)	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	We have already formulated corporate Environment policy and We have formed an Environment Management Cell and the Members are Senior Executives who are ensured adherence to the policy and compliance with the conditions in this clearance.

GENERAL CONDITIONS:		
Sr. No.	Conditions	Compliance Status
(i)	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed	Noted.
(ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	100KLD capacity of STP provided and the outlet of STP water is used for green belt development. Hence it is complied with.
(iii)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Vent pipes and Fire Hydrant System are installed on stock piles. Lay out of the Fire Hydrant System already submitted.
(iv)	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Obtained Storage license from the Department of Explosive and all safety measures are adopted as per the norms followed by our onsite emergency plan.
(v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Provided first aid and sanitation for drivers and other contract workmen during construction. Hence it complied with.
(vi)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dBA from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Noted
(vii)	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation	Noted.

	with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	
(viii)	Provision shall be made for the housing of construction labour (as applicable) 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.	Provided sheds for construction labour. Hence it is complied with.
(ix)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Already advertised and a copy of the same has already been submitted. Hence it is complied with.
(x)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Copy of EC already send to Panchayat and included the same in the Company's website.
(xi)	An Environmental Cell comprising of at least one expert in environmental science / engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization and he shall be held responsible for implementation of environmental regulations and social impact improvement/mitigation measures.	Environment Cell already formed. Hence it is complied with.
(xii)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM _{2.5} & PM ₁₀), SO ₂ ,	Uploading the status of compliance to the EC conditions and monitoring results. Submitted herewith the half Yearly report for the period 01.10.2025 to 31.03.2026

	NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	
(xiii)	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Environment Statement for the year ending 31 st March-2025 was submitted to SPCB vide letter no. NL(O)/ENV/2025-26/480 dt.19.09.2025
(xiv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Submitted herewith the half Yearly report for the period 01.10.2025 to 31.03.2026
(xv)	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	Submitted EIA & EMP report to RO, MoEF. Uploading and updating the compliance status in the website.
(xvi)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Submitted the details expenditure towards Environmental Protection measures for the last year's i.e FY 2025-26 as Annexure-2 .
(xvii)	The project authorities shall inform the	a) Date of Financial closure=31 st

	Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	March of every year b) Approval of Consent to Establish from SPCB vide letter no. 12912/Ind-II-NOC-5262 dated 05.08.2010 c) Environmental Clearance obtained from MOEF vide letter No. J-13012/69/2011-IA.II (T) Dt. 23.01.2012 d) Approval of Consent to Operate from SPCB vide letter no 4269/IND-I-CON-3346 dated 21.03.2023 is valid up to 31.03.2027. e) Land: No additional land has been acquired for the project.
(xviii)	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bhubaneswar / CPCB/ SPCB who would be monitoring the compliance of environmental status.	Noted to extend full co-operation to all the concerned.
5.	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	Noted.
6.	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.	Noted.
7.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
8.	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Noted.
9.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its	Noted.

	amendments.	
Additional conditions in the amendment of Environmental Clearance (EC) for change in source of coal from imported to domestic.		
(i)	Concentration of heavy metals in the fruits, vegetables and fodder grown on the ash dyke shall be analysed and only then they shall be used for consumption.	Presently we have not cultivated any vegetable and food grain on the ash dyke. Hence it is complied with.
(ii)	A study shall be commissioned from reputed institutes like BARC, IITs, RRL, Bhubaneswar etc. to assess the impact of fly ash disposal in the mine voids and to carry out Toxicity Characteristics Leaching Procedure (TCLP) and submit the report to the Ministry, CPCB and SPCB within a year for review. The study shall collect baseline data of fly ash to be dumped, identify characteristics in fly ash and analyze its radioactivity contents.	The Study report & analysis reports of TCLP test carried out by IMMT, Bhubaneswar is enclosed as Annexure- 5 Analysis Report of Radioactivity content in fly ash already submitted.
(iii)	Monitoring of acid leaching and heavy metals in ground water in nearby mine areas shall be regularly carried out and immediate preventive action shall be taken.	Monitoring of acid leaching and heavy metals in the ground water quality nearby mine area is regularly carried out. The analysis result previously done is enclosed as Annexure- 6
(iv)	The monitoring reports of mine voids water sample analysis shall be submitted to the SPCB and the Regional Office of the Ministry regularly and the results shall be uploaded in public domain on the website.	As an abandoned mine void, have low depth, there is no mine void water is available.
(v)	The SPCB shall regularly collect mine void water samples and analyse the results and take/suggest action as required.	Noted
(vi)	Adequate number of piezometers, both at confined and unconfined aquifers, around the mine voids shall be installed in consultation with the SPCB.	After consultation with SPCB, Installation of piezometer will be completed.
(vii)	Fly ash disposal shall be restricted to atleast 1.0 m below the general ground level and clay/soil layer of 1.0 m on top of filled in dump shall be ensured.	Noted.

For **NAVA LTD**,
(Formerly Known as Nava Bharat Ventures Ltd.)



S. K. Sahu
Sr. Manager (Environment)



(B. Dhal)
Asst. General Manager (SHEQ)

NAVA LTD

Kharagprasad, Dhenkanal

CSR PROJECT & PROGRAMME FOR THE YEAR 2025-26

S. No.	Description	Proposed Budget (in Lakhs)	Actual Expenditure (in Lakhs)	Status
A. HEALTH				
1	Eye Screening for School Children.	3	3.26	Completed
2	Oral health screening and dental check-ups for school children.	2	1.84	Completed
3	Mobile Medical Van (Sanjeevani) in 10 close by village	2.55	2.35	Completed
4	Ni-kshay Mitra Initiative: Providing nutritional and health supplements to tuberculosis patients.	7.85	7.18	Completed
5	Outreach Community of Health Camps at villages- Kharagprasad, Sibapur, Ranjasingha & Meramandali.	5	5.00	Completed
6	Installation of 1000 LPH Purified drinking water system at Rasasing & Pasasing by Digging Well at nearby river and laying 660 mtr water pipeline.	30	36.32	Completed
7	Provision of safe and clean drinking water for the community.	15	18.39	Completed
8	Support to PRIA NGO with a mobile van to provide doorstep rehabilitation services for cerebral palsy patients.	10	6.35	Completed
9	Renovation of physiotherapy Centre of Utkal Bipanna Sahayata Samiti, Bhubaneswar.	28.6	27.86	Completed
SUB TOTAL - A		104.00	108.55	
B. EDUCATION				
1	Support to schools for educating children from EWS and disadvantaged groups.	5.63	5.63	Completed
2	Mobile science Lab programme in periphery schools.	10.0	7.74	Completed
3	Support for teachers in government schools to enhance teaching quality and student learning.	20.0	2.90	Completed
4	Construction of a girls' toilet at Motonga U.P. School.	6.0	8.59	Completed
5	Basic School Infra Support. Expenditure includes construction of two classrooms, provision of desks and benches for Dhalapur Govt. High School	50.0	47.98	Completed
6	Composit Science Lab at Bramhani Public School.	-	3.86	Completed
SUB TOTAL - B		91.63	76.70	
C. LIVELIHOOD				
1	Incense Stick Making Training and Production Support for SHG 1. Procurement of portable cabin for production activities 2. Procurement of incense stick-making machine along with required raw materials	7.5	7.18	Completed
2	Mushroom Farming Training and Production Support to SHG 1. Construction of a mushroom farming shed and procurement of raw materials for training purposes at the Skill Development Centre (SDC). 2. One-time support to three SHGs for mushroom farming, including shed construction, basic raw materials, and essential equipment support.	5.00	3.00	Completed
3	One time Support to S.H.G for deploying Garment Manufacturing Unit	1.5	1.01	Completed
4	Backyard poultry farming training along with one-time support for ensuring self-sustainable livelihoods for rural women.	6.00	4.16	Completed
5	Community engagement and awareness.	5.00	4.90	Completed
6	Employability Training by SDC.	55.0	51.17	Completed
SUB TOTAL - C		80.00	71.42	
D. Community Development/Infra				
1	"Development of a village market complex at Charadagadia to serve as a dedicated vending zone for women from Self-Help Groups (SHGs)."	30.00	26.15	Completed
2	"Undertaking repair and renovation work on the village road at Rani Bania to improve local connectivity and infrastructure."	5.00	4.06	Completed
3	"Construction & Renovation of a community hall "	15.00	16.79	Completed
4	Infra Renovation and maintenance	40.00	30.82	Completed
5	Fitness Walking Track	0.00	5.80	Completed
6	Modernization of Village Market	21.00	31.86	Completed
7	Project Ujwal		3.78	Completed
8	Promotion of Local Art & Culture	2.50	2.96	Completed
SUB TOTAL - D		113.50	122.22	
E. Environment Protection				
1	Mass Plantation & Maintenance . Community Plntation Near Masania Pond	10.00	0.92	Completed
2	Beautification of Road Divider on NH 55, between Masania Chowk to Nava Gate No.4		6.02	Completed
3	Plantation Work at Schools Premises		3.81	Completed
4	Plantation at South Balanda		1.59	Completed
SUB TOTAL - E		10.00	12.34	
F. Admin				
1	Staff Salaries	20.87	16.29	Completed
2	Miscellaneous AdminExp		2.43	Completed
SUB TOTAL - F		20.87	18.72	
GRAND TOTAL - A+B+C+D+E+F		420.00	409.95	

Nava Limited

(Formerly Known As Nava Bharat Ventures Ltd.)

Kharagprasad, Dhenkanal, Odisha

DETAILS OF INVESTMENT & EXPENDITURE ON ENVIRONMENTAL MANAGEMENT

Head of Account	Investment/Expenditure for the year 2023-24	Investment/Expenditure for the year 2024-25	Investment/Expenditure for the year 2025-26
Water Pollution Control Systems	4563009.00	5091995.00	5078548.00
Air Pollution Control Systems including GCP, Bag filters, ESP, Bag Houses, water sprinklers etc	8968688.00	10097008.00	17316584.00
Solid Waste Management System (for Handling, transportation and disposal of Fly Ash, Slag,Subsidy to fly ash bricks units etc)	112166462.00	93662514.00	107642368.00
Plantation & Green Belt Development	5216804.00	5657430.00	7128971.00
TOTAL:	130914963.00	114508947.00	137166471.00

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KHARAGPRASAD, DHENKANAL, ODISHA-759121

ANALYSIS RESULTS FOR THE MONTH OCTOBER-2025 TO MARCH -2026

AMBIENT AIR QUALITY MONITORING (MONTHLY AVERAGE)

MONTHS →	OCTOBER-25				NOVEMBER-25				DECEMBER-25				JANUARY-26				FEBRUARY-26				MARCH-26			
SAMPLING LOCATION	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x
Near Raw Water Reservoir	78.5	43.3	14.8	13.1	85.1	44.2	14.3	12.2	90.5	50.4	15.7	12.5	90.4	50.9	15.3	12.9	91.8	52.1	15.6	12.4	93.8	53.6	15.7	12.8
Near Gate no-05	87.2	49.7	15.8	13.0	91.0	51.8	15.7	13.1	94.4	53.2	16.0	13.2	92.9	52.8	15.0	13.8	93.1	52.4	14.2	12.8	93.7	53.3	15.0	12.9
Near Ash Bricks Unit	84.9	45.6	15.8	13.0	83.1	45.1	14.5	13.3	88.3	49.0	14.6	12.5	90.5	51.2	13.9	12.9	92.4	52.1	14.0	13.1	91.5	51.5	13.4	13.0
Back Site of Electrical Substation	86.4	46.0	15.2	12.6	89.1	47.0	14.0	12.5	94.1	53.2	15.7	13.7	94.0	53.2	15.0	13.3	91.1	52.3	14.3	12.9	88.4	50.6	13.7	12.1

NB. All parameter's unit in $\mu\text{g}/\text{m}^3$

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AMBIENT NOISE MONITORING REPORT

MONTHS → SAMPLING LOCATION ↓	Direction	OCTOBER-25		NOVEMBER-25		DECEMBER-25		JANUARY-26		FEBRUARY-26		MARCH-26	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Near Director's Residence	S	44.2	33.5	42.7	34.6	43.8	33.5	44.2	34.3	43.9	33.8	43.4	33.5
Near Ash Bricks Plant	W	45.8	37.2	44.9	36.1	45.3	35.6	46.3	34.7	47.8	35.6	46.7	34.8
Near Gate No-5	N	50.1	38.7	51.4	37.6	51.1	38.2	50.8	37.6	52.1	38.1	51.5	37.8
Near Bachelor Hostel	E	44.9	34.6	43.6	33.5	45.2	32.6	44.8	33.9	43.5	34.3	42.6	35.1

NB- Measuring Unit is Leq dB

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STACK MONITORING REPORT (POWER PLANTS)

MONTHS →	OCTOBER-25				NOVEMBER-25				DECEMBER-25				JANUARY-26				FEBRUARY-26				MARCH-26			
	PM	SO ₂	NOx	Hg	PM	SO ₂	NOx	Hg	PM	SO ₂	NOx	Hg	PM	SO ₂	NOx	Hg	PM	SO ₂	NOx	Hg	PM	SO ₂	NOx	Hg
Outlet duct of ESP attached to Boiler-I & II of 30 MW	31.6	532	428	0.007	30.4	507	406	0.006	31.6	512	410	0.005	32.8	494	392	0.006	31.7	475	381	0.008	30.2	445	352	0.006
Outlet duct of ESP attached to Boiler-I & II of 64 MW CPP	**	**	**	**	30.2	488	229	0.005	31.5	495	235	0.004	32.8	482	226	0.005	30.9	470	213	0.004	30.3	439	193	0.005
Outlet duct of ESP attached to Boiler-I & II of 64 MW IPP	31.5	544	338	0.005	30.3	518	312	0.006	31.6	523	318	0.004	33.7	508	307	0.006	31.8	484	286	0.006	30.3	461	263	0.004

NB – All measuring parameters unit is mg/Nm³

** - Unit is not in operation

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WASTE WATER MONITORING REPORT**b) Cooling Tower Blow Down water (Power Plant)**

MONTHS →	OCTOBER-25				NOVEMBER-25				DECEMBER-25				JANUARY-26				FEBRUARY-26				MARCH-26			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
COOLING TOWER BLOW DOWN OF 30 MW	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.2	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.4	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.1	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.9	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.1	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.7
COOLING TOWER BLOW DOWN OF 64 MW CPP	**	**	**	**	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.1	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.6	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.1	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.1	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.1
COOLING TOWER BLOW DOWN OF 64 MW IPP	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.8	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	4.2	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.9	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.4	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.9	BLQ (<0.5)	BLQ (<0.03)	BLQ (<0.01)	3.4

NB - A= Free Available Chlorine B= ZINC, C= Total Chromium, D= Phosphate (All parameter's unit is mg/l)

ND-Not Detected, ** - Unit is not in operation

NAVA LIMITED

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KHARAGPRASAD, DHENKANAL, ODISHA-759121

WASTE WATER MONITORING REPORT**a) Boiler Blow Down (Power Plant)**

MONTHS	OCTOBER-25				NOVEMBER-25				DECEMBER-25				JANUARY-26				FEBRUARY-26				MARCH-26			
SAMPLING LOCATION	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Boiler Blow Down of 30 MW	18	BLQ (<0.05)	0.31	BLQ (<5.0)	21	BLQ (<0.05)	0.35	BLQ (<5.0)	25	BLQ (<0.05)	0.35	BLQ (<5.0)	32	BLQ (<0.05)	0.36	BLQ (<5.0)	18	BLQ (<0.05)	0.39	BLQ (<5.0)	21	BLQ (<0.05)	0.42	BLQ (<5.0)
Boiler Blow Down of 64 MW CPP	**	**	**	**	8.2	BLQ (<0.05)	0.44	BLQ (<5.0)	9.1	BLQ (<0.05)	0.44	BLQ (<5.0)	10.4	BLQ (<0.05)	0.42	BLQ (<5.0)	9.7	BLQ (<0.05)	0.48	BLQ (<5.0)	8.5	BLQ (<0.05)	0.48	BLQ (<5.0)
Boiler Blow Down of 64 MW IPP	8.4	BLQ (<0.05)	0.62	BLQ (<5.0)	7.8	BLQ (<0.05)	0.53	BLQ (<5.0)	8.2	BLQ (<0.05)	0.53	BLQ (<5.0)	9.5	BLQ (<0.05)	0.51	BLQ (<5.0)	8.6	BLQ (<0.05)	0.62	BLQ (<5.0)	7.4	BLQ (<0.05)	0.58	BLQ (<5.0)

NB - A=SS B= COPPER C= IRON D= OIL & GREASE (All parameter's unit is mg/l)

** - Unit is not in operation , BLQ-<5.0)



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Ref. No: Envlab/26-27/R-00688

Date: 02.04.2026

STATIONARY EMISSION MONITORING REPORT FOR- MARCH-2026

1. Name of Industry : M/s. Nava Limited, Dhenkanal
2. Date of Sampling : 11.03.2026
3. Sampling Location : ST-I: Stack attached to Outlet of ESP of 30 MW (Unit-1 Boiler 1 & 2)
4. Monitoring Instruments : Vayubodhan Stack Sampler VSS 1
5. Sample collected By : VCSPL Representative
6. Date of Analysis : 12.03.2026 to 19.03.2026

Parameters	Unit of Measurement	Analysis Results	Standard as per CTO
		ST-I	
Stack Temperature	$^{\circ}\text{C}$	131	--
Ambient Temperature	$^{\circ}\text{C}$	34	
Velocity of Flue Gas	m/sec	18.3	--
Barometric Pressure	mmHg	760	--
Discharge Rate	Nm^3/hr	159545.22	2,17,800
Concentration of Particulate Matter as PM	mg/Nm^3	30.2	50
Sulphur dioxide as SO_2	mg/Nm^3	445	600
Oxides of Nitrogen as NO_x	mg/Nm^3	352	600
Mercury as Hg	mg/Nm^3	0.006	0.03



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*** End Report***



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Ref. No: Envlab/26-27/R-00689

Date: 02.04.2026

STATIONARY EMISSION MONITORING REPORT FOR- MARCH-2026

1. Name of Industry : M/s. Nava Limited, Dhenkanal
2. Date of Sampling : 11.03.2026
3. Sampling Location : ST-II: Stack attached to Outlet of ESP of 60 MW(Unit-2 Boiler 1 & 2)
4. Monitoring Instruments : Vayubodhan Stack Sampler VSS 1
5. Sample collected By : VCSPL Representative
6. Date of Analysis : 12.03.2026 to 19.03.2026

Parameters	Unit of Measurement	Analysis Results	Standard as per CTO
		ST-II	
Stack Temperature	$^{\circ}\text{C}$	128	--
Ambient Temperature	$^{\circ}\text{C}$	32	
Velocity of Flue Gas	m/sec	21.7	--
Barometric Pressure	mmHg	760	--
Discharge Rate	Nm^3/hr	348377.26	4,17,000
Concentration of Particulate Matter as PM	mg/Nm^3	30.3	50
Sulphur dioxide as SO_2	mg/Nm^3	439	600
Oxides of Nitrogen as NO_x	mg/Nm^3	193	450
Mercury as Hg	mg/Nm^3	0.005	0.03



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Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Ref. No: Envlab/26-27/R-00690

Date: 02.04.2026

STATIONARY EMISSION MONITORING REPORT FOR- MARCH-2026

1. Name of Industry : M/s. Nava Limited, Dhenkanal
2. Date of Sampling : 11.03.2026
3. Sampling Location : ST-III: Stack attached to Outlet of ESP of 60 MW (Unit-3 Boiler 1 & 2)
4. Monitoring Instruments : Vayubodhan Stack Sampler VSS I
5. Sample collected By : VCSPL Representative
6. Date of Analysis : 12.03.2026 to 19.03.2026

Parameters	Unit of Measurement	Analysis Results	Standard as per CTO
		ST-III	
Stack Temperature	$^{\circ}\text{C}$	127	--
Ambient Temperature	$^{\circ}\text{C}$	31	
Velocity of Flue Gas	m/sec	18.8	--
Barometric Pressure	mmHg	760	--
Discharge Rate	Nm^3/hr	357687.36	4,17,000
Concentration of Particulate Matter as PM	mg/Nm^3	30.3	50
Sulphur dioxide as SO_2	mg/Nm^3	461	600
Oxides of Nitrogen as NO_x	mg/Nm^3	263	450
Mercury as Hg	mg/Nm^3	0.004	0.03



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*** End Report***



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Test Report No: Envlab/26-27/TR-00691

Date: 02.04.2026

WASTE WATER ANALYSIS REPORT- MARCH-2026

Customer Name & Address	:	M/s. Nava Limited, Dhenkanal			
Sample Location	:	WW 1: Boiler Blow down- Unit 1 (30 MW CPP)	Sampling Procedure	:	VCSPL/F-SOP-002
Sample Description	:	Waste Water	Sampling Date	:	11.03.2026
Sampe Condition	:	Good	Sample Received On	:	12.03.2026
Test Completed on	:	19.03.2026	Sampled by	:	VCSPL'S Representative

SL. No.	Name of the Parameters	Unit	Testing Method	Standard as per CTO	Analysis Result
1	Total Suspended Solids (as TSS)	mg/l	APHA 23 rd Ed 2017, 2540 D	100 mg/l	21
2	Oil & Grease (as O & G)	mg/l	APHA 23 rd Ed 2017, 5520 B	20 mg/l	BLQ (<5.0)
3	Copper (as Cu)	mg/l	APHA 23 rd Ed 2017, 3111 B	1.0 mg/l	BLQ (<0.05)
4	Total Iron (as Fe)	mg/l	APHA 23 rd Ed 2017, 3111 B	1.0 mg/l	0.44

(BLQ= Below Limit of Quantification)



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*** End Report***



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Test Report No: Envlab/26-27/TR-00692

Date: 02.04.2026

WASTE WATER ANALYSIS REPORT- MARCH-2026

Customer Name & Address	:	M/s. Nava Limited, Dhenkanal			
Sample Code & Location	:	WW2: Cooling Tower Blow down - Unit 1 (30 MW CPP)	Sampling Procedure	:	VCSPL/F-SOP-002
Sample Description	:	Waste Water	Sampling Date	:	11.03.2026
Sampe Condition	:	Good	Sample Received On	:	12.03.2026
Test Completed on	:	19.03.2026	Sampled by	:	VCSPL'S Representative

SL. No.	Name of the Parameters	Unit	Testing Method	Standard as per CTO	Analysis Result
1	Free available chlorine	mg/l	APHA 23 rd Ed 2017, 4500 Cl ⁻ B	0.5 mg/l	BLQ (<0.5)
2	Total Chromium (as TCr)	mg/l	APHA 23 rd Ed 2017, 3111 B	0.2 mg/l	BLQ (<0.01)
3	Zinc (as Zn)	mg/l	APHA 23 rd Ed 2017, 3111 B	1.0 mg/l	BLQ (<0.03)
4	Phosphate (as PO ₄ ⁻)	mg/l	APHA 23 rd Ed 2017, 4500 P D	5.0 mg/l	4.3

(BLQ= Below Limit of Quantification)



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*** End Report***



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Test Report No: Envlab/26-27/TR-00693

Date: 02.04.2026

WASTE WATER ANALYSIS REPORT FOR MARCH-2026

Customer Name & Address	:	M/s. Nava Limited, Dhenkanal			
Sample Code & Location	:	WW3: Boiler Blow down- Unit 2 (60 MW CPP)	Sampling Procedure	:	VCSPL/F-SOP-002
Sample Description	:	Waste Water	Sampling Date	:	11.03.2026
Sample Condition	:	Good	Sample Received On	:	12.03.2026
Test Completed on	:	19.03.2026	Sampled by	:	VCSPL'S Representative

SL. No.	Name of the Parameters	Unit	Testing Method	Standard as per CTO	Analysis Result
1	Total Suspended Solids (as TSS)	mg/l	APHA 23 rd Ed 2017, 2540 D	100 mg/l	8.5
2	Oil & Grease (as O & G)	mg/l	APHA 23 rd Ed 2017, 5520 B	20 mg/l	BLQ (<5.0)
3	Copper (as Cu)	mg/l	APHA 23 rd Ed 2017, 3111 B	1 mg/l	BLQ (<0.05)
4	Total Iron (as Fe)	mg/l	APHA 23 rd Ed 2017, 3111 B	1 mg/l	0.42

(BLQ= Below Limit of Quantification)



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Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Test Report No: Envlab/26-27/TR-00694

Date: 02.04.2026

WASTE WATER ANALYSIS REPORT FOR MARCH-2026

Customer Name & Address	:	M/s. Nava Limited, Dhenkanal			
Sample Code & Location	:	WW4: Cooling Tower Blow down – Unit 2 (60 MW CPP)	Sampling Procedure	:	VCSPL/F-SOP-002
Sample Description	:	Waste Water	Sampling Date	:	11.03.2026
Sample Condition	:	Good	Sample Received On	:	12.03.2026
Test Completed on	:	19.03.2026	Sampled by	:	VCSPL'S Representative

SL. No.	Name of the Parameters	Unit	Testing Method	Standard as per CTO	Analysis Result
1	Free available chlorine	mg/l	APHA 23 rd Ed 2017,4500 Cl ⁻ B	0.5 mg/l	BLQ (<0.5)
2	Total Chromium (as TCr)	mg/l	APHA 23 rd Ed 2017,3111 B	0.2 mg/l	BLQ (<0.01)
3	Zinc (as Zn)	mg/l	APHA 23 rd Ed 2017,3111 B	1.0 mg/l	BLQ (<0.03)
4	Phosphate (as PO ₄)	mg/l	APHA 23 rd Ed 2017,4500 P D	5.0 mg/l	3.7

(BLQ= Below Limit of Quantification)



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*** End Report***



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Test Report No: Envlab/26-27/TR-00695

Date: 02.04.2026

WASTE WATER ANALYSIS REPORT FOR MARCH-2026

Customer Name & Address	M/s. Nava Limited, Dhenkanal			
Sample Code & Location	WW5: Boiler Blow down- Unit 3 (60 MW IPP)	Sampling Procedure	:	VC SPL/F-SOP-002
Sample Description	Waste Water	Sampling Date	:	11.03.2026
Sample Condition	Good	Sample Received On	:	12.03.2026
Test Completed on	19.03.2026	Sampled by	:	VC SPL'S Representative

SL. No.	Name of the Parameters	Unit	Testing Method	Standard as per CTO	Analysis Result
1	Total Suspended Solids (as TSS)	mg/l	APHA 23 rd Ed 2017, 2540 D	100 mg/l	7.4
2	Oil & Grease (as O & G)	mg/l	APHA 23 rd Ed 2017, 5520 B	20 mg/l	BLQ (<5.0)
3	Copper (as Cu)	mg/l	APHA 23 rd Ed 2017, 3111 B	1 mg/l	BLQ (<0.05)
4	Total Iron (as Fe)	mg/l	APHA 23 rd Ed 2017, 3111 B	1 mg/l	0.58

(BLQ= Below Limit of Quantification)



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*** End Report***



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(Committed For Better Environment)

Test Report No: Envlab/26-27/TR-00696

Date: 02.04.2026

WASTE WATER ANALYSIS REPORT FOR MARCH-2026

Customer Name & Address	:	M/s. Nava Limited, Dhenkanal			
Sample Code & Location	:	WW6: Cooling Tower Blow down - Unit 3 (60 MW IPP)	Sampling Procedure	:	VCSPL/F-SOP-002
Sample Description	:	Waste Water	Sampling Date	:	11.03.2026
Sample Condition	:	Good	Sample Received On	:	12.03.2026
Test Completed on	:	19.03.2026	Sampled by	:	VCSPL'S Representative

SL. No.	Name of the Parameters	Unit	Testing Method	Standard as per CTO	Analysis Result
1	Free available chlorine	mg/l	APHA 23 rd Ed 2017,4500 Cl ⁻ B	0.5 mg/l	BLQ (<0.5)
2	Total Chromium (as TCr)	mg/l	APHA 23 rd Ed 2017,3111 B	0.2 mg/l	BLQ (<0.01)
3	Zinc (as Zn)	mg/l	APHA 23 rd Ed 2017,3111 B	1.0 mg/l	BLQ (<0.03)
4	Phosphate (as PO ₄ ⁻)	mg/l	APHA 23 rd Ed 2017,4500 P D	5.0 mg/l	3.4

(BLQ= Below Limit of Quantification)



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*** End Report***

**MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE EASTERN
REGIONAL OFFICE**

A/3, CHANDRASEKHARPUR, BHUBANESWAR-751023

**FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/PLANTATION UNDER
F(C) ACT 1980 AND E (P) ACT 1986**

- 1
 - a) Name of the Project : NAVA LTD.(Formerly Known as Nava Bharat Ventures Ltd.)
 - b) Env't. /Forest Clearance Nos. : E.C.No.-J-13011/32/2007-IA. II (T)
E.C.No.-J-13012/69/2011-1AM(T)
E.C.No.-J-11011/1309/2007-IA.II (I)
- 2 Location, Block/Sub. Divn./Dist/State : VILL- KHARAGPRASAD,
BLOCK- ODAPADA,
DIST- DHENKANAL (ODISHA)
- 3 Address for communication : AT/PO-KHARAGPRASAD
NEAR MERAMANDALI RAILWAY
TATION), DIST-DHENKANAL-
759121
- 4 Existing vegetation in the area/region :
 - a) Species(Trees/Shrubs/Grasses/climbers) : Tree, Shrubs
 - b) Major prevalent species of each type : Radhachuda, Kadamba, Amba, Baniyan etc.
- 5
 - a) Land coverage by the project : 165.19 Acres
 - b) Area covered for basic infrastructure : 86 Acres(Approx)
(Roads / building / factory etc.)
- 6 Details about natural vegetation
 - a) Name and number of tree/species Felled : Banyan(5 Nos),Mahula(1 No),Peepal(1 No) Mango (2 Nos), Khajuri(12 Nos), Tala(12 Nos) Gohira(10 Nos), Kadamba(5No)
 - b) Name and number of plant species Still available in the area : Banyan(4Nos),Peepal(1 No) Mango (32 Nos), Khajuri(8 Nos), Gohira(8 Nos)
 - c) By protecting the area will Indigenous stock comes up : Nil
 - d) Extent of greenbelt developed : Nil
- 7 Plantation required to be carried out as per
 - a) Conditions of Environmental Clearance in ha./Nos : 2500/ha
 - b) Conditions for Forest Act(C) Clearance in ha/Nos : -
 - c) Voluntarily in ha./nos. : Nil
- 8 Details of Plantation
 - a) Total area available for Plantation In each category :

i) Green Belt ii) Dumps iii) Back filled iv) Road sides v) Block Plantation

10.5 Acres 3.5 Acres 42.6 Acres 2 km (RKM) 0 Acres

b) Plantation details (Category wise & Methodology used) :

Year of	Species	Spacing	Height attained	Total area covered	Area still available
2025-26	Mango, Guava, Lemon, Kashew, Plum, Jack fruit, Baula, Jammu, Ashoka, Royal Palm & dates, Neem, Radhachuda & Karanja	03 mtrs	0.5 mtrs (Appr)	147.2 Acre	-
2024-25	Mango, Guava, Orange, Lemon, Kashew, Plum, Jack fruit, Chisia, Baula, Jammu, Neem & Karanja	03 mtrs	0.5 mtrs (Appr)	144.8 Acre	-
2023-24	Baula, Karanja, Alstonia, Neem, Jammu, Radhachuda, Mango	03 mtrs	1.0 mtrs (Appr)	143.9 Acre	-
2022-23	Baula, Karanja, Alstonia, Neem, Jammu, Radhachuda, Mango	03 mtrs	1.0 mtrs (Appr)	143.9 Acre	-
2021-22	Baula, Alstonia, Neem, Jammu, Radhachuda	03 mtrs	1.5 mtrs (Appr)	141.2 Acre	-

c)	Survival of Plantation	:	21-22 1 st Year	22-23 2 nd Year	23-24 3 rd Year	24-25 4 th Year	25-26 5 th Year
	Total Plantations (No.)	:	1215	1129	100	1487	5068
	Survival (No.)	:	1072	773	78	1264	4590
	Survival	:	60347	61347	61405	62669	67259

9 Agency carrying out plantation and maintenance : NIL

10 Financial details (Year wise) plantation wise and item wise

Sl. No.	Year	Fund allocated	Expenditure made	Average cost of each surviving plant in Rs.
1	2025-26	Rs. 5,00,000/-	Rs. 3,37,500/-	Rs.450/-
2	2024-25	Rs. 5,00,000/-	Rs. 4,05,000/-	Rs.450/-
3	2023-24	Rs. 3,00,000/-	Rs. 75,000/-	Rs.450/-
4	2022-23	Rs. 6,00,000/-	Rs. 5,00,000/-	Rs.420/-
5	2021-22	Rs. 6,00,000/-	Rs. 5,10,000/-	Rs.420/-

11 Inspection of plantation by field experts and their comments and their comments and follow up actions : Preferred for local species for future plantation Programme.

12 Remarks/any other information : No



सीएसआईआर - खनिज एवं पदार्थ प्रौद्योगिकी संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
भुवनेश्वर-751013, ओडिशा, भारत
CSIR - INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY
(Council of Scientific & Industrial Research)
Bhubaneswar - 751013, Odisha, INDIA



TEST REPORT

Ref. No. LT02-CCD/24/37

Date: 24.09.2024

Table-9. Experimental variables for TCLP study of ash sample.

Sl. No.	TCLP study Variables	Variable Data
1	Sample Type	Fly ash
2	TCLP study method	US-EPA Method-1311
3	Sample grain size	powder
4	Initial pH of sample	6.5
5	pH after HCl + heat	2.0
6	Extraction fluid used	Extraction fluid -I
7	pH of extraction fluid-I	4.93
8	Sample taken for leaching, gm	50
9	Volume of extraction fluid used, ml	1000
10	Liquid/solid ratio	20:1
11	Head space	10%
12	Extraction Temperature, °C	28
13	Extraction Time, hour	18
14	Filter	Glass micro fiber, Whatman GF/C
15	Washing of filter	With dil. HNO ₃
16	pH of recovered extraction fluid	5.10

Dr. B. Nayak
(Dr. B. Nayak)
Chief Scientist
& Head, CCD

Dr. J. Das
(Dr. J. Das)
Pr. Technical Officer
Central Characterization Dept.

N.B.: - The samples are not drawn by CSIR-IMMT. Liability, if any, for the institute arising in connection with the testing shall be subject to ceiling of amount received by the institute from the client. The report should not be interpreted in part.



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(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
भुवनेश्वर-751013, ओडिशा, भारत
CSIR - INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY
(Council of Scientific & Industrial Research)
Bhubaneswar - 751013, Odisha, INDIA



TEST REPORT

Ref. No. LT02-CCD/24/37

Date: 24.09.2024

Table-10. Concentrations of metal ion constituents in TCLP or WET Procedure solutions of Fly ash sample.

Sl. No.	Component	Concentrations in TCLP or WET* leaching solutions of ash test sample, mg/L	Waste constituents concentration limits based on TCLP or STLC. Gazette of India, Extraordinary, Schedule-II, mg/L
		Fly ash	
1	Hg	0.0003	0.2
2	As	0.009	5.0
3	Cd	0.002	1.0
4	Total Cr	0.040	5.0
5	Pb	0.026	5.0
6	Mn	0.453	10.0
7	Ba	0.416	100
8	Se	0.015	1.0
9	Ag	0.001	5.0
10	Co*	0.096	80.0
11	Cu*	0.753	25.0
12	Ni*	0.269	20.0
13	Zn*	1.018	250
14	Sb*	<0.001	15.0
15	Be*	0.006	0.75
16	Mo*	0.14	350
17	V*	1.214	24.0
18	F*	16.8	180
19	Cr VI*	0.018	5.0

*Metal ion concentrations are measured in WET procedure leaching solutions and other metal ions are analyzed in TCLP leaching solutions as per MOEF guidelines.

for *[Signature]*
(Dr. B. Nayak) 24/09/2024
Chief Scientist
& Head, CCD

[Signature]
(Dr. J. Das)
Pr. Technical Officer
Central Characterization Dept.

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Bhubaneswar - 751013, Odisha, INDIA

Annexure-6



TEST REPORT

Ref. No. LT02-CCD/24/37

Date: 24.09.2024

Table-1. Sample Id and locations of Bore well water samples in the nearby area of the ash disposal sites

Sl. No.	Sample code	Sampling locations
1	1 - A	Bore well of Badasingda Village
2	1 - B	Bore well of South Balanda Market
3	2 - A	Bore Well of Ranibania Village (Near UP School)
4	2 - B	Bore Well of Ranibania Village
5	3 - A	Bore Well of Bachuribanka Village
6	3 - B	Bore Well of Bachuribanka Village

for Dr. B. Nayak
(Dr. B. Nayak)
Chief Scientist
& Head, CCD

(Dr. J. Das)
(Dr. J. Das)
Pr. Technical Officer
Central Characterization Dept.

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Bhubaneswar - 751013, Odisha, INDIA



TEST REPORT

Ref. No. LT02-CCD/24/37

Date: 24.09.2024

Table-2. Water quality analysis of Bore well water samples in the nearby area of the ash disposal sites.

Sl. No.	Parameter	Concentration in Test Bore well Water samples						Requirements as per IS 10500:2012 (Latest Version), Acceptable limit, (mg/L)
		1 - A	1 - B	2 - A	2 - B	3 - A	3 - B	
1	pH @ Temp °C	6.33	5.87	6.97	7.26	6.60	7.14	6.5-8.5
2	Turbidity, NTU	10.6	31.5	3.62	9.31	19.70	1.10	1
3	Total Dissolved Solids, mg/L	379.0	486.0	1277.0	972.0	438.0	884.0	500
4	Electrical Conductivity(EC), μ S/cm	498	585	1974	1556	532	1389	-
5	Dissolved Oxygen(DO), mg/L	6.3	6.7	5.8	5.6	4.8	5.1	-
6	Chloride, mg/L	57.98	91.97	229.93	163.95	29.99	129.96	250
7	Alkalinity as CaCO ₃ , mg/L	152.0	24.0	348.5	448.0	136.0	412.0	200
8	HCO ₃ as CaCO ₃ , mg/L	152.0	24.0	348.5	448.0	136.0	412.0	-
9	Total Hardness (as CaCO ₃), mg/L	184.0	120.6	376.4	507.3	176.0	490.0	200
10	Ca, mg/L	48.10	27.25	94.59	91.38	46.49	86.57	75
11	Mg, mg/L	15.55	12.64	68.73	76.45	14.58	47.63	30
12	Na, mg/L	22.38	61.31	145.5	103.5	14.51	115.0	-
13	K, mg/L	11.25	20.26	0.55	5.90	27.75	1.20	-
14	SO ₄ ⁻ , mg/L	10.02	70.66	96.11	11.56	36.81	51.12	200
15	NO ₃ ⁻ , mg/L	12.60	50.6	94.0	23.20	52.4	11.90	45
16	PO ₄ -P, mg/L	0.032	0.022	0.021	0.016	0.012	0.06	-
17	Fluoride, mg/L	0.65	0.73	1.95	1.30	0.60	1.41	1.0
18	Total Fe, mg/L	0.48	0.55	0.28	0.36	0.42	0.10	0.3
19	As, mg/L	0.002	BDL	0.004	0.003	0.005	BDL	0.01

P.T.O. [3]



सीएसआईआर - खनिज एवं पदार्थ प्रौद्योगिकी संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
भुवनेश्वर-751013, ओडिशा, भारत
CSIR - INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY
(Council of Scientific & Industrial Research)
Bhubaneswar - 751013, Odisha, INDIA



Continued.....

20	Hg, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
21	Ba, mg/L	0.205	0.240	0.278	0.624	0.218	0.215	0.7
22	Cd, mg/L	BDL	BDL	BDL	BDL	BDL	BDL	0.003
23	Cr, mg/L	0.05	0.07	0.09	0.08	0.03	0.04	0.050
24	Pb, mg/L	BDL	BDL	BDL	BDL	BDL	BDL	0.010
25	Mn, mg/L	0.13	0.15	0.11	0.026	0.044	0.061	0.1
26	Ag, mg/L	0.006	0.004	0.004	0.002	0.001	0.001	0.1
27	Co, mg/L	0.004	0.012	0.002	BDL	0.006	0.003	-
28	Cu, mg/L	0.023	0.044	0.037	0.058	0.056	0.035	0.05
29	Ni, mg/L	BDL	0.015	BDL	BDL	BDL	BDL	0.02
30	Zn, mg/L	1.671	0.269	0.926	1.361	0.088	0.006	5.0
31	Se, mg/L	BDL	BDL	0.008	BDL	0.006	0.009	0.01
32	Sb, mg/L	BDL	0.004	0.002	0.001	BDL	BDL	-
33	Be, mg/L	BDL	0.002	BDL	BDL	BDL	BDL	-
34	Mo, mg/L	BDL	BDL	BDL	0.002	BDL	0.001	0.07
35	V, mg/L	BDL	BDL	0.045	0.048	0.002	0.013	-
36	Cr (VI), mg/L	0.008	0.009	0.018	0.021	0.016	0.012	-

Dr. B. Nayak
(Dr. B. Nayak)
Chief Scientist
& Head, CCD

24/09/2024

Dr. J. Das
(Dr. J. Das)
Pr. Technical Officer
Central Characterization Dept.

N.B.: The samples are not drawn by CSIR-IMMT. Liability, if any, for the institute arising in connection with the testing shall be subject to ceiling of amount received by the institute from the client. The report should not be interpreted in part.

[4]



NAVA LIMITED

(Formerly Nava Bharat Ventures Ltd.)

KHARAGPRASAD, NEAR MERAMANDALI RLY. STATION, DIST. : DHENKANAL - 759 121, ODISHA

Ref: NL(O)/ENV/2026-27/062

Date: 22.04.2026

To
The Member Secretary,
State Pollution Control Board,
A-118, Paribesh Bhawan,
Nilakanthanagar, Unit-VIII,
BHUBANESWAR-751012.

**Sub: Annual implementation report on fly ash Generation and Utilization for
the year 2025-26 (1st April-25 to 31st March-26)**

Dear Sir,

With reference to the fly ash notification S.O.5481 (E), dated 31st December 2021,
we are enclosing herewith the annual implementation report on ash generation and
utilization for the year 2025-26 (1st April-25 to 31st March-26) in the prescribed format.

This is for your kind information.

Thanking you,

Yours faithfully,
For **NAVA LTD**

(Raja Sekhara Rao V)
Vice President-Odisha Operations

Encl: as above.

Copy to: 1) The Member secretary, Central Pollution Control Board, Parivesh Bhavan,
East Arjun Nagar, New Delhi- 110032
2) The Joint Director(S), Ministry of Environment & Forests, Eastern Regional
Office, A/3, Chandrasekharapur, Bhubaneswar-751 023.
3) The Chief Engineer, Thermal Civil Design Division, Central Electricity
Authority, 9th Floor, North Wing Sewa Bhawan, Ramkrishna Puram,
New Delhi-110066
4) The Regional Officer, State Pollution Control Board, S-3/3, Industrial Estate,
Hakimpada, Angul-759143

Ash Compliance Report (for the period 1st April-31st March) to be submitted on or before 31st May

Sl. No	Details	
1.	Name of Power Plant	NAVA LTD. (Formerly known as Nava Bharat Ventures Ltd.)
2.	Name of the company	NAVA LTD. (Formerly known as Nava Bharat Ventures Ltd.)
3.	District	DHENKANAL
4.	State	ODISHA
5.	Postal address for communication:	AT- KHARAGPRASAD, PO- MERAMANDALI, DIST- DHENKANAL, ODISHA PIN-759121
6.	E-mail:	odisha@navalimited.com, nbvldkl@gmail.com
7.	Power Plant installed capacity (MW):	30MW+60MW+60MW=150MW
8.	Plant Load Factor (PLF):	77.14
9.	No. of units generated (MWh):	1013673 MWh
10.	Total area under power plant (ha): (including area under ash ponds)	45 ha
11.	Quantity of coal consumption during reporting period (Metric Tons per Annum):	884133 MT
12.	Average ash content in percentage (per cent):	45.74 %
13.	Quantity of current ash generation during reporting period (Metric Tons per Annum): Fly ash (Metric Tons per Annum): Bottom ash (Metric Tons per Annum):	403852 MT 323082 MT 80770 MT
14.	Capacity of dry fly ash storage silo(s) (Metric Tons) :	900MT (4 Nos) and 300 MT (2 No)
15.	Details of utilisation of current ash generated during reporting period (a) Total quantity of current ash utilised (MTPA) during reporting period: (b) Quantity of fly ash utilised (MTPA): (i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels) (ii) Cement manufacturing: (iii) Ready mix concrete: (iv) Ash and Geo-polymer-based construction material: (v) Manufacturing of sintered or cold bonded ash aggregate: (vi) Construction of roads, road and fly over embankment: (vii) Construction of dams: (viii) Filling up of low-lying area: (ix) Filling of mine voids: (x) Use in overburden dumps: (xi) Agriculture: (xii) Construction of shoreline protection structures in coastal districts; (xiii) Export of ash to other countries: (xiv) Others (please specify): (c) Quantity of bottom ash utilised (MTPA): (i) Fly ash based products (bricks or blocks or tiles or	403852 MT 218165 MT 32176 MT 3910 MT 4774 MT 64067 MT

	fibre cement sheets or pipes or boards or panels); (ii) Cement manufacturing; (iii) Ready mix concrete; (iv) Ash and Geo-polymer based construction material; (v) Manufacturing of sintered or cold bonded ash aggregate; (vi) Construction of roads, road and flyover embankment; (vii) Construction of dams; (viii) Filling up of low lying area; (ix) Filling of mine voids; (x) Use in overburden dumps; (xi) Agriculture; (xii) Construction of shoreline protection structures in coastal districts; (xiii) Export of ash to other countries; (xiv) Others (please specify): Total quantity of current ash unutilised (MTPA) during reporting period:	80770 MT
16.	Percentage utilisation of current ash generated during reporting period (per cent):	100%
17.	Details of disposal of ash in ash ponds (a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period): (b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons): (c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m³): (d) Total number of ash ponds: (i) Active: (ii) Exhausted (yet to be reclaimed): (iii) Reclaimed: (e) total area under ash ponds (ha):	Not Applicable
18.	Individual ash pond details <i>Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one)</i> (a) Status: Under construction or Active or Exhausted or Reclaimed (b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MM/YYYY): (c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds) (c) area (hectares): (d) dyke height (m): (d) volume (m³): (e) quantity of ash disposed as on 31st March (Metric Tons): (f) available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons): (g) expected life of ash pond (number of years and months): (e) co-ordinates (Lat and Long): (please specify minimum 4 co-ordinates)	Not Applicable

	(f) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining g) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD) (h) Ratio of ash: water in slurry mix (1:): (i) Ash water recycling system (AWRS) installed and functioning: Yes or No (j) Quantity of wastewater from ash pond discharged into land or water body (m3): (k) Last date when the dyke stability study was conducted and name of the organisation who conducted the study: (l) Last date when the audit was conducted and name of the organisation who conducted the audit:																	
19.	Quantity of legacy ash utilised (MTPA): i. Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels): ii. Cement manufacturing: iii. Ready mix concrete: iv. Ash and Geo-polymer-based construction material: v. Manufacturing of sintered or cold bonded ash aggregate: vi. Construction of roads, road and flyover embankment: vii. Construction of dams: viii. Filling up of low lying area: ix. Filling of mine voids: x. Use in overburden dumps: xi. Agriculture: xii. Construction of shoreline protection structures in coastal districts; xiii. Export of ash to other countries: xiv. Others (please specify):	Not Applicable																
20.	Summary: <table border="1"> <thead> <tr> <th>Details</th><th>Quantity generated (MTP)</th><th>Quantity utilised (MTP) and (per cent)</th><th>Balance quantity (MTP)</th></tr> </thead> <tbody> <tr> <td>Current ash during reporting period</td><td>403852 MT</td><td>403852 MT and 100%</td><td>NIL</td></tr> <tr> <td>Legacy ash</td><td>NIL</td><td>NIL</td><td>NIL</td></tr> <tr> <td>Total</td><td>403852 MT</td><td>403852 MT and 100%</td><td>NIL</td></tr> </tbody> </table>	Details	Quantity generated (MTP)	Quantity utilised (MTP) and (per cent)	Balance quantity (MTP)	Current ash during reporting period	403852 MT	403852 MT and 100%	NIL	Legacy ash	NIL	NIL	NIL	Total	403852 MT	403852 MT and 100%	NIL	
Details	Quantity generated (MTP)	Quantity utilised (MTP) and (per cent)	Balance quantity (MTP)															
Current ash during reporting period	403852 MT	403852 MT and 100%	NIL															
Legacy ash	NIL	NIL	NIL															
Total	403852 MT	403852 MT and 100%	NIL															
21.	Any other information: Soft copy of the annual compliance report, and shape files of power plant and ash ponds may be e-mailed to:- moefcc-coalash@gov.in	Soft copy of the annual compliance report mailed to: moefcc-coalash@gov.in																
22.	Signature of Authorised Signatory 