



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director
JHARKHAND ISPAT PVT LTD
Near P.N Bank, Main Road, Ramgarh Cantt, Distt. Ramgarh,
Jharkhand,,Ramgarh,Jharkhand-829122

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/JH/IND/236898/2020 dated 15 Nov 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|---|--|
| 1. EC Identification No. | EC22A008JH113341 |
| 2. File No. | J-11011/41/2013-IA-II(I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 3(a) Metallurgical industries (ferrous & non ferrous) |
| 6. Name of Project | Expansion of Jharkhand Ispat (P) Ltd. for enhancement of Sponge Iron Production from 60,000 to 120,000 TPA, Billet Production 108,000 TPA, 90,000 TPA Rolling Mill along with 18 MW Captive Power Plant (WHRB-6MW & AFBC-12MW at village - Hesla, P.O. - Argada, Ramgarh District, Jharkhand |
| 7. Name of Company/Organization | JHARKHAND ISPAT PVT LTD |
| 8. Location of Project | Jharkhand |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 07/09/2022

(e-signed)
Dr. R. B. Lal
Scientist E
IA - (Industrial Projects - 1 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. J-11011/41/2013-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 7th September, 2022

To,

M/s. Jharkhand Ispat Private Limited
Near P.N Bank, Main Road, Ramgarh Cantt,
Disrict. Ramgarh, Jharkhand – 829122

Email: jjplmoefcc@gmail.com

Project: Sponge Iron Plant (4x100 TPD), Induction furnace (2x12T+1x12T), Rolling Mill (90,000 TPA) and 18 MW power plant [6 MW WHRB, 2 MW Coal char based and 10 MW Coal based] of M/s. Jharkhand Ispat Private Limited located at Hesla, P.O. Argada, District Ramgarh, Jharkhand – Grant of Environmental Clearance as per S.O. 804(E) dated 14/03/2017 – regarding.

Sir,

This refers to your proposal no. **IA/JH/IND/236898/2020** dated **15/11/2021** and subsequent ADS reply dated 15/01/2022 and 07/02/2022 submitted through Parivesh Portal seeking grant of **Environmental Clearance (EC) under EIA Notification, 2006** for the project mentioned above. Further, Jharkhand State Pollution Control Board vide letter Memo no. B-1767 dated 01.09.2022, has informed that M/s Jharkhand Ispat Private Limited has confirmed Bank Guarantee amounting Rs. 6,60,22,500/- towards remediation plan and natural and community resources augmentation plan to Jharkhand State Pollution Control Board, Head Office, Ranchi vide BG No. 0962022BG0000159 dated 12.08.2022.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and attracts provisions of S.O. 804 (E) issued by MoEF&CC dated 14/03/2017 for the projects under Violation.

3. The proposal was considered by the **EAC (Industry-I) in its 49th meeting held on 16-17th December, 2021, 52nd meeting held on 27th-28th and 31st January, 2022 and 53rd meeting held on 10-11th February, 2022**. The minutes of the meetings and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in/>.

4. The details of the proposal are as per the EIA report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meeting of EAC (Industry 1) are as under :-

S.No.	Particulars	Details
a.	Terms of Reference for undertaking EIA study	09/11/2020
b.	Period of baseline data collection	Baseline data collected during 01/10/2020 to 31/12/2020.
c.	Date of Public Consultation	06/05/2017 (Fresh PH not recommended by the EAC)

S.No.	Particulars	Details																											
		– Violation sector)																											
d.	Action plan to address the PH issues	In addition to EMP budget, an amount of Rs. 160.19 Lakhs have been earmarked to address the issues raised during public hearing. PH Action Plan is enclosed as Annexure-I .																											
e.	Location of the project	Hesla, P.O. Argada, District Ramgarh, Jharkhand.																											
f.	Latitude and Longitude of the project site	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>23⁰39'00.0"N</td> <td>85⁰27'48.8"E</td> </tr> <tr> <td>B</td> <td>23⁰38'53.5"N</td> <td>85⁰27'42.8"E</td> </tr> <tr> <td>C</td> <td>23⁰38'50.3"N</td> <td>85⁰27'45.0"E</td> </tr> <tr> <td>D</td> <td>23⁰38'44.0"N</td> <td>85⁰27'39.4"E</td> </tr> <tr> <td>E</td> <td>23⁰39'46.1"N</td> <td>85⁰27'54.3"E</td> </tr> <tr> <td>F</td> <td>23⁰38'51.2"N</td> <td>85⁰27'55.5"E</td> </tr> <tr> <td>G</td> <td>23⁰38'53.5"N</td> <td>85⁰27'52.9"E</td> </tr> <tr> <td>H</td> <td>23⁰38'57.4"N</td> <td>85⁰27'54.9"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	23 ⁰ 39'00.0"N	85 ⁰ 27'48.8"E	B	23 ⁰ 38'53.5"N	85 ⁰ 27'42.8"E	C	23 ⁰ 38'50.3"N	85 ⁰ 27'45.0"E	D	23 ⁰ 38'44.0"N	85 ⁰ 27'39.4"E	E	23 ⁰ 39'46.1"N	85 ⁰ 27'54.3"E	F	23 ⁰ 38'51.2"N	85 ⁰ 27'55.5"E	G	23 ⁰ 38'53.5"N	85 ⁰ 27'52.9"E	H	23 ⁰ 38'57.4"N	85 ⁰ 27'54.9"E
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g.	Total land	14.38 ha [Private:14.38 ha]																											
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The existing units is installed in 25.54 Acres (10.34 Ha.) of land which is owned by JIPL. Company has taken adjacent land area of 10 Acres (4.04 Ha.) on 30 years lease. Thus, the total land after expansion will be 14.38 ha and total land is under possession of JIPL.																											
i.	Existence of habitation & involvement of R&R, if any	Nil.																											
j.	Elevation of the project site	335 m above mean sea level																											
k.	Involvement of Forest land if any.	No involvement of Forest land.																											
l.	Water body exists within the project site as well as study area	<p>Project Site: No water bodies within the project site.</p> <p>Study area</p> <table border="1"> <thead> <tr> <th>Water Body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>River Damodar</td> <td>0.3 km</td> <td>South</td> </tr> </tbody> </table>	Water Body	Distance	Direction	River Damodar	0.3 km	South																					
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River Damodar	0.3 km	South																											
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>Nil.</p> <p>However, following forests are existing in the study area:</p> <p>PF at 5.0 km (SW), PF at 5.5 km (NNE), PF at 8.4 km (South), PF at 9.2 km (NNW).</p>																											
n.	Project cost	Existing- Rs. 54.12 Crores Proposed - Rs. 186.63 Crores (after proposed expansion total capital cost of the project is Rs 240.75 Crores)																											
o.	EMP cost	The capital cost for environmental protection measures along with the budget of activities to address Public Hearing Issues is proposed as Rs. 5.7011 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 0.475 Crores.																											
p.	Employment opportunity	394 Nos.																											
q.	Water and Power requirement	Water: 2906 KLD (Total after Expansion)																											

S.No.	Particulars	Details
		Power –18 MW (Total after Expansion)

Unit configuration and capacity:

Sl. No	Project Details	Existing Installed Units				Proposed Units		Total (Existing + Proposed)	
		Non/Violating		Violating Units		Unit	Prod. (TPA)	Unit	Prod. (TPA)
		Unit	Prod. (TPA)	Unit	Prod. (TPA)				
1.	Sponge Iron Plant	2x100 TPD	60,000	2x100 TPD	60,000	--	--	4x100 TPD	120,000
2.	Induction Furnaces	--		2x12T		1x12T		3x12T	
3.	Billet Caster			2strands 6/11m	72,000	1strand 6/11m	36,000	3strand 6/11m	108,000
4.	Rolling Mill	--		--		300 TPD	90,000	300 TPD	90,000
5.	Captive Power Plant AFBC Boiler WHRB	--		--		1 4	12 MW 6 MW	1 4	12 MW 6 MW

5. The EAC (Industry-I) in its 53rd meeting held on 10-11th February, 2022 based on information & clarifications provided by the project proponent and after detailed deliberations recommended the instant expansion proposal for grant of Environment Clearance under EIA Notification, 2006 subject to stipulation of specific and general conditions as detailed in the paragraph given below.

6. The matter has been examined in the Ministry and accordingly the Jharkhand State Pollution Control Board vide letter Memo no. B-1767 dated 01.09.2022, has confirmed that M/s Jharkhand Ispat Private Limited has submitted Bank Guarantee amounting Rs. 6,60,22,500/- towards remediation plan and natural and community resources augmentation plan to Jharkhand State Pollution Control Board, Head Office, Ranchi vide BG No. 0962022BG0000159 dated 12.08.2022.

7. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1) hereby decided to grant Environment Clearance for instant proposal of **M/s. Jharkhand Ispat Private Limited** under the provisions of EIA Notification, 2006 and **as per S.O. 804(E) dated 14/03/2017** subject to the following specific conditions and general conditions.

A. Specific conditions:

- Damage remediation measures @ cost of Rs. 660.22 lakhs shall be implemented as per the action plan submitted in the EIA report.
- Jharkhand State Pollution Control Board vide letter Memo no. B-1767 dated 01.09.2022, has confirmed that M/s Jharkhand Ispat Private Limited has submitted Bank Guarantee amounting Rs. 6,60,22,500/- towards remediation plan and natural and community resources augmentation plan to Jharkhand State Pollution Control Board, Head Office, Ranchi vide BG No. 0962022BG0000159 dated 12.08.2022. Project proponent shall

implement the plan and it shall be completed in three years whereas the bank guarantee shall be for five years. The bank guarantee shall be released by the SPCB after successful implementation of Remediation plan, Natural Resource Augmentation Plan and Community Resource Augmentation plan (**Copy of plan is enclosed herewith**).

- iii. PP shall meet the 2906 KLD water requirement from Damodar River after obtaining requisite permission from the concerned competent authority. Ground water abstraction for industrial purpose is not permitted.
- iv. Railway siding for the material transportation shall be provided by December, 2022 as committed.
- v. Green Belt shall be developed in 40 % of total land with tree density of 2500 trees per ha. (or 1000 trees per acre) all along the periphery of the project site. This shall include development of green belt with a width of 10-20 m within the project site towards Argarda village and Mahuwa Tand village.
- vi. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- vii. Effluent treatment plant shall be provided for 225 KLD effluent and treated water shall be reutilized in plant process.
- viii. Particulate matter emission from stacks shall be less than 30 mg/Nm³.
- ix. 100 % solid waste shall be utilized. Dumping is not permitted.
- x. Project proponent shall operate the violating unit “2x100 TPD DRI Kiln and 2x12 T Induction Furnace” only after obtaining Environmental Clearance and valid consent from state pollution control board as committed in the undertaking submitted to the Ministry.
- xi. 80-85 % hot charging for billets shall be done. Balance rolling shall be carried out through reheat furnace operating on LDO/LSHS.
- xii. All plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly.
- xiii. All stock piles shall be constructed over impervious soil and garland drains with catch pits to trap run off material shall be constructed.

B. General conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- iii. 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 stack emission and fugitive emission standards.
- iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- vii. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- viii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- ix. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Adhere to 'Zero Liquid Discharge'.
- iv. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- v. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation And Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

- i. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.

VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.

- iii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused in melting Furnaces.
- iv. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.
- ii. 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.
- iii. 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.

X. Miscellaneous

- i. 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.
- ii. 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.
- iii. 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.

- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
 - v. 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.
 - vi. 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.
 - vii. The project proponent 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, commencing the land development work and start of production operation by the project.
 - viii. 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.
 - ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - x. 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.
 - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xiv. 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.
8. This issues with the approval of the Competent Authority.



(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Tel: 011-20819346
Email-rb.lal@nic.in

Encl.: As above

Copy to:-

1. Secretary, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.

3. The Principal Chief Conservator of Forests & Government of Jharkhand, Van Bhawan, P.O. Hinoo, Doranda, Ranchi-823002
4. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Bungalow No. A-2, Shyamali Colony, Ranchi – 834002
5. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. Chairman, Jharkhand State Pollution Control Board, CTI Colony, Sector 4, Birsa Nagar, Ranchi, Jharkhand 834004
7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
8. District Collector, District Ramgarh, Jharkhand.
9. Guard File/Monitoring File/MoEFCC Website/Record File/Parivesh portal.



(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Tel: 011-20819346
[Email-rb.lal@nic.in](mailto:rb.lal@nic.in)

Table: Details of Action Plan as per MoEF&CC O. M. dated 30/09/2020

S No	Activities	Amount in INR		
		1 st Year	2 nd Year	Total
1	Community Development			
	Installation of one number of bore/well based on Solar Pump C:\Users\HP\OneDrive\Desktop\49 EAC\I\NOC Borewell.pdf system along with water storage Tank each in Village Hesla and Mahuatand, District: Ramgarh	3,068,360 [Complete installation of bore/well having pump based on Solar power and water storage tanks]	--	30,68,360
	Greenbelt of 15m width, covering an area of 0.45 ha. will be developed along the periphery of the village Argada, District: Ramgarh, Jharkhand	450,000.00 [Greenbelt Development along the periphery of Argada Village]	--	4,50,000
2	Health Development			
	Establishment of 16 Bedded Hospital with advance medical facilities with affordable and quality services in village & P.O Marar, District: Ramgarh	4,278,631 [Civil work for two floor building]	8,222,479 [Hospital equipment, Lift, Furniture, Electrification, Air Conditioner, etc]	1,25,01,110
Grand Total in INR				16,019,470.0

Table 1: Details of Yearly Budget for implementation of Remediation Plan

S. No.	Environment Component	Activity Description	Total Budgetary Provision in Rs.			
			1 st Year	2 nd Year	3 rd Year	Total
1	Land Environment	1.Assistance to farmers by providing seedlings, manure and Bio-fertilizers to villagers of Hesla and Maraar= Rs.46,000/- 2.Providing one tractor (Make Mahindra) with hydraulic trolley and Rotavator to be provided to each Nagar panchayat of village Hesla and Maraar = Rs.34,00,000/- 3.Providing Bundmaker, Ridger, plough for agriculture purpose to villagers of Hesla and Maraar= Rs.4,24,500/-	19,35,250 (Providing Tractor, Bundmaker, Ridger, Plough and Seedlings, manure in Nagar panchayat of Hesla)	19,35,250 (Providing Tractor, Bundmaker, Ridger, Plough and Seedlings, manure in Nagar panchayat of Maraar)	--	38,70,500
2	Air Environment	1. Providing four E-Rickshaw (4-seater, Make: Mac Auto) with charger for public transport in each Barkakana, Maraar, Phulsarai and Argada villages = Rs35,00,000/- 2. Solar stove, solar street light & solar fan in Argada & Hesala village= Rs.16,54,000/-	17,50,000 (Providing 4E-Ricksaweach in Barkakana and Maraar villages)	17,50,000 (Providing 4E-Ricksaweach in Phulsarai and Argada villages)	16,54,000 (Solar stove, solar street light & solar fan in Argada & Hesala village)	51,54,000
3	Water Environment	1.Drinking water plant (10nos.) including bore well with solar power with water cooler including RO & UV in Argada & Hesala village- Rs1,70,00,000/- 2. Sewage treatment plant in village Hesla Rs 60,82,000/- 3. Rain water harvesting pit (@Rs.4lakhs/location) at Panchayat office of Hesla, Argada, Barkakana, Manuan, Maraar and Phulsarai villages= Rs.24,00,000/- 4. Renovation of Ponds (Includes Cleaning/desiltation, concrete	1,94,00,000 (Drinking water plant (10 nos) including borewell with solar power with water cooler including RO & UV in Argada & Hesala village & Rainwater Harvesting pit at Panchayat office of Hesla, Argada, Barkakana, Manuan, Maraar and Phulsarai	1,16,00,000 (Renovation of Ponds (Includes Cleaning /desiltation, concrete Lining) and construction of wharf and platforms in pond located in each of Argada, Hesla, Manuan, and Maraar villages)	86,45,000 (Construction of Covered Drainage system along with sewage pit within village Hesla & Sewage treatment plant in Hesla)	3,96,45,000

S. No.	Environment Component	Activity Description	Total Budgetary Provision in Rs.			
			1 st Year	2 nd Year	3 rd Year	Total
		Lining) and construction of wharf and platforms in pond located in each of Argada, Hesla, Manuan, and Maraar villages (Rs.2,800,000x4 +400,000) = Rs.1,16,00,000/- 5. Construction of Covered Drainage system along with sewage pits within village Hesla = Rs.25,63,000/-				
4	Noise Environment	1. Providing ENT clinic along with Doctor in Hesla and Argada villages= Rs 4,86,000/- 2. Distribution of Hearing aids to the needed Sr. Citizens of the Hesla, Maraar and Argada villages @ 1000x500 person = Rs.5,00,000/-	4,86,000 (Providing ENT specialist Clinic along with Doctor in Hesla and Argada villages)	5,00,000 (Distribution of Hearing Aids to the needed Sr. Citizens of the Hesla, Maraar and Argada villages)	--	9,86,000
5	Biological Environment	1.Funds for conservation of fauna in Phulsarai Protected Forest to the District Office= Rs.6,10,000/ . Funds for conservation of aquatic life in Damodar River to the District collector/ Water resource Department = Rs. 6,30,000/-	6,10,000 (Funds for conservation of fauna residing in Naisarai Protected forest)	6,30,000 (Funds for conservation of aquatic life in Damodar River)	--	12,40,000
Total			2,41,81,250	1,64,15,250	1,02,99,000	50895500

Table 2: Natural Resource Augmentation Plan along with budget

Sl. No.	Proposed Activities	Budget (Rs.)			
		1 st Year	2 nd Year	3 rd Year	Total
1	Installation of Biodegradable waste converter (Make: Reddonatura, Capacity: 75kg/day) in Argada, Manuan and Hesla village	10,00,000 (Argada)	10,00,000 (Manuan)	10,00,000 (Hesla)	30,00,000
2	Cattle food processing plant with veterinary hospital at Hesla villages	12,00,000	5,00,000	--	17,00,000
3	Biogas plant in Manuan, Barkakana and Maraar village	8,00,000 (Manuan)	8,00,000 (Barkakana)	8,00,000 (Maraar)	24,00,000
Total		30,00,000	23,00,000	18,00,000	71,00,000

Table 3: Community Resource Augmentation Plan along with budget

S. No.	Proposed Activities	Budget (Rs.)			Total
		1 st Year	2 nd Year	3 rd Year	
1.	Oxygen plant at Hesla village	40,00,000	40,00,000	27,000	80,27,000

Table 4: Summary of Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan

S No	Aspects	Budget (in Rupees)
1.	Estimated Cost on remediation plan based on the damage assessment due to violation.	5,08,95,500
2.	Natural resource augmentation plan for 3 years	71,00,000
3.	Community resource augmentation plan for 3 years	80,27,000
	Total	~6,60,22,500

