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File No: IA-J-11011/325/2010-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **28/09/2024**

To,

M/s. PRAKASH SPONGE IRON AND POWER PRIVATE LIMITED
Prakash Sponge Iron and Power Private Limited Heggere Village Challakere Taluk Chitradurga District , Heggere & Kaparahalli villages, CHITRADURGA, KARNATAKA, , 577522
E-mail: psip@ermgroup.in

Subject: **Expansion of Steel Plant from its current capacity of 0.2 MTPA to 1.0 MTPA finished Steel products – Establishment of new Iron Ore Beneficiation unit (16,10,000 TPA), New Iron ore Pellet Plant (14,00,000 TPA) New Coal Gasifier (30,000 Nm3/hr.), Expansion of sponge iron production through DRI Kilns from 90,000 TPA to 11,17,800 TPA, Expansion of Hot Billets / Slabs / production by installing 2 x 40T Induction Furnaces (Hot Metal: 3,31,200TPA) to enhance billet production from 1,29,600 TPA to 4,80,240 TPA and 1 x 40T Electric Arc Furnace (Hot Metal: 3,03,600TPA) to enhance total steel production from the current level of 0.2 MTPA to 1.0 MTPA along with LRF, establishment of Vacuum Degassing unit 3,20,160 TPA, De-phos converter - 1,51,200 TPA, Rolling Mills - Long Products [(Expansion of TMT bars production from 1,00,000 TPA to 2,20,000 TPA), New Wire Rod Mill 3,60,000 TPA & New Wire Products Unit 42,000 TPA)], Rolling Mills -Flat Products (New Strip Mill (3,20,160 TPA), New GC/GA Unit (30,000 TPA), New Saw Pipes unit (1,80,000 TPA) & New Cold Rolled Products (30,000 TPA), and sale excess strips (80,000TPA)], Expansion of WHRB based Power Plant from 7.1 MW to 73.1 MW, New FBC based Power Plant of 37.0 MW, New 2 x 11 MVA Submerged Electric Arc Furnaces to produce Ferro Alloys (FeSi – 18,600 TPA / SiMn – 38,400 TPA / FeMn – 67,200 TPA / FeCr – 40,000 TPA), New Oxygen Plant(12,000 m3/day), New Briquetting Plant (244 kg/Hr), Brick Manufacturing Unit (10,000 bricks/day to 64,000 bricks/day) & Slag Granulation Unit (25 TPH) by M/s Prakash Sponge Iron & Power Pvt. Ltd., located at Villages: Heggere & Kaparahalli, Taluk : Challakere District: Chitradurga, Karnataka- Consideration of Environmental Clearance. - Reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND1/449899/2023 dated 28/02/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1001KA5482181N
(ii) File No.	IA-J-11011/325/2010-IA-II(IND-I)

(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous),2(b) Mineral beneficiation
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Expansion of Steel Plant from its current capacity of 0.2 MTPA to 1.0 MTPA finished Steel products – Establishment of new Iron Ore Beneficiation unit (16,10,000 TPA), New Iron ore Pellet Plant (14,00,000 TPA) New Coal Gasifier (30,000 Nm3/hr.), Expansion of sponge iron production through DRI Kilns from 90,000 TPA to 11,17,800 TPA, Expansion of Hot Billets / Slabs / production by installing 2 x 40T Induction Furnaces (Hot Metal: 3,31,200TPA) to enhance billet production from 1,29,600 TPA to 4,80,
(viii) Name of Company/Organization	PRAKASH SPONGE IRON AND POWER PRIVATE LIMITED
(ix) Location of Project (District, State)	CHITRADURGA, KARNATAKA
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The proposed project activity is listed at S. No. 2(b) Mineral Beneficiation, 3(a) Metallurgical Industries (Ferrous and Non/ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

4. The instant Proposal was initially considered by the EAC in its 63rd meeting of the EAC for Industry-I sector held on 23rd – 25th July 2024 wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at https://parivesh.nic.in.

5. 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 at **Annexure-II.**

6. The Unit configuration and capacity of the proposed project is at **Annexure-III.**

Deliberations of EAC

7. The EAC, in its 63rd meeting held during 23 – 25th July, 2024, inter-alia, deliberated the following:

i. The instant proposal Expansion of Steel Plant from its current capacity of 0.2 MTPA to 1.0 MTPA finished Steel products – Establishment of new Iron Ore Beneficiation unit (16,10,000 TPA), New Iron ore Pellet Plant (14,00,000 TPA) New Coal Gasifier (30,000 Nm3/hr.), Expansion of sponge iron production through DRI Kilns from 90,000 TPA to 11,17,800 TPA, Expansion of Hot Billets / Slabs / production by installing 2 x 40T Induction Furnaces (Hot Metal: 3,31,200TPA) to enhance billet production from 1,29,600 TPA to 4,80,240 TPA and 1 x 40T Electric Arc Furnace (Hot Metal: 3,03,600TPA) to enhance total steel production from the current level of 0.2 MTPA to 1.0 MTPA along with LRF, establishment of Vacuum Degassing unit 3,20,160 TPA, De-phos converter - 1,51,200 TPA, Rolling Mills - Long Products [(Expansion of TMT bars production from 1,00,000 TPA to 2,20,000 TPA), New Wire Rod Mill 3,60,000 TPA & New Wire Products Unit 42,000 TPA)], Rolling Mills -Flat Products (New Strip Mill (3,20,160 TPA), New GC/GA Unit (30,000 TPA), New Saw Pipes unit (1,80,000 TPA) & New Cold Rolled Products (30,000 TPA), and sale excess strips (80,000TPA)], Expansion of WHRB based Power Plant from 7.1 MW to 73.1 MW, New FBC based Power Plant of 37.0 MW, New 2 x 11 MVA Submerged Electri Arc Furnaces to produce Ferro Alloys (FeSi – 18,600 TPA / SiMn –

38,400 TPA / FeMn – 67,200 TPA / FeCr – 40,000 TPA), New Oxygen Plant(12,000 m3/day), New Briquetting Plant (244 kg/Hr), Brick Manufacturing Unit (10,000 bricks/day to 64,000 bricks/day) & Slag Granulation Unit (25 TPH).

ii. Chronology of permissions obtained for the existing project are as follows:
· Obtained Environmental Clearance for Existing sponge iron plant of 100 TPD (30,000 TPA) from SEIAA, Karnataka vide letter no. SEIAA:22: IND:2009 dt. 8th January 2010.
· Obtained Consent for Establishment for 30,000 TPA Sponge Iron from Karnataka State Pollution Control Board (KSPCB) vide letter No. PCB/1562/SEO/MINES/CFE/2009-10 dated 1st April 2010.
· Obtained Environment Clearance for 1,80,000 TPA Sponge Iron, 2,96,200 TPA Induction Furnace, 1,50,000 TPA Bar & Rod Mill, 1,20,000 TPA Light Structural Mill, WHRB Power Plant (12 MW) and FBC Power Plant (33 MW) from the MoEF, New Delhi, vide F.No. J-11011/325/2010/ IA II (I) dated 22nd December 2011.
· Obtained Consent for Establishment for 1,80,000 TPA Sponge Iron, 2,96,200 TPA Induction Furnace, 1,50,000 TPA Bar & Rod Mill, 1,20,000 TPA Light Structural Mill, WHRB Power Plant (12 MW) and FBC Power Plant (33 MW) from the Karnataka State Pollution Control Board vide letter No.69/PCB/MIN/CFE/2011-12/908 dated 18th February 2012.
· Existing plant in operation is 3 x 100 TPD Sponge Iron, 1,29,600 TPA Induction Furnace, 1,00,000 TPA Bar & Rod Mill, 1,00,000 TPA Lights structural Mill with CTO issued by KSPCB vide order No. AW-325409 dt. 24th June 2021 and is valid till 30th June 2026.
· And CTO issued by KSPCB for WHRB Power Plant - 7.1 MW and Brick Manufacturing plant - 10,000 Bricks/day vide order no. AW-339219 dt. 29th August 2023 and is valid till 30th June 2026.
· Amendment in Environmental Clearance obtained for change in extent of land from 200 Acres to 168.225 Acres vide File no. IA-J-11011/325/2010-IA-II(I) dt. 02.07.2024.

iii. 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.

iv. 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.

v. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

vi. The total project area after expansion is 202.83 Ha. (501.05 Acres) [Existing Plant land - 68.11 Ha. (168.225 Acres) and Additional land – 134.72 Ha. (333.095 Acres)]. PP has reported that total land of 202.83 Ha. (501.05 Acres) is registered on the company name and is converted for Non-Agricultural purpose.
vii. Kaparahalli village is at 1.10 Kms. in NE Direction of project site along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the sensitive areas. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

viii. As reported, there are several water bodies within the study area of the project site. The EAC opined that 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.

ix. Total water requirement after the proposed expansion will be 16,484 KLD [Existing - 660 KLD, Additional - 15,824 KLD]. Existing water is sourced from ground water and Additional water is proposed to be sourced from Vedavathi River / Down Stream of Vani Vilas Sagar Dam: 12,824 KLD (81% of total), Karnataka Urban Water Supply and Drainage Board, Hiriyur: 2000 KLD (13% of total) and Karnataka Ground Water Authority: 1000 KLD (6% of total). The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard.

x. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.

xi. The Committee also deliberated on the public hearing issues along with action plan **(Annexure-IV)** submitted by the proponent to address the issues raised during the public hearing and is of the opinion that PP shall strictly implement a stringent plan to address all the issues raised by the stakeholders during the PH.

xii. The PP has submitted that greenbelt will be developed in 67.12 Ha land which is 33.09% of total project area. 2500 nos. of plants will be planted per Hectare as per CPCB norms. 33,211 nos. of plants are existing in the premises. PP propose to develop additional 1,34,589 nos. will be planted in 3 years' time.. The EAC deliberated on the greenbelt layout plan along with action plan and the budget earmarked and is of the opinion that greenbelt shall be completed within a period of 2 years.

xiii. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

xiv. The EAC deliberated on the CCR issued by IRO along with the ATR and review report of IRO and is of the opinion that PP shall strictly comply with the EC conditions as per the observations of IRO and submit the report to IRO.

xv. The EAC deliberated on the ADS reply of the project proponent and found it satisfactory.

xvi. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

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.

xix. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

xx. The PP has demonstrated through a brief video before the Committee regarding a waste recycling initiative of manufacturing 10000 bricks per day with Fly-ash and slag from DRI Kilns and Steel melting shop. It was told that this initiative has created employment to 75 local villagers. The 2nd Best practice initiative by the PP being the Robot cleaning system (six numbers) for the existing Roof Top 3.6MW and Ground Mount 3MW solar plant in order to increase the efficiency of solar panels and to avoid manual cleaning in view of the safety of person involved. The Committee has acknowledged these as Best Environmental practices by the PP and is of the opinion that similar initiatives need to be practised by other industries also.

Recommendation of EAC

8. The EAC (Industry-1 Sector), in its 63rd meeting held during 23rd – 25th July 2024, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Environment Clearance subject to stipulation of specific and general EC conditions as detailed in the point below.

Decision of MoEFCC

9. 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. Prakash Sponge Iron & Power Pvt. Ltd., under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**). The EMP measures are placed at **Annexure-V**.

10. 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.

11. 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.

12. 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.

13. 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.

14. This issues with approval of the competent authority.

(Dinesh Runiwal)
Scientist 'F'/Director
Tel: 011-20819346
E-mail: d.runiwal@gov.in

Copy To

1. The Secretary, Forest, Environment & Ecology Department, Karnataka Government Secretariat, Room No. 448, 4th Floor, Gate No. 2, M. S. Building, Bangalore-560001.
2. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore – 560034.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Chief Wildlife Warden, Karnataka Forest Department, Government of Karnataka. Aranya Bhawan, 2nd floor, 18th Cross, Maleshwaram, Bangalore-560003.
5. The Chairman, Karnataka State Pollution Control Board, Parisara Bhavana, No#49, Church Street , Bengaluru – 560001.
6. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
7. The Deputy Commissioner, Deputy Commissioner's Office, Chitradurga, Karnataka.
8. Guard File/Record File/Monitoring File.
9. MoEF&CC website.

(Dinesh Runiwal)
Scientist 'F'/Director

Annexure 1

Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))

1. Specific

S. No	EC Conditions
1.1	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
1.2	The project proponent 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.
1.3	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 concerned Regional Office of the MoEF&CC in this regard.
1.4	Kaparahalli village is at 1.10 Kms. in NE Direction of project site along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
1.5	As reported, there are several water bodies 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.
1.6	Total water requirement after the proposed expansion will be 16,484 KLD [Existing - 660 KLD, Additional - 15,824 KLD]. Existing water is sourced from ground water and Additional water is proposed to be sourced from Vedavathi River / Down Stream of Vani Vilas Sagar Dam: 12,824 KLD (81% of total), Karnataka Urban Water Supply and Drainage Board, Hiriyur: 2000 KLD (13% of total) and Karnataka Ground Water Authority: 1000 KLD (6% of total). PP shall obtain necessary permission from the Competent Authority in this regard.
1.7	Three tier Green Belt shall be developed in atleast 33% of the project area in a period of 2 years, 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 also 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 along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.8	The PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive will be other than Green belt development.
1.9	All the commitments made towards socio-economic development of the nearby villages 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 amounting to Rs. 25.90 Crores shall be strictly implemented and progress shall be submitted to the concerned

S. No	EC Conditions
	Regional Office of the MoEF&CC.
1.10	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
1.11	PP shall strictly comply with the partially/non complied EC conditions as per the observations of Regional Office and submit the report to concerned Regional Office of the MoEF&CC.
1.12	PP shall explore the possibility of brick manufacturing from slag.
1.13	CO sensors with alarm to be installed at strategic locations in the Plant.

Standard EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

1. Statutory Compliance

S. No	EC Conditions
1.1	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.
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) 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.
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	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

S. No	EC Conditions
	accredited laboratories.
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	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.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
2.9	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.
2.10	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.11	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.12	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.13	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.14	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.
2.15	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.16	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
2.17	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment

S. No	EC Conditions
	shall be installed.
2.18	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
2.19	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented
2.20	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m3, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
2.21	Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.
2.22	Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

3. Air Quality Monitoring And Preservation In Case Of Ferro Alloy Plants

S. No	EC Conditions
3.1	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
3.2	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
3.3	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
3.4	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m3 for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants. (in case of Silico Manganese and Ferro Silicon alloy steel)

4. Water Quality Monitoring And Preservation

S. No	EC Conditions
4.1	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 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

S. No	EC Conditions
	(Protection) Act, 1986 or NABL accredited laboratories.
4.2	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.
4.3	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.
4.4	Water meters shall be provided at the inlet to all unit processes in the plants.
4.5	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
4.6	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. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
4.7	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
4.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
4.9	Air Cooled condensers shall be used in the captive power plant.
4.10	Tailing management plan shall be implemented as included in EIA report.
4.11	Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.

5. Water Quality Monitoring And Preservation In Case Of Rolling Mills

S. No	EC Conditions
5.1	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time. (in case of rolling mills)

6. Noise Monitoring And Prevention

S. No	EC Conditions
6.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional

S. No	EC Conditions
	Officer of the Ministry as a part of six-monthly compliance report.
6.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
6.3	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

7. Energy Conservation Measures

S. No	EC Conditions
7.1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
7.2	Restrict Gas flaring to < 1%.
7.3	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;
7.4	Provide LED lights in their offices and residential areas.

8. Energy Conservation Measures In Case Of Reheating Furnace

S. No	EC Conditions
8.1	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
8.2	Practice hot charging of slabs and billets/blooms as far as possible.
8.3	Ensure installation of regenerative type burners on all reheating furnaces

9. Energy Conservation Measures In Case Of Dri Kilns (Sponge Iron)

S. No	EC Conditions
9.1	The project proponent shall provide waste heat recovery system on the DRI Kilns.
9.2	The dolochar generated shall be used for power generation.
9.3	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
9.4	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

10. Waste Management

S. No	EC Conditions
10.1	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.
10.2	Kitchen waste shall be composted or converted to biogas for further use.
10.3	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.
10.4	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.
10.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
10.6	Solid waste utilization: a. 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. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.

11. Waste Management In Case Of Sinter Plant

S. No	EC Conditions
11.1	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
11.2	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
11.3	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

12. Green Belt

S. No	EC Conditions
12.1	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.
12.2	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 capture, use and storage and 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 monitor able with defined time frames.
12.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

13. Public Hearing And Human Health Issues

S. No	EC Conditions
13.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
13.2	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.
13.3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
13.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

14. Environment Management

S. No	EC Conditions
14.1	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.
14.2	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.

S. No	EC Conditions
14.3	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.
14.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

15. Miscellaneous

S. No	EC Conditions
15.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
15.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
15.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
15.4	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.
15.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
15.6	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.
15.7	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.
15.8	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.
15.9	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.

S. No	EC Conditions
15.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
15.11	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.
15.12	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).
15.13	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.
15.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15.16	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.
15.17	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.

Additional EC Conditions

Not Applicable.

Details of the proposal are as per the EIA/EMP report

<table>
<tr><th>S.No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>1.</td><td>Total land</td><td>• Existing Plant land - 68.11 Ha. (168.225 Acres)
• Additional land – 134.72 Ha. (333.095 Acres)
• Total land after proposed expansion - 202.83 Ha. (501.05 Acres)
• Survey no. of Total 202.83 Ha. (501.05 Acres) of land are 42/1, 42/2, 42/3, 42/4, 42/5, 43/1, 43/2, 44/3, 39/3, 36/1, 43/3, 81/2, 80/1, 37, 35/10, 35/2, 35/6, 35/9, 38/2, 81/1, 35/7, 74/1, 82/3, 83/2, 35/8, 38/1, 74/6, 80/2, 82/1, 74/3, 62/9, 66/10, 66/11, 71/1, 76/4, 73/4, 62/4, 73/1, 96/2, 62/5, 62/6, 71/4, 76/8, 76/9, 64/1, 96/8, 61/5, 72/2, 72/4, 72/5, 72/3, 72/7, 72/8, 72/9, 61/3, 73/5, 96/1, 62/7, 83/5, 62/8, 76/1, 70/1A2, 70/6, 71/2, 76/10, 61/2, 64/2, 64/4, 76/7, 84/2, 74/4, 74/5, 83/3, 83/4, 83/6, 83/7, 83/8, 73/6, 95/6, 95/7, 73/7, 62/10, 73/2, 73/3, 73/8, 62/1, 71/5, 74/7, 74/8, 74/9, 74/3, 74/10, 72/1, 72/6, 76/3, 76/5, 70/1A1, 61/6, 63/4, 83/1, 38/1, 70/3, 70/4, 77/3, 77/9, 77/10, 77/11, 77/12, 65/1</td></tr>
<tr><td>2.</td><td>Land acquisition details as per MoEF&CC O.M. dated October 2014</td><td>Total land of 202.83 Ha. (501.05 Acres) is Registered on the company name and is converted for Non-Agricultural purpose.</td></tr>
<tr><td>3.</td><td>Existence of habitation & involvement of R&R, if any.</td><td>Project site: No habitation exists in the plant site.
Nearest habitation: Kaparahalli village at 1.10 Kms. in NE Direction.
R&R not applicable There are no habitations in the total land envisaged for the project. Hence, no rehabilitation and resettlement are involved.</td></tr>
<tr><td>4.</td><td>Latitude and Longitude of the project site</td><td>The Coordinates of the project site are following
<table>
<tr><th>Point No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1.</td><td>14°09'24.58" N</td><td>76°40'08.65" E</td></tr>
<tr><td>2.</td><td>14°09'18.86" N</td><td>76°40'42.98" E</td></tr>
<tr><td>3.</td><td>14°09'21.36" N</td><td>76°40'56.93" E</td></tr>
<tr><td>4.</td><td>14°09'20.29" N</td><td>76°41'14.81" E</td></tr>
<tr><td>5.</td><td>14°08'51.68" N</td><td>76°41'02.65" E</td></tr>
<tr><td>6.</td><td>14°09'06.34" N</td><td>76°40'48.35" E</td></tr>
<tr><td>7.</td><td>14°08'49.18" N</td><td>76°40'54.43" E</td></tr>
<tr><td>8.</td><td>14°08'37.02" N</td><td>76°40'55.86" E</td></tr>
<tr><td>9.</td><td>14°08'45.24" N</td><td>76°40'29.39" E</td></tr>
<tr><td>10.</td><td>14°08'45.24" N</td><td>76°40'09.72" E</td></tr>
<tr><td>11.</td><td>14°08'48.82" N</td><td>76°39'53.27" E</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S.No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>12.</td><td>14°09'06.34" N</td><td>76°39'45.40" E</td></tr>
<tr><td>13.</td><td>14°09'16.72" N</td><td>76°39'58.63" E</td></tr>
<tr><td>14.</td><td>14°09'12.42" N</td><td>76°40'15.08" E</td></tr>
</table>
</td></tr>
<tr><td>5.</td><td>Elevation of the project site</td><td>602 to 632 m above MSL</td></tr>
<tr><td>6.</td><td>Involvement of Forest Land, if any</td><td>Not applicable as no Forest land is involved in the project site.</td></tr>
<tr><td>7.</td><td>Water body exists within the project site as well as study area</td><td><u>Project Site</u>: Nil

<u>Study area:</u>
<table>
<tr><th>Water Body</th><th>Distance (Kms.)</th><th>Direction</th></tr>
<tr><td>Vedavathi River</td><td>9.5</td><td>SE</td></tr>
<tr><td>Garani Halli Nallah</td><td>6.3</td><td>NW</td></tr>
<tr><td>Sanikere Pond</td><td>3.0</td><td>NW</td></tr>
<tr><td>Ganjigunte Pond</td><td>6.0</td><td>NW</td></tr>
<tr><td>Kasipura Pond</td><td>8.0</td><td>W</td></tr>
<tr><td>Rangenahalli Pond</td><td>7.3</td><td>SE</td></tr>
<tr><td>Belagere Pond</td><td>6.7</td><td>E</td></tr>
</table>
</td></tr>
<tr><td>8.</td><td>Existence of ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve etc. if any within the study area</td><td>Nil</td></tr>
</table>

ANNEXURE-III

Unit configuration and capacity

S.No.	Units (Products)		Existing Operating Plant	Proposed Expansion	Total After Proposed Expansion
1.	Iron Ore beneficiation (Concentrated Iron Ore)		Nil	1 x 1.61 MTPA (9,50,000 TPA)	1 x 1.61 MTPA (9,50,000 TPA)
2.	Iron ore Pelletization Plant (Pellets)		Nil	2 x 0.7 MTPA (14,00,000 TPA)	2 x 0.7 MTPA (14,00,000 TPA)
3.	Coal Gasifier (Producer Gas)		Nil	30,000 Nm^3/Hr.	30,000 Nm^3/Hr.
4.	DRI Kilns (Sponge Iron)		90,000 TPA (3 x 100 TPD)	9,93,600 TPA (4 x 420 TPD, 2 x 600 TPD) & Increase in Production in existing DRI kilns from 90,000 TPA to **1,24,200** TPA due to usage of Pellets and imported coal considering 345 days of operation per annum.	11,17,800 TPA
5.	Induction Furnaces with LRF (12 T) & CCM OF Suitable capacity (Hot Billets / Billets / Ingots)		1,29,600 TPA (3 x 12 T) along with LRF of 12 T capacity	3,31,200 TPA (2 x 40 T) along with 2 X 40 T LRF (3,30,000 TPA) & Increase in Production of existing IF from 1,29,600 TPA to 1,49,040 TPA considering 345 days of operation	4,80,240 TPA
6.	Electric Arc Furnace (Billets/ Slabs) with VD, CCM and Slab caster		----	3,03,600 TPA (1 x 40 T)	3,03,600 TPA
7.	Dephosphorization Converter		---	1,51,200 TPA	1,51,200 TPA
8.	Vacuum Degassing		---	3,20,160 TPA	3,20,160 TPA
9.	Rolling Mills	TMT bars	1,00,000 TPA	1,20,000 TPA	6,80,000 TPA
		WRM	---	3,60,000 TPA	

S.No.	Units (Products)		Existing Operating Plant	Proposed Expansion	Total After Proposed Expansion
	(Long Product)			(Out of above 42,000 TPA will be Wire products)	
		Structural steel	1,00,000 TPA	---	
10.	Rolling Mills (Flat Product)	Strip Mill	---	3,20,000 TPA× (GC/GA – 30,000 TPA, Saw Pipes – 1,80,000 TPA, Cold Rolled Products – 30,000 TPA, Strips – 80,000 TPA)	3,20,000 TPA
11.	Ferro Alloys (FeSi / SiMn / FeMn / FeCr)		---	FeSi – 18,600 TPA / SiMn – 38,400 TPA / FeMn – 67,200 TPA / FeCr – 40,000 TPA (2 x 11 MVA)	FeSi – 18,600 TPA / SiMn – 38,400 TPA / FeMn – 67,200 TPA / FeCr – 40,000 TPA (2 x 11 MVA)
12.	Power Plant	WHRB	7.1 MW	66 MW	73.1 MW
		FBC	---	37 MW	37 MW
13.	Oxygen Plant / Storage		---	12,000 m^3/day	12,000 m^3/day
14.	Brick Manufacturing Unit & Slag Granulation unit		10,000 Bricks/day	54,000 Bricks/day	64,000 Bricks/day
15.	Briquetting Plant		---	244 kg/hr.	244 kg/hr.
Note: PP also propose to install Slag Granulation unit of 25 TPH capacity					

ANNEXURE-IV

Action plan as per MoEF&CC O.M. dated 30/09/2020

Cost of the total expansion project : Rs. 1727 Crores
1.5 % of expansion project cost for Social & Infrastructural Development : Rs. 25.90 Crores

S. NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	4th Year (Rs. in Lakhs)	5th Year (Rs. in Lakhs)	
A). Based on Need Based & SIA Study								
1	**Community & Infrastructure Development Programmes**							
	Providing LED Street lighting with solar panels to nearby villages	Physical Nos. & Village	Heggere (20 nos.) & Kaparahalli (20 nos.)	Kaparahalli (20 nos.) & Sanikere (20 nos.)	Gollahalli (20 nos.) & Jadekunte (20 nos.)	Hulikunte (20 nos.) & Kandikere (20 nos.)	Hottejjan Kapile (20 nos.) & Hosa Ramjogihalli (20 nos.)	45
		Budget in Lakhs	9	9	9	9	9	
	Development of Social and Cultural activity building	Physical Nos. & Village	1 no. in Challakere limit	---	1 no. in Heggere Village	---	---	350
		Budget in Lakhs	200	---	150	---	---	
	Providing and Maintenance of RO drinking water units in nearby villages	Physical Nos. & Village	Heggere (1 no.)	Kaparahalli (1 no.)	Jadekunta (1 no.)	Gollahalli (1 no.)	BL Gowda Nagara (1 no.)	50
		Budget in Lakhs	10	10	10	10	10	
	Deepening of ponds in nearby villages	Physical Nos. & Village	---	---	Kaparahalli Village Pond deepening by 1.5 m by desiltation	Heggere Village Pond deepening by 1.5 m by desiltation	Sanikere Village Pond deepening by 1.5 m by desiltation	42
		Budget in Lakhs	---	---	12	15	15	
	Providing Library facilities in nearby villages or Government Schools	Physical Nos. & Village	Govt. School in Heggere Village	Govt. High School in Kaparahalli Village	Govt. School in Jadekunte Village	Govt. School in Gollahalli Village	Govt. School in B L Gowda Nagara	100

S. NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	4th Year (Rs. in Lakhs)	5th Year (Rs. in Lakhs)	
		Budget in Lakhs	20	20	20	20	20	
2	**Education**							
	Construction of class rooms in Govt. Schools of size 10m x 7m x 3.5 m in nearby villages	Physical Nos. & Village	4 nos. Heggere Village	4 nos. Kaparahalli Village	4 nos. Sanikere Village	4 nos. Gollahalli Village	4 nos. Jadekunte Village	210
		Budget Rs. in Lakhs	40	40	40	40	45	
	Providing Sport Infrastructure and kits at govt schools in nearby villages	Physical Nos. & Village	5 nos. Heggere Village	5 nos. Kaparahalli Village	5 nos. Indira Nagara Village	5 nos. Gollahalli Village	5 nos. Hulikunte Village	43
		Budget Rs. in Lakhs	3	10	10	10	10	
	Construction of Toilet blocks at schools in nearby villages	Physical Nos. & Village	4 no. Sanikere Village	4 no. Jadekunte Village	4 no. Indira Nagara Village	4 no. Hottejjan Kapile Village	4 no. Heggere Village	100
		Budget Rs. in Lakhs	20	20	20	20	20	
	Providing Model Anganwadi Centre in consultation with state women and child development department	Physical Nos. & Village	1 no. Heggere Village	1 no. Jadekunte Village	1 no. Sanikere Village	1 no. Gollahalli Village	1 nos. Kaparahalli Village	50
		Budget Rs. in Lakhs	10	10	10	10	10	
	Supporting the Sports persons in the villages to participate in the competitions	Physical Nos. & Village	2 no. Heggere Village	2 no. Sanikere Village	2 no. Jadekunta Village	2 no. Kaparahalli Village	2 nos. Gollahalli Village	15
		Budget Rs. in Lakhs	3	3	3	3	3	
	Providing Smart classroom facility for e-learning at Government Schools in nearby villages	Physical Nos. & Village	2 nos. in Govt. School in Heggere Village	2 nos. in Govt. School in Kaparahalli Village	2 nos. in Govt. School in Hottejjan Kapile	2 nos. in Govt. School in Gollahalli Village	2 nos. in Govt. High School in Sanikere Village	100
		Budget in Lakhs	20	20	20	20	20	
	Providing Financial support for Skill development programme	Physical Nos. & Village	20 no. of people from Heggere Village	20 no. of people from Kaparahalli Village	20 no. of people from Jadekun	20 no. of people from Sanikere Village	20 no. of people from Gollahalli Village	50

S. NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	4th Year (Rs. in Lakhs)	5th Year (Rs. in Lakhs)	
					te Village			
		Budget in Lakhs	10	10	10	10	10	
	Providing a solid waste collection vehicle to the Grama Panchayat	Physical Nos. & Village	Sanikere Panchayath					30
		Budget in Lakhs	30					
	Providing sewing machines to women in the nearby villages in order to empower women	Physical Nos. & Village	50 nos. in Kaparahalli Village	50 nos. in Heggere Village	50 nos. in Sanikere Village	50 nos. in Kandenalli Golratti Village	50 nos. in Gollahalli Village	75
		Budget in Lakhs	15	15	15	15	15	
B). Based on Public Consultation/Hearing								
1	Impart training to the local villagers for skill development. a)" Skill Development Centre" along with necessary infrastructure for various vocational training program for employment generation in association with National Skill Development Mission (Automobile Repair, Welding, Electrical, Computer Hardware, Soft skills like computer programs etc.)	Physical Nos. & village	Skill Development centre in Sanikere Panchayath and Challakere Taluk limits					200
		Budget in Lakhs	40	40	40	40	40	
2	Providing Financial support to the youths to help them crack competitive exams like KCET, NEET, KAS, etc.	Physical Nos. & Village	20 nos. in Sanikere Village	20 nos. in Heggere Village	20 nos. in Kaparahalli Village	20 nos. in Gollahalli Village	20 nos. in Jadekunte Village	100
		Budget in Lakhs	20	20	20	20	20	

S. NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	4th Year (Rs. in Lakhs)	5th Year (Rs. in Lakhs)	
3	CC road construction in nearby villages	Physical Nos. & village	village road construction of 600 m length at Heggere Village	village road construction of 400 m length at Kaparahalli Village	village road construction of 500 m length at Sanikere Village	village road construction of 300 m length at Gollahalli Village	village road construction of 700 m length at Jadekunte Village	400
		Budget in Lakhs	96	64	80	48	112	
4	Construction / renovation of Primary Health Centre	Physical Nos. & Village	---		1 no .in Sanikere Panchayath	1 no. in Challlakere limit	---	120
		Budget in Lakhs	---		60	60	---	
5	Well-equipped ambulance will be handed over to PHC and will be made available to the local people to take care of Emergency health requirements of the surrounding villagers.	Physical Nos & Village.	--		--	1 no. PHC Sanikere	--	25
		Budget in Lakhs	--			25	--	
5	Providing free mobile health clinic facilities with full time medical staff, medicines, to local villagers of eight villages.	Physical Nos.	--	1 no. Heggere Village	1 no. Kaparahalli Village	1 no. Gollahalli Village	1 no. Sanikere Village	125
		Budget in Lakhs	--	50	25	25	25	
6	Additional School Teachers will be provided to the Govt. Schools to support existing Staff.	Physical Nos	2 nos. in Govt. School in Heggere Village	2 nos. in Govt. School in Kaparahalli Village	2 nos. in Govt. School in Jadekunte	2 nos. in Govt. School in Heggere Village	2 nos. in Govt. School in Kaparahalli Village	120
		Budget in Lakhs	8	16	24	32	40	
7	Plantation in nearby villages on either side of the roads, watering and maintenance.	Physical Nos. & village	Heggere (2000 nos.) & Kaparahalli	Indira nagar (2000 nos.) & Sanikere	Gollahalli (2000 nos.) &	B L gowda Nagar (2000 nos.) &	K. Golratti (2000 nos.) & Yaraballi (2000 nos.)	150

S. NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	4th Year (Rs. in Lakhs)	5th Year (Rs. in Lakhs)	
	(UNDER "EK PED MAA KE NAAM" CAMPAIGN)		(2000 nos.)	(2000 nos.)	Jadekunte (2000 nos.)	Hottajan Kapile (2000 nos.)		
		Budget in Lakhs	30	30	30	30	30	
8	Providing computers, ancillaries along with training to students of Heggere & Sanikere schools	Physical Nos. & village	Sanikere Panchayath Schools					90
		Budget in Lakhs	10	20	20	20	20	
	Grand Total (A+B)							**2590 Lakhs**

Recurring expenditures under CSR as per companies Act, 2014
Health checkup will be carried out periodically in surrounding villages i.e., Heggere, Kaparahalli, Sanikere, Gollahalli & Jadekunta @ Rs 5.0 Lakhs every year.

ANNEXURE-V

Budget for EMP

S.No.	Particulars	Capital Cost (Rs.in Crores)	Recurring Cost / Annum (Rs.in Crores)
1.	**Air Emission Management**		
	Electro Static Precipitators for Pellet, DRI Klins, FBC Power Plant (ESP)_	41.00	11.6
	Fume, Extraction system with PTFE Bag filters – (IF, EAF, SEAF)	17.50	0.6
	Other APCS & Conveyor systems	10.00	0.7
	Stacks	10.00	0.22
	Mechanical Dust Sweepers	1.00	0.05
	Water Sprinklers	0.50	0.05
2	**Wastewater Management**		
	ETP	1.50	0.1
	STP	0.80	0.16
	Garland drains	1.50	0.03
	Settling Ponds	0.10	0.01
3	**Solid waste Management**		
	Fly Ash Handling & disposal	7.00	0.6
	Slag Handling & disposal	1.00	0.05
	Hazardous waste storage & disposal	0.10	0.05
	Municipal solid waste storage & disposal	0.05	0.02
4	Greenbelt development	6.80	0.53
5	Noise Management	0.20	0.1
6	RWH in Project Premises along with drainage system	3.50	0.05
7	Fire Safety Systems	6.00	0.25
8	**Environmental Monitoring**		
	CEMS	1.40	0.01
	CAAQMS	1.20	---
	Environment Monitoring	---	0.13
	Performance monitoring of APCS	---	0.01
9	**Occupational Health & Safety**		
	Upgradation of existing Occupational Health Centre	0.50	0.08
	Personal Protective Equipment's (PPEs)	1.00	0.15
10	Brick manufacturing unit	8.50	0.01
		121.15	**15.56**