



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

To,

The VP
SHYAM STEEL WORKS (P) LIMITED
SHYAM TOWER, EN 32, SECTOR-V, SALT LAKE,
KOLKATA,,Kolkata,West Bengal-700091

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/WB/IND1/408696/2022 dated 04 Jan 2023. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23A008WB145455
2. File No.	IA-J-11011/228/2021-IA-II(IND-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	Integrated Steel Plant
7. Name of Company/Organization	SHYAM STEEL WORKS (P) LIMITED
8. Location of Project	West Bengal
9. TOR Date	N/A

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

Date: 28/02/2023

(e-signed)
Dr. R. B. Lal
Scientist F
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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IA-J-11011/228/2021-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

Indira Paryavaran Bhawan
Vayu Wing, 3rd Floor,
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 28th February, 2023

To,

M/s Shyam Steel Works (P) LTD,
Shyam Tower, En 32, Sector-V, Salt Lake,
Kolkata-700091
West Bengal
Email: purulia@shyamsteel.com

Project: Greenfield project comprising of Iron Ore Beneficiation Plant 2x1.5 MTPA) - 3.0 MTPA, Pellet Plant (2 x 1.2 MTPA) – 2.4 MTPA, Producer Gas Plant (14 x 5000 NM³/Hr.)- 588 MNM³ per annum, DRI Kilns (8x600 TPD) – 1.68 MTPA, WHRB Power through DRI kilns – (8 x 15 MW)-120 MW ,Through BF - 18 MW , Through Coke Oven- 15 MW and CFBC based Power Plant of (2 x 15 MW)- 30 MW, SMS – IF (18 x 20 T) with LRF (6 X 20 T)- 1.26 MTPA, BOF (1 x 50 T) with LRF (1 x 50 T) and VD unit (1 x 50 T)- 0.525 MTPA and EAF (1 X 50 T)with LRF (1 x 50 T) - 0.175 MTPA, Rolling Mill through hot charging (3 x 1000 TPD) - 1.05 MTPA, Sinter Plant (1x 100 m²) – 1.092 MTPA ,Blast Furnace (1x750 m³) – 0.7875 MTPA, Coke Oven Plant (Non recovery) – 0.5 MTPA, Ferro Alloys (4 x 9 MVA)- 0.084 MTPA, Oxygen Plant (1x250 TPD) -0.087 MTPA, Lime & Dolomite Plant (1x 450 TPD) – 0.1575 MTPA, Brick Manufacturing Unit -350 Million Bricks/Year & Slag Recycling Plant (1 x 150 TPD) – 0.0525 MTPA by M/s Shyam Steel Works (P) LTD., located at Jangal Sundari Karmanagri- Parcel II, Lachhmanpur, Jarukhamar, Siulibari, Digardhi, Shikratyar, Senera & Talshankra Village/ Mouza, Raghunathpur-1 Tehsil/Block, Purulia District, West Bengal–Grant of Environmental Clearance.

Sir,

This refers to your proposal no. **IA/WB/IND1/408696/2022** dated **04-01-2023** received through PARIVESH Portal for grant of **Environmental Clearance (EC)** for the project mentioned above. Further PP has uploaded the information on Parivesh portal on 03.02.2023.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category 'A' of schedule no. 3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

3. The above mentioned proposal was considered in the 21st meeting of the EAC for Industry-I sector held on **16-17th January, 2023**, wherein the Committee, after detailed deliberations, recommended the proposal. The minutes of the meeting 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/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are as under: -

S. No.	Particulars	Details submitted by PP																																																																																												
a.	Terms of Reference for undertaking EIA study	27 th January 2022																																																																																												
b.	Period of baseline data collection	1 st March 2022 to 31 st May 2022.																																																																																												
c.	Date of Public Consultation	28 th September 2022																																																																																												
d.	Action plan to address the PH issues	An amount of Rs. 69.09 Crores has been earmarked to address the issues raised during public hearing and need based activity. Detail of activities proposed attached as Annexure 1 .																																																																																												
e.	Location of the project	Jangal Sundari Karmanagri- Parcel II, Lachhmanpur, Jarukhamar, Siulibari, Digardhi, Shikratyar, Senera & Talshankra Village/ Mouza, Raghunathpur-1 Tehsil/Block, Purulia District, West Bengal																																																																																												
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g.	Total land	242.81 hectares. (600 Acres).																												
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Land has been allotted & physical possession given.																												
i.	Existence of habitation & involvement of R&R, if any	<p>Project site: No habitation exists in the plant site. Hence R&R not applicable.</p> <p>Study Area No habitation exists in the project site</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Maharaj Nagar</td> <td>0.02 Kms.</td> <td>SE</td> </tr> <tr> <td>Lachhmanpur</td> <td>0.03 Kms</td> <td>E</td> </tr> <tr> <td>Shikratyar</td> <td>0.06 Kms</td> <td>S</td> </tr> <tr> <td>Digardhi</td> <td>0.05 Kms</td> <td>SE</td> </tr> <tr> <td>Jarukhamar</td> <td>0.54 Kms</td> <td>NW</td> </tr> <tr> <td>Talshankra</td> <td>1.7 Kms</td> <td>SW</td> </tr> <tr> <td>Senera</td> <td>0.85 Kms</td> <td>S</td> </tr> </tbody> </table>			Habitation	Distance	Direction	Maharaj Nagar	0.02 Kms.	SE	Lachhmanpur	0.03 Kms	E	Shikratyar	0.06 Kms	S	Digardhi	0.05 Kms	SE	Jarukhamar	0.54 Kms	NW	Talshankra	1.7 Kms	SW	Senera	0.85 Kms	S		
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j.	Elevation of the project site	129 m to 160 m AMSL																												
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 :</p> <table border="1"> <thead> <tr> <th>Water Body</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>2 nos. of Ponds in Digardhi Village</td> <td>Within the site</td> </tr> <tr> <td>1 no. of pond in Lachhmanpur Village</td> <td>Within the site</td> </tr> <tr> <td>1 no. of pond in Siulibari Village</td> <td>Within the site</td> </tr> </tbody> </table> <p>Stream is passing along South West Boundary toward North direction approaching Panchet Reservoir</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>UttalaNadi</td> <td>3.5 Kms</td> <td>NW</td> </tr> <tr> <td>Panchet Reservoir</td> <td>8.0 Kms</td> <td>NNE</td> </tr> <tr> <td>Panchet Dam</td> <td>9.0 Kms</td> <td>NNE</td> </tr> <tr> <td>Ramachandrapur Reservoir</td> <td>10.2 Kms</td> <td>E</td> </tr> <tr> <td>Maharaj Nagar Village Pond</td> <td>0.4 Kms</td> <td>SE</td> </tr> </tbody> </table>			Water Body	Distance	2 nos. of Ponds in Digardhi Village	Within the site	1 no. of pond in Lachhmanpur Village	Within the site	1 no. of pond in Siulibari Village	Within the site	Water Body	Distance	Direction	UttalaNadi	3.5 Kms	NW	Panchet Reservoir	8.0 Kms	NNE	Panchet Dam	9.0 Kms	NNE	Ramachandrapur Reservoir	10.2 Kms	E	Maharaj Nagar Village Pond	0.4 Kms	SE
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		Durmut Village Pond	2.9 Kms	W																						
		Garh Panchkot Village Pond	3.8 Kms	NEE																						
		Few seasonal nalas, ponds exist within the study area																								
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil List of Reserved and protected forests. <table border="1"> <thead> <tr> <th>Name</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>Senara R.F.</td> <td>0.05 Kms. (S)</td> </tr> <tr> <td>Indira Pahari P.F.</td> <td>0.12 Kms. (SSW)</td> </tr> <tr> <td>Panchet R.F.</td> <td>2.8 Kms. (NNE)</td> </tr> <tr> <td>Bindabanpur P.F.</td> <td>2.0 Kms. (SE)</td> </tr> <tr> <td>Muktipur P.F.</td> <td>4.0 Kms. (SEE)</td> </tr> <tr> <td>Bheti P.F.</td> <td>5.5 Kms. (SEE)</td> </tr> <tr> <td>Dubrajpur PF</td> <td>6.5 Kms. (SEE)</td> </tr> <tr> <td>Dandahit PF</td> <td>11.6 Kms. (SEE)</td> </tr> <tr> <td>Unnamed PF</td> <td>0.65 Kms. (SW)</td> </tr> <tr> <td>Unnamed PF</td> <td>1.6 Kms. (NW)</td> </tr> </tbody> </table>			Name	Distance	Senara R.F.	0.05 Kms. (S)	Indira Pahari P.F.	0.12 Kms. (SSW)	Panchet R.F.	2.8 Kms. (NNE)	Bindabanpur P.F.	2.0 Kms. (SE)	Muktipur P.F.	4.0 Kms. (SEE)	Bheti P.F.	5.5 Kms. (SEE)	Dubrajpur PF	6.5 Kms. (SEE)	Dandahit PF	11.6 Kms. (SEE)	Unnamed PF	0.65 Kms. (SW)	Unnamed PF	1.6 Kms. (NW)
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n.	Project cost	The capital cost of the project is Rs. 4591 Crores																								
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Proposed	182.5 Crores	Rs. 40.0 Crores																								
p.	Employment opportunity	The employment generation from the proposed project is 8,000 nos.																								
q.	Water and Power requirement	Water – Estimated as 30,743 KLD The power requirement for the project is estimated as 256.60 MW																								

Unit configuration and capacity:

S. No.	Unit (product)	Unit configuration	Production capacity
1	Iron ore beneficiation plant (I/O concentrate)	2 x 1.5 MTPA	3.0 MTPA
2	Pelletization Plant (pellets)	2 x 1.2 MTPA	2.4 MTPA
3	Producer Gas Plant (Producer Gas)	14 X 5000 NM ³ /HR	588 MNM ³ /annum
4	DRI Kiln (Sponge Iron)	8 x 600 TPD	1.68 MTPA
5	Power generation through WHRB from DRI Kiln	8 x 15 MW	120 MW
6	Power generation through WHRB from Blast Furnace	1 x 18 MW	18 MW
7	Power generation through WHRB from Coke Oven	1 x 15 MW	15 MW
8	Power generation through CFBC Boiler	2 x 15 MW	30 MW
9	SMS {IF+LRF} – (Hot Billets / M.S.Billets)	18 x 20 T	1.26 MTPA
10	SMS {BOF+LRF*+ VD} - (Hot Billets / M.S.Billets)	1 x 50 T	0.525 MTPA
11	SMS (EAF+LRF*) - (Hot Billets / M.S.Billets)	1 x 50 T	0.175 MTPA
12	Rolling Mill through Hot charging (Rolled)	3 x 1000 TPD	1.05 MTPA

S. No.	Unit (product)	Unit configuration	Production capacity
	products i.e. TMT bars / Angles / Channels e.t.c) 85% Hot charging + 15% through RHF		
13	Blast Furnace (Pig Iron)	1 x 750 m ³	0.7875 MTPA
14	Coke oven plant (Coke)	1 x 0.5 MTPA	0.5 MTPA
15	Sinter Plant (Sinter)	1 x 100 m ²	1.092 MTPA
16	Ferro Alloy Unit (FeMn (or) SiMn (or) FeCr (or) Pig Iron)	4 x 9 MVA	0.084 MTPA
17	Oxygen Plant	1 x 250 TPD	0.0875 MTPA
18	Lime & Dolomite Plant	1 x 450 TPD	0.1575 MTPA
19	Brick Manufacturing plant	10 Lakh Bricks /day	350 Million Bricks /annum
20	Slag Recycling Plant	1 x 150 TPD	0.0525 MTPA
Note - * Mentioned LRF is common for BOF & EAF			
Note: Briquetting plant of 400 Kg/hr will be provided for effective dust emission management.			

5. The EAC, in its meeting held **during 16-17th January, 2023**, inter-alia, deliberated the following:

- i. The instant proposal is for setting up of a new Integrated Steel plant comprising of Iron Ore Beneficiation Plant (2x1.5 MTPA) - 3.0 MTPA, Pellet Plant (2 x 1.2 MTPA) – 2.4 MTPA, Producer Gas Plant (14 x 5000 NM³/Hr.)- 588 MNM³ per annum, DRI Kilns (8x600 TPD) – 1.68 MTPA, WHRB Power through DRI kilns – (8 x 15 MW)-120 MW ,Through BF - 18 MW , Through Coke Oven- 15 MW and CFBC based Power Plant of (2 x 15 MW)- 30 MW, SMS – IF (18 x 20 T) with LRF (6 X 20 T)- 1.26 MTPA, BOF (1 x 50 T) with LRF (1 x 50 T) and VD unit (1 x 50 T)- 0.525 MTPA and EAF (1 X 50 T)with LRF (1 x 50 T) - 0.175 MTPA, Rolling Mill through hot charging (3 x 1000 TPD) - 1.05 MTPA, Sinter Plant (1x 100 m²) – 1.092 MTPA ,Blast Furnace (1x750 m³) – 0.7875 MTPA, Coke Oven Plant (Non recovery) – 0.5 MTPA, Ferro Alloys (4 x 9 MVA)- 0.084 MTPA, Oxygen Plant (1x250 TPD) -0.087 MTPA, Lime & Dolomite Plant (1x 450 TPD) – 0.1575 MTPA, Brick Manufacturing Unit -350 Million Bricks/Year & Slag Recycling Plant (1 x 150 TPD) – 0.0525 MTPA.
- ii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- iii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- iv. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

- v. It was informed by the project proponent that Environment Clearance for the project site mentioned above was accorded by the Ministry vide letter no. J-11011/1283/2007-IA.II(I) dated 5/01/2010. However, the project activity could not be commenced due to financial issues. Subsequently, the land as well as EC was surrendered to WBIDC and MoEF&CC respectively. Therefore, proposed project is a Greenfield project.
- vi. The nearest human settlement from the site are Maharaj Nagar (0.02 Km, SE), Lachhmanpur (0.03 Km, E), Shikratyar (0.06 Km, S), Digardhi (0.05 Km, SE), Jarukhamar (0.54 Km, NW), Talshankra (1.7 Km, SW) and Senera (0.85 Km, S). The EAC advised that Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include some of these locations in its environmental monitoring programme.
- vii. There are 2 ponds in Digardhi village, a pond in Lachhmanpur and a pond in Siulibari village within the project site. There is Stream is passing along South West Boundary toward North direction approaching Panchet Reservoir. Apart from these UttalaNadi (3.5 Km, NW), Panchet Reservoir (8.0 Km, NNE), Panchet Dam (9.0 Km, NNE), Ramachandrapur Reservoir (10.2 Km, E), Maharaj Nagar Village Pond (0.4 Km, SE), Sikratyar village pond (Adjacent, S), Kelahi village pond (0.5 Km, W), Durmut Village Pond (2.9 Km, W), and Garh Panchkot Village Pond (3.8 Km, NEE) exists within the study area of the project site. The EAC is of the opinion that water body shall not be disturbed. Mitigation measures w.r.t. safeguarding the water body shall be implemented.
- viii. 30,743 KLD water will be required for the proposed project; which will be sourced from Panchet Reservoir of Damodar Valley Corporation.
- ix. Greenbelt will be developed in 81.94 Ha. (202.5 Acres) out of 242.811 Ha. of land which is about 34% of the total project area. Total no. of plants will be 2,05,000 nos. which is 2500 nos. of plants will be planted per Hectare as per CPCB norms. nurtured within 4 years from the date of receipt of EC. The Committee deliberated on the action plan and budget allocation for green belt development and found it satisfactory.
- x. It is proposed to cut 470 nos. of trees as part of proposed project. Tree Cutting Permission has been obtained from Forest Department, Raghunathpur Range, Kangsabati North Division by making required payment. Compensatory afforestation will be taken up @ 5 trees/plant is 2,350 nos. within the project site premises, which accounts to 1.0 Ha. additional Greenbelt.
- xi. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- xii. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xiii. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xiv. The Committee deliberated upon the written submission of the Project Proponent and found it satisfactory.
- xv. The Committee also deliberated upon the letter of State Forest Department w.r.t. non-involvement of forest land and found it satisfactory.
- xvi. During deliberation, the stated that there will generation of tailing about 0.5 million ton per year through filter press and they are putting matching capacity brick manufacturing plant to consume the tailing. The PP also appraised that they will maintain a stock of solid tailing production of 45 days in the designated area.

- xvii. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- xviii. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. 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. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

6. The EAC, in its **21st meeting of Expert Appraisal Committee (Industry-1 Sector) held on 16-17th January, 2023**, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for grant of Environment Clearance subject to uploading the written submission on portal under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

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 Sector) hereby decided to grant **Environment Clearance for instant proposal of M/s Shyam Steel Works (P) LTD** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific conditions:

- (i) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (iii) Tailings from Iron Ore washing plant shall be dewatered in filter press and stored dry maximum for a period of 45 days inside the plant premises.
- (iv) Solid waste utilization
 - a. Maximum 90 days of slag storage area shall be permitted inside the plant.
 - b. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - c. PP shall recycle/reuse 100 % solid waste generated in the plant.
 - d. Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
 - e. Used refractories shall be recycled as far as possible.

- (v) Sinter Plant
 - a. Sinter cooler waste recovery system shall be installed to generate process steam or power.
 - b. Equipped with MEROS technology to reduce emission of SO₂, NO_x and heavy metals.
- (vi) Coke Oven Plant
 - a. Coke Dry Quenching (CDQ) shall be installed.
 - b. Coke Oven Gas shall be desulfurized.
 - c. Tar sludge shall be mixed with coal and reused.
- (vii) BF shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
- (viii) Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
- (ix) Basic Oxygen Furnace (BOF) gas shall be cleaned dry.
- (x) Waste Heat Recovery system for charge preheating shall be included for Electric Arc Furnace.
- (xi) Action plan for setting up of captive railway siding for transportation of materials shall be implemented.
- (xii) Submerged Arc Furnace and Electric Arc Furnace shall be closed type with 4th hole extraction system.
- (xiii) 85-90 % of billets/slabs shall be rolled directly in hot stage. Only 10-15 % rolling shall be done through RHF using only Light Diesel Oil or Mixed BF/CO gas.
- (xiv) Dust emission from Steel Plant stacks shall not exceed 30 mg/Nm³.
- (xv) The nearest human settlement from the site are Maharajnar (0.02 Km, SE), Lachhmanpur (0.03 Km, E), Shikratyar (0.06 Km, S), Digardhi (0.05 Km, SE), Jarukhamar (0.54 Km, NW), Talshankra (1.7 Km, SW) and Senera (0.85 Km, S). Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include some of these locations in its environmental monitoring programme.
- (xvi) 30,743 KLD water will be required for the proposed project; which will be sourced from Panchet Reservoir of Damodar Valley Corporation. Necessary permission shall be obtained from the Competent Authority in this regard. No ground water extraction is permitted.
- (xvii) There are 2 ponds in Digardhi village, a pond in Lachhmanpur and a pond in Siulibari village within the project site. Action plan for conservation of Digardhi Village Pond and Sikratyar village pond shall be strictly implemented.
- (xviii) There is Stream is passing along South West Boundary toward North direction approaching Panchet Reservoir. Apart from these UttalaNadi (3.5 Km, NW), Panchet Reservoir (8.0 Km, NNE), Panchet Dam (9.0 Km, NNE), Ramachandrapur Reservoir (10.2 Km, E), Maharajnar Village Pond (0.4 Km, SE), Sikratyar village pond (Adjacent, S), Kelahi village pond (0.5 Km, W), Durmut Village Pond (2.9 Km, W), and Garh Panchkot Village Pond (3.8 Km, NEE) exists within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- (xix) PP shall undertake village adoption and formulate Village Adoption program consisting of need-based community development activities, shall be prepared to develop them into model villages. PP shall submit details of the villages to be adopted.

- (xx) The Action Plan for the Panch-tatva (5 commitments) including fossil fuel reduction road map and net-zero carbon emissions shall be strictly implemented.
- (xxi) The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- (xxii) The company shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- (xxiii) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- (xxiv) All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.
- (xxv) Three tier Green Belt shall be developed covering at least 33% of the total project area maximum in the 1st year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy to act as green barrier for air pollution & noise levels towards the villages namely Maharajnagar (0.02 Kms), Lachhmanpur (0.03 kms), Shikratyar (0.06 Kms) and Digardhi (0.05 kms) inside the plant premises. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- (xxvi) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xxvii) Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- (xxviii) Parking area for trucks/dumpers shall be provided within the steel plant. No truck/dumper shall be parked outside the steel plant premises.
- (xxix) Air Cooled condensers shall be used in the captive power plant.
- (xxx) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxxi) The environmental issues arising out from the route for producing of billets shall be controlled and mitigation measures be implemented.
- (xxxii) All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report.
- (xxxiii) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (xxxiv) The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at

<https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.

- (xxxv) The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

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 06 Nos. 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 recognized 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 recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
- iv. 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.
- v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- vii. 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.
- viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

- ix. Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
- x. Land-based APC system shall be installed to control coke pushing emissions.
- xi. Monitor CO, HC and O₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
- xii. Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
- xiii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xiv. 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 vide G.S.R 277 (E) dated 31st March 2012 (Integrated Iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; 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 recognized 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 recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time;
- 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.
- vi. Tyre washing facilities shall be provided at the entrance of the plant gates.
- vii. Treated water from ETP of COBP shall not be used for coke quenching.
- viii. Water meters shall be provided at the inlet to all unit processes in the steel plants.

IV. Noise monitoring and prevention

- i. Noise pollution 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. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
- ii. Restrict Gas flaring to < 1%.

- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- iv. Provide LED lights in their offices and residential areas.
- v. Ensure installation of regenerative type burners on all reheating furnaces.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames", when PP comes for EC proposal. This study shall be formulated keeping in view of India's Net-zero commitment at the COP-26 Climate Summit.

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.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- 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. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages, based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed by the PP.
- ii. The company shall have a well laid down environmental policy duly approve 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 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, NOx (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. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- x. 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).
- xi. 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.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

9. 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 the Environment (Protection) Act, 1986.

10. Any appeal against this environmental clearance 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.

11. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

12. This issues with approval of the competent authority.



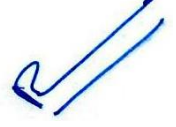
(Dr. R. B. Lal)
Scientist 'F'/ Director
Tel: 011-20819346
Email-rb.lal@nic.in

Encl. as above at Annexure –I

Copy to: -

1. The Secretary, Department of Environment, Government of West Bengal, Secretariat Kolkata.
2. The Secretary, Department of Forests, Government of West Bengal, Kolkata.
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests, Government of West Bengal, Block LA, 10A Sector-III, Salt Lake City, Kolkata-700098.
5. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, IB-198, Sector-II, Salt Lake City, Kolkata – 700106
6. The Member Secretary, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
7. The Member Secretary, West Bengal State Pollution Control Board, Paribesh Bhawan, 10A-Block LA, Sector –III, Salt Lake City, Kolkata – 700 098.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi 110001.

9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
10. District Collector, Purulia, District, West Bengal.
11. Guard File/Monitoring File/Website/Record File/ Parivesh Portal



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Table: Action Plan as per Ministry's O.M. dated 30/09/2020

S. No.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
A). Based on Need Based & SIA Study								
1	Community & Infrastructure Development							
	i) Impart technical training to the local youth and women for skill development @ 100000 per candidate.	Physical Nos. & village	100 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. Lachhmanpur & Siulibari,	90 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. Jarukhamar & Maharajnagar	90 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. Senera & Talshankra.	85 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. igardhi & Shikratyar.	85 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. Jarka & Shimlon.	450
		Budget in Lakhs	100	90	90	85	85	
	ii) Construction of Skill Training Center.	Physical Nos. & village	Skill development to unemployed local youths and women through National Skill Development Corporation, Govt. of India Scheme. Construction of a building along with the necessary infrastructures for this purpose will be developed in 5 consecutive years. During 1st , 2nd & 3rd Year building will be constructed and in 3rd year onwards equipment will be installed					160
		Budget in Lakhs	40	40	30	30	20	
	iii) Construction of public toilets in nearby villages (120 nos @ 300000 per toilet)	Physical Nos. & village	20 nos- Lachhmanpur 10 nos- Siulibari	10 nos- Digardhi 10 nos- Shikratyar	30 nos- Senera 10 nos- Talshankra	5 nos- Jarukhamar 10 nos- Maharajnagar	5 nos- Jarka 10 nos- Shimlon	360
		Budget in Lakhs	90	60	120	45	45	
	iv) Laying of drinking water supply pipeline with overhead tanks in nearby villages (12 nos @ 1750000 per Drinking water supply facility)	Physical Nos. & village	2 no- Lachhmanpur 1 no- Siulibari	1 no- Digardhi 1 no- Shikratyar	2 no- Senera 1 no- Talshankra	1 no- Jarukhamar 1 no- Maharajnagar	1 no- Jarka 1 no- Shimlon	210
		Budget in Lakhs	52.5	35	52.5	35	35	
	v) Street	Physical	40 nos-			15 nos-		58.75

S. No.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
	Lighting (Solar) provision at suitable public places in and around the nearby villages (235 nos @ Rs. 25,000/- per Solar Light)	Nos. & village	Lachhmanpur 20 nos- Siulibari	15 nos- Digardhi 20 nos- Shikratyar	60 nos- Senera 30 nos- Talshankra	Jarukhamar 15 nos- Maharaj Nagar	10 nos- Jarka 10 nos- Shimlon	
		Budget in Lakhs	15	8.75	22.5	7.5	5	
	YEAR WISE EXPENDITURE		298	234	315	203	190	1238.75
2	Education							
	i) Providing Sports kits to Schools/ Sports club (10 nos @ 10000 per Kit)	Physical Nos. & village	1 no- Lachhmanpur 1 no- Siulibari	1 no- Digardhi 1 no- Shikratyar	1 no- Senera 1 no- Talshankra	1 no- Jarukhamar 1 no- Maharaj Nagar	1 no- Jarka 1 no- Shimlon	10
		Budget in Lakhs	2	2	2	2	2	
	ii) Providing Model Anganwadi Centre/ renovation of existing center in consultation with State Govt (10 nos @ 300000 per Center)	Physical Nos. & village	During 1st Year Lachhmanpur & Siulibari will be covered for renovation / provision of Model Anganwadi Center.	During 2nd Year Digardhi & Shikratyar will be covered for renovation / provision of Model Anganwadi Center.	During 3rd Year Senera & Talshankra will be covered for renovation / provision of Model Anganwadi Center.	During 4th Year Jarukhamar & Maharaj Nagar will be covered for renovation / provision of Model Anganwadi Center.	During 5th Year Jarka & Shimlon will be covered for renovation / provision of Model Anganwadi Center.	300
		Budget in Lakhs	60	60	60	60	60	
	iii) Providing furniture, computers, library, etc. for nearby local schools of villages (10 nos @ Rs. 20.0 Lakhs per School)	Physical Nos. & village	During 1st Year Lachhmanpur & Siulibari will be provided with the facilities mentioned.	During 2nd Year Digardhi & Shikratyar will be provided with the facilities mentioned.	During 3rd Year Senera & Talshankra will be provided with the facilities mentioned.	During 4th Year Jarukhamar & Maharaj Nagar will be provided with the facilities mentioned.	During 5th Year Jarka & Shimlon will be provided with the facilities mentioned.	200
		Budget in Lakhs	40	40	40	40	40	
	iv) Digital education Class rooms in Govt. Schools (10 nos @	Physical Nos. & village	One no of classroom in each of the village (i.e. Lachhmanpur & Siulibari)	One no of classroom in each of the village (i.e. Digardhi & Shikratyar)	One no of classroom in each of the village (i.e. Senera & Talshankra)	One no of classroom in each of the village (i.e. Jarukhamar & Maharaj Nagar)	One no of classroom in each of the village (i.e. Jarka & Shimlon)	150

S. No.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
	1500000		will be equipped with digital facilities.	will be equipped with digital facilities.	will be equipped with digital facilities.	will be equipped with digital facilities.	will be equipped with digital facilities.	
		Budget in Lakhs	30	30	30	30	30	
	YEAR WISE EXPENDITURE		132	132	132	132	132	660
3	Health Facilities							
	i) Regular health camps for local inhabitants specially for women & children. Outside workers would be tested for communicable disease.	Physical Nos. & village	Health checkup camps shall be organized in 12 nos nearby villages for general body, eyes, blood test and donation along with mass vaccination for polio, dengue, typhoid, malaria, etc. For this purpose, one doctor along with 2 – 3 assistants shall be deputed.					1000
		Budget in Lakhs	200	200	200	200	200	
	ii) Sanitation facility in existing schools, parks and other installations (10 nos @1500000 per Village)	Physical Nos. & village	Sanitation facilities to be provided to the village Lachhmanpur & Siulibari during 1st Year.	Sanitation facilities to be provided to the village Digardhi & Shikratyar during 2nd Year.	Sanitation facilities to be provided to the village Senera & Talshankra during 3rd Year.	Sanitation facilities to be provided to the village Jarukhamar & Maharajnagar during 4th Year.	Sanitation facilities to be provided to the village Jarka & Shimlon during 5 th Year.	150
		Budget in Lakhs	30	30	30	30	30	
iii) Sanitary Napkins Vending Machine in High Schools/ common facilities (10 nos @ 300000 per Facility)	Physical Nos. & village	Machines will be installed in schools / common facilities of village Lachhmanpur, Siulibari during 1st Year.	Machines will be installed in schools / common facilities of village Digardhi & Shikratyar during 2 nd Year.	Machines will be installed in schools / common facilities of village Senera & Talshankra during 3rd Year.	Machines will be installed in schools / common facilities of village Jarukhamar & Maharajnagar during 4th Year.	Machines will be installed in schools / common facilities of village Jarka & Shimlon during 5th Year.	30	
	Budget in Lakhs	6	6	6	6	6		
iv) Drainage Network for Domestic sewage in	Physical Nos. & village	During 1st Year drainage network to be made/	During 2nd Year drainage network to	During 3rd Year drainage network to	During 4th Year drainage network to be made/	During 5th Year drainage network to	280	

S. No.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
	Villages		strengthen in 2 nos of village i.e Lachhmanpur & Siulibari.	be made/ strengthen in 2 nos of village i.e village Digardhi & Shikratyar.	be made/ strengthen in 2 nos of village i.e Senera & Talshankra.	strengthen in 2 nos of village i.e Jarukhamar & Maharajnagar	be made/ strengthen in 2 nos of village i.e Jarka & Shimlon.	
		Budget in Lakhs	150	50	30	30	20	
	v) RWH pits in the surrounding villages & Desiltation of ponds	Physical Nos. & village	2 nos of RWH pits to be made in Shikratyar & Siulibari and available ponds to be desilted.	2 nos of RWH pits to be made in Senera & Talshankra and Ponds to be desilted in Senera, Talshankra, Jarukhamar & Maharajnagar.	One no of RWH pits to be made in Jarka, & Shimlon	Desiltation of Settling Pits/ponds	Desiltation of Settling Pits/ponds	330
		Budget in Lakhs	40	100	40	100	50	
	YEAR WISE EXPENDITURE		426	386	306	366	306	1790
B). Based on Public Hearing								
1	Regarding Control measures for abatement of Air Pollution due to the proposed project	Physical Nos. & village	The physical Target for the entire activities shall be achieved in 3 years					NA
		Budget in Lakhs	Included in the EMP Cost					
2	Development work in local schools, provision of study material & scholarships to be provided to meritorius students	Physical Nos. & village	Schools of Lachhmanpur & Siulibari will be facilitated during 1st Year.	Schools of Digardhi & Shikratyar will be facilitated during 2nd Year.	Schools of Senera & Talshankra will be facilitated during 3rd Year.	Schools of Jarukhamar & Maharajnagar will be facilitated during 4th Year.	Schools of Jarka & Shimlon will be facilitated during 5th Year.	270
		Budget in Lakhs	80	60	50	40	40	
3	Construction of Primary Health Center	Physical Nos. & village	5 bedded Primary Health Center assisted by qualified Doctor and requisite para medical staffs for preliminary treatment of villagers and employees.					800
		Budget in Lakhs	200	200	150	150	100	
4	Restoration of closed schools	Physical No. & Village	Restoration of closed school of Digardhi and other villages to impart better education to school children.					250

S. No.	MAJOR ACTIVITY HEADS	YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)	
		1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year		
		(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)		
		Budget in Lakhs	100	50	50	25	25	
5	Construction of alternative water bodies & grazing field for animals	Physical No. & Village	Construction of alternative water bodies and grazing grounds for animals in near by villages					400
		Budget in Lakhs	100	100	100	50	50	
6	Repair and maintenance of existing village roads.	Physical No. & Village	In Lachhmanpur & Siulibari villages	In Digardhi & Shikratyar villages	in Senera & Talshankra villages	in Jarukhamar & Maharaj Nagar villages	in Jarka & Shimlon in vilages.	450
		Budget in Lakhs	100	200	50	50	50	
7	Greenbelt development As avenue and block plantation in villages	Physical No. & Village	4 Kms of avenue plantation / 2000 Sqm of block plantation to be developed & maintained for 3 years in village Lachhmanpur, & Siulibari during 1st Year.	4 Kms of avenue plantation / 2000 Sqm of block plantation to be developed & maintained for 3 years in village Digardhi & Shikratyar 2nd Year.	4 Kms of avenue plantation / 2000 Sqm of block plantation to be developed & maintained for 3 years in village Senera & Talshankra during 3rd Year.	4 Kms of avenue plantation / 2000 Sqm of block plantation to be developed & maintained for 3 years in village Jarukhamar & Maharaj Nagar during 4th Year.	4 Kms of avenue plantation /2000 Sqm of block plantation to be developed & maintained for 3 years in village Jarka & Shimlon during 5th Year.	550
		Budget in Lakhs	150	100	100	100	100	
8	Development of local village roads	Physical No. & Village	In Lachhmanpur & Siulibari villages	In Digardhi & Shikratyar villages	in Senera & Talshankra villages	in Jarukhamar & Maharaj Nagar villages	in Jarka & Shimlon in vilages.	500
		Budget in Lakhs	150	100	100	75	75	
	YEAR WISE EXPENDITURE		880	810	600	490	440	3220
	YEARWISE TOTAL EXPENDITURE		1,736	1,562	1,353	1,191	1068	6909

Signature Not Verified

Digitally signed by Dr. R. B. Lal
Scientist F

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