ENVIRONMENTAL CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environment Single-Window Hub)

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

To,

The GENERALMANAGER

BMM ISPAT LIMITED

no.101, 1st floor, pride elite, Museum Road,Bengaluru,Bangalore Urban,Karnataka-560001

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/KA/IND1/417501/2023 dated 05 Apr 2023. The particulars of the environmental clearance granted to the project are as below.

1.	**EC Identification No.**	**EC23A008KA171083**
2.	**File No.**	J-11011/236/2008-IA.II(IND-I)
3.	**Project Type**	Expansion
4.	**Category**	A
5.	**Project/Activity including Schedule No.**	3(a) Metallurgical industries (ferrous & non ferrous)
6.	**Name of Project**	Brownfield Expansion of Integrated Steel Plant from 0.96 MTPA to 2.1 MTPA
7.	**Name of Company/Organization**	BMM ISPAT LIMITED
8.	**Location of Project**	Karnataka
9.	**TOR Date**	N/A

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

Date: 20/07/2023

(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.

This is a computer generated cover page.

F. No. J-11011/236/2008-IA.II (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: 20th July, 2023

To,

M/s BMM Ispat Limited
No.101, 1st floor, pride elite, Museum Road
Bengaluru Urban – 560001, Karnataka
Email: bmmispat@bmm.in

Project: Expansion of Integrated Steel Plant from 0.96 MTPA to 2.1 MTPA by M/s. BMM Ispat Limited, located at Villages- Danapura, Danayakanakere, Nagalapura, Byalakundi and Garga, Tehsil - Hosapete, District–Vijayanagara (Earlier Ballari), Karnataka – Grant of Environmental Clearance regarding.

Sir,

This refers to your proposal no. IA/KA/IND1/417501/2023 dated 05.04.2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. Further, ADS reply submitted by the project proponent on 14.06.2023 for the project mentioned above.

2. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (ferrous & non-ferrous), 2(b) Cement Plants, 4(b) Coke Oven Plants and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

3. The instant Proposal was earlier considered in 26th meeting of the EAC for Industry-I sector held on 12th, 13th and 17th April, 2023 wherein the Committee deferred the proposal due to certain deficiencies. The instant proposal was further considered in the **32nd EAC Meeting held during 26th & 29th May, 2023 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

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	05.11.2021
b.	Period of baseline data collection	Dec 2021 to Feb 2022
c.	Date of Public Consultation	15th September, 2022

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details submitted by PP</th></tr>
<tr><td>d.</td><td>Action plan to address the PH issues</td><td>Amounts of Rs 80 Cr have been earmarked to address the issues raised during public hearing. Detail of activities proposed attached as Annexure 1.</td></tr>
<tr><td>e.</td><td>Location of the project</td><td>Villages- Danapura, Danayakanakere, Nagalapura, Byalakundi and Garga, Tehsil - Hosapete, District–Vijayanagara (Earlier Ballari), Karnataka</td></tr>
<tr><td>f.</td><td>Latitude and Longitude of the project site</td><td>
<table>
<tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>A</td><td>15°10’20.69” N</td><td>76°21’30.32” E</td></tr>
<tr><td>B</td><td>15°10’56.18” N</td><td>76°23’31.95” E</td></tr>
<tr><td>C</td><td>15°10’15.30” N</td><td>76°24’00.29” E</td></tr>
<tr><td>D</td><td>15°09’25.83” N</td><td>76°22’01.02” E</td></tr>
<tr><td>E</td><td>15°08’29.79” N</td><td>76°23’18.20” E</td></tr>
<tr><td>F</td><td>15°07’09.02” N</td><td>76°25’12.65” E</td></tr>
<tr><td>G</td><td>15°05’12.01” N</td><td>76°26’58.23” E</td></tr>
</table>
</td></tr>
<tr><td>g.</td><td>Total land</td><td>1413.66 ha [Private: 1413.66 ha].</td></tr>
<tr><td>h.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014</td><td>Complete land allotted by KIADB.</td></tr>
<tr><td>i.</td><td>Existence of habitation & involvement of R&R, if any</td><td>No R&R involved in the Project.

Nearest Habitation:
Nagalapura – 0.5 km, SE
Hanumanahalli – 0.6, N
Mariyammanahalli – 0.5 km, W
Danapura – 1.60 km, N</td></tr>
<tr><td>j.</td><td>Elevation of the project site</td><td>506-585 m above mean sea level</td></tr>
<tr><td>k.</td><td>Involvement of Forest land if any.</td><td>No Forest Land is involved.</td></tr>
<tr><td>l.</td><td>Water body exists within the project site as well as study area</td><td><u>Project site:</u>
No water bodies within the Project site.
Study area
<table>
<tr><th>Water body</th><th>Distance</th><th>Direction</th></tr>
<tr><td>Danayanakankere Lake</td><td>Adjacent</td><td>SE</td></tr>
<tr><td>Gunda Pond</td><td>0.2 km</td><td>ESE</td></tr>
<tr><td>Nagalapura pond</td><td>0.4 km</td><td>SE</td></tr>
<tr><td>Garga pond</td><td>4.2 km</td><td>SSE</td></tr>
<tr><td>Devalapura pond</td><td>3.5 km</td><td>SW</td></tr>
<tr><td>Nandibanda Pond</td><td>2.8 km</td><td>W</td></tr>
<tr><td>Tungabadra Dam(Backwater)</td><td>2.9 km</td><td>NNW</td></tr>
<tr><td>Tungabadra River (US)</td><td>3.6 km</td><td>N</td></tr>
<tr><td>Tungabadra Canal</td><td>8.1 km</td><td>N</td></tr>
</table>
</td></tr>
</table>

S. No.	Particulars	Details submitted by PP
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil
n.	Project cost	The existing capital cost of project was about Rs. 6000 Crores. The capital cost of the proposed project is Rs. 10,995 Crores.
o.	EMP cost	The capital cost for environmental protection measures is Rs. 636 Crores and annual recurring cost towards the environmental protection measures is proposed as Rs.60 Crores.
p.	Employment opportunity	The employment generation from the proposed project / expansion is 12,100 No's (Direct and Indirect).
q.	Water and Power requirement	Existing Water requirement is 21783.6 m^3/day which is obtained from Water Resource Dept (WRD), Govt. of Karnataka and permission for the same has been obtained from vides letter no. IN-KA25186204877203P dated 31.10.2017. The water requirement for the proposed project is estimated as 22761 m^3/day, out of which 19927 m^3/day of fresh water requirement will be obtained from the downstream of Tungabhadra River and the remaining requirement of 2,834 m^3/day will be met from the recycling water. Existing power requirement of 55 MW is obtained from captive power plant. The power requirement for the proposed project is estimated as 345 MW obtained from captive power plant.

Unit configuration and capacity:

Sr. No	Items	Unit	Existing Facilities	Proposed Facilities	Overall Plant Capacity after Expansion
1	Iron ore Beneficiation plant ##	MTPA	2.60	2.10	4.70
2	Palletizing Plant	MTPA	2.4	-	2.40
3	DRI Plant	MTPA	0.76	-	0.76
4	EAF & BOF Steel making	MTPA	1.10	1.20	2.30
5	Rolling mills: M.S Rolling Hot strip mill Structure's /wire rods	 MTPA MTPA MTPA	 0.108 -- 0.85	 - 1.15 -	2.1
6	Oxygen Plant	TPD	1x500	1x1000	1500
7	Power Plant	MW	235	110 (25+60+25)	345
8	Continuous casting machines: Slab Caster Billet Caster	 MTPA MTPA	 -- 1.20	 1.20 -	 1.20 1.20
9	Blast furnace	MTPA	--	1.70	1.70

10	Coke Oven	MTPA	--	0.80	0.80
11	Sinter Plant	MTPA	--	2.50	2.50
12	Calcining	TPD	--	850	850
13	Cement Plant	MTPA	--	1.40	1.40
Note: ##Tailing Recovery Plant (100 TPH)					

5. The EAC, in its meeting held during 26th & 29th May, 2023, inter-alia, deliberated the following:

i. The instant proposal is for expansion of Integrated Steel Plant from 0.96 MTPA to 2.1 MTPA and captive power plant from 235 MW to 345 MW and 1.4 MTPA cement plant.

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. The existing project was initially granted EC from Government of Karnataka vide letters dated 06.08.2005, 12.12.2005 and 24.01.2008. The project was then accorded environmental clearance under the provisions of EIA Notification, 2006 from MoEF&CC vide letter no. J-11011/236/2008-IA-II(I) dated 18.05.2010 for Integrated Steel Plant (2.0MTPA), Cement Plant (1.4 MTPA) and Captive Power Plant (230 MW) which was was valid for 5 years i.e. up to 17th May, 2015. As per the provisions of amendment in EIA notification vide SO 1141 (E), dated 29th April, 2015, the validity of EC became 7 years i.e. up to 17th May, 2017. PP obtained extension of validity of EC vide letter dated 17.05.2017 (upto 17.05.2020). Further, amendment to EC was obtained vide letter dated 09.07.2018 w.r.t. Corrigendum of EC extension letter and amendment w.r.t. specific condition pertaining to tailings management. Latest Consent to Operate for the existing unit was accorded by Karnataka Pollution Control Board vide lr. No. Consent for Operation for Stage - I & Stage - II vide letter no: AW-332720 dated 08.08.2022. The validity of CTO is upto 30.06.2027.

vi. The EAC noted that there are number of litigations against the project. The EAC deliberated on the submitted status of each of the cases. Also, EAC took into account that the affidavit submitted by BMM Ispat Limited stating that they will abide by the outcome of the litigations pending against the Project as per the verdict of the Honorable Court is submitted.

vii. The total project area is 1413.66 ha which allotted by KIADB. The land is an industrial land and is under the possession of the company.

viii. Nagalapura – 0.5 km, SE Hanumanahalli – 0.6, N Mariyammanahalli – 0.5 km, W Danapura – 1.60 km, N exists near the project site within study area. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.

ix. Danayanakankere Lake is adjacent to the project site in the SE direction. Also, Gunda Pond (0.2 km, ESE), Nagalapura pond (0.4 km, SE), Garga pond (4.2 km, SSE), Devalapura pond (3.5 km, SW), Nandibanda Pond (2.8 km, W), Tungabadra Dam(Backwater) (2.9 km, NNW) and Tungabadra River (US) (3.6 km, N) falls within the study area of the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.

x. Existing Water requirement is 21783.6 m^3/day which is obtained from Water Resource Dept (WRD), Govt. of Karnataka and permission for the same has been obtained from vides letter no. IN-KA25186204877203P dated 31.10.2017. The water requirement for the proposed project is estimated as 22761 m^3/day, out of which 19927 m^3/day of fresh water requirement will be obtained from the downstream of Tungabhadra River and the remaining requirement of 2,834 m^3/day will be met from the recycling water. The EAC deliberated on the water balance diagram and found it satisfactory.

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

xii. *Pavo cristatus* (the Indian Peacock or Indian Peafowl), *Psittacula eupatria* (Alexandrine Parakeet), *Manis crassicaudata* (Indian Pangolin), *Melursus ursinus* (Sloth bear/ Bhalu rich), *Panthera pardus* (Leopard) are the Schedule I species found in the study area. BMM has prepared the management plan with the budget of Rs. 700 Lakhs for the conservation of wildlife in the study area and was approved by the PCCF, Bangalore.

xiii. The EAC noted that the existing green belt has been developed in 362 ha area which is about 37.1% of the total project area of 975.56 ha (for existing) with total sapling of around 370000 Trees. Proposed greenbelt will be developed in 104.5 ha which is about 33 % of the total project area of 438.1 Ha for proposed area. Thus total of 466.5 ha area (33.% of total project area) will be developed as greenbelt. Total no. of 261250 saplings will be planted and nurtured in 104.5 hectares in 3 years i.e. June 2023 to May 2026 within the existing plant premises and proposed plant facility area. The Committee deliberated on the revised action plan and budget allocation for green belt development and found it satisfactory.

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

xv. The EAC deliberated on the PH issues raised during the earlier EC along with the submitted Certified Audit Certificate from Chartered Accountant w.r.t. expenditure incurred for various social welfare activities to enhance the livelihood of the local villagers and found it satisfactory.

xvi. 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.

xvii. The EAC also deliberated on the certified compliance report of earlier EC and its action plan and found it satisfactory.

xviii. The EAC also deliberated on the other ADS information furnished by the project proponent and found it satisfactory.

xix. The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.

xx. 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.

xxi. 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.

xxii. 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.

6. The EAC (Industry-1 Sector), in its 32nd meeting held on May 26 & 29, 2023, 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 conditions as detailed in the point below.

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 BMM Ispat Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. <u>Specific Condition:</u>

i. **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 applicable to this project.**

ii. 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.

iii. 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.

iv. Nagalapura – 0.5 km, SE Hanumanahalli – 0.6, N Mariyammanahalli – 0.5 km, W Danapura – 1.60 km, N exists near the project site within study area. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include this location in its environmental monitoring programme.

v. Danayanakankere Lake is adjacement to the project site in the SE direction. Also, Gunda Pond (0.2 km, ESE), Nagalapura pond (0.4 km, SE), Garga pond (4.2 km, SSE), Devalapura pond (3.5 km, SW), Nandibanda Pond (2.8 km, W), Tungabadra Dam(Backwater) (2.9 km, NNW) and Tungabadra River (US) (3.6 km, N) falls 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.

vi. The total water requirement of 22761 m^3/day, shall be met from the downstream of Tungabhadra River (19927 m^3/day) and recycled water (2,834 m^3/day) after obtaining necessary permission from the Competent Authority. No ground water shall be abstracted.

vii. Three tier Green Belt shall be developed in at least 33% of the project area in a stipulated time period being maximum plantation 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 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 Nagalapura, Hanumanahalli, Mariyammanahalli, and Danapura Village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

viii. 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. 80 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

ix. As committed PP shall adopt five villages namely Gunda village & Thanda, Gunda Station, Hanumanahalli, Danapur and Garaga and prepare and implement a robust plan to develop them into model villages in next 10 years.

x. The recommendations of the approved Site-Specific Wildlife Management Plan 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.

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 (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.

ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 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.

iii. 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.

iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.

v. 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.

vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.

viii. 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.

ix. 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.

x. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.

xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

xii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

xiii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.

xiv. 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.

xv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.

xvi. 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.

xvii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.

xviii. 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.

xix. Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke

xx. 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). Land-based APC system shall be installed to control coke pushing emissions.

xxi. Monitor CO, HC and O_2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.

xxii. 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.

xxiii. The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.

xxiv. Provide Low NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx emissions.

xxv. The emission norms applicable for the cement plant shall be adhered to.

xxvi. Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.

xxvii. DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm^3 by using best available technology.

xxviii. Petcoke dosing shall be controlled automatically to control SO_2 emission from chimney within the prescribed limits.

xxix. PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.

xxx. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.

xxxi. 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.

xxxii. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m^3, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

xxxiii. Basic Oxygen Furnace (BOF) gas shall be cleaned dry.

xxxiv. 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.

xxxv. Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

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 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. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

iv. Water meters shall be provided at the inlet to all unit processes in the plants.

v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.

vi. 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.

vii. 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.

viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

ix. 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.

x. The project proponent shall provide appropriate ETP for effluents discharged from coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to Coke oven plants) as amended from time to time.

xi. Treated water from ETP of COBP shall not be used for coke quenching.

xii. Air Cooled condensers shall be used in the captive power plant.

xiii. Tailing management plan shall be implemented as included in EIA report.

xiv. Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.

IV. Noise monitoring and prevention

i. 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 Officer of the Ministry as a part of six-monthly compliance report.

ii. 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.

iii. 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.

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. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.

vi. Practice hot charging of slabs and billets/blooms as far as possible.

vii. Ensure installation of regenerative type burners on all reheating furnaces.

viii. Blast Furnaces 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.

ix. Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.

x. The project proponent shall provide waste heat recovery system on the DRI Kilns.

xi. The dolochar generated shall be used for power generation.

xii. 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.

xiii. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

xiv. The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.

xv. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.

xvi. Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.

xvii. Waste heat recovery system shall be provided for kiln and cooler.

VI. Waste management

i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.

ii. Kitchen waste shall be composted or converted to biogas for further use.

iii. 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.

iv. 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.

v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

vi. 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.

vii. 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.

viii. Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.

ix. Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

x. In case of Non-Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery.

xi. Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).

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 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.

iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

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. 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.

iv. 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.

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.

iv. 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.

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. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented

vi. 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.

vii. 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.

viii. 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.

ix. 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.

x. 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.

xi. 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.

xii. 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).

xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

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. Secretary, Forest, Ecology & Environment Department, Government of Karnataka, Secretariat, Bangalore-560 001.
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. Chief Conservator of Forests, Forest, Ecology & Environment Department, Government of Karnataka, Secretariat, Bangalore-560 001.
4. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore – 560034
5. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
6. Member Secretary, Karnataka State Pollution Control Board, No. 25, 6– 9th Floor, Public Utility Building, M.G. Road, Bangalore – 560 001.
7. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-ll0001.

8. The District Collector, Vijayanagara, Karnataka.
9. Guard File/Record File/Monitoring File/ MoEF&CC Website

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

Annexure – 1

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

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. In lacs)
		1st Year		2nd Year		3rd Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
Health Related	Primary Medical Facilities through Mobile Van	7 Villages / Danaura, Hanumanahalli, Gunda, Gunda Thanda Garga, Nagalapura and Galemnagudi	84	8 Villages / Garga, New Graga Byalakundi, Nagalapura, Nagalapura Thanda, Gunda Village, Gunda Thanada and Gollarahalli	96	7 Villages / Danaura, Hanumanahalli, Gunda, Gunda Thanda Garga, Nagalapura and Galemnagudi	84	**264**
	Organising Medical camps for specialised diseases	8 Villages / Danapura Village, Hamppinakatte, Venkatapura Ayyanahalli, New Ayyanahalli, Vyasanakere, Galemmanagudi, Hanumanahalli	60	8 Villages / Garga, New Graga, Byalakundi, Nagalapura, NagalapuraThanda, Gunda Village, Gunda Thanada and Gollarahalli	60	8 Villages / Garga, New Graga, Byalakundi, Nagalapura, Nagalapura Thanda, Gunda Village, Gunda Thanada and Gollarahalli	60	**180**
	Infrastructure Improvement in Health Sub-Centers	6 Villages / Danapura, Hanumanahalli, G Naglapura, Mariyamnahalli A and B and DN Kere	30	6 Villages / Danapura, Hanumanahalli, G Naglapura, Mariyamnahalli A and B and DN Kere	30	4 Villages / Danapura, Hanumanahalli, G Naglapura and Mariyamnahalli	20	**80**
	Development of facilities at CHC	2 Villages / Mariyamnahalli and Hanumanhalli	30	2 Villages / Mariyamnahalli and Hanumanhalli	30	2 Villages / Mariyamnahalli and Hanumanhalli	15	**75**
Education Related	Construction of Classrooms in Govt. Schools of nearby area (4 Classrooms in each school)	3 Villages / Mariyammanahalli, Hanumanhalli and Danapura	88	3 Villages / New Garga, G Naglapura and Gunda Thanda	80	4 Villages / Old Garga, Devalapura, Galemnagudi and Ayanahalli	108	**276**
	Ensuring proper Sanitation Facilities at School by building Toilet units for students	4 Villages / DN Kere, Golarahali Ngalapura and Garga	40	3 Villages / Ayanahalli, Danapura and Hanumanhali	30	4 Villages / Devalapura, Nandi Bandey, Belkindi and Ngalapura Thanda	40	**110**
	Developing Smart Classrooms in the Govt. Schools to promote digital	3 Villages / Danapura, Hanumanahalli and DN kere	45	4 Villages / Garga, Gunda, Ayanahali and Mariyamnahalli	60	4 Villages / Gollarahalli, Devalapura, Hampinakattey	60	**165**

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. In lacs)
		1st Year		2nd Year		3rd Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	learning					and MM Hali Thanda		
	Boundary wall construction of Govt. Schools	3 Villages / Hanumanahalli, Mariyamnahali and Ayanahalli	36	3 Villages / Bailkundi Nagalapura and Garga	36	2 Villages / Gollrahalli and DN Kere	24	**96**
	Renovation & Repairing of Govt. School Buildings	4 Villages / Danapura, Hanumanahalli, Galemnagudi and Ayanahalli	80	4 Villages / Devalapura, Naglapura Garaga Belkundi and Vesinkere	80	4 Villages / Mariyamnhalli Town, Mariyamnhalli Thanda, Devlapura and Nandibandi	80	**240**
	Providing basic amenities like Furniture, Boards, water coolers etc.	6 Villages / Danapura 1 and 2, Hanumanahalli, Devlapura, Old Ayanahalli and Gunda Thanda	30	5 Villages / Gollharahali, Nandi Bandi, Gund Village, New Graga and Byalakundi	25	3 Villages / Hampinakatti Venkatapura and Vyasinkere	15	**70**
	Plantation Works in Govt. School Premises	All Government Schools	50	All Government Schools	50	All Government Schools	50	**150**
Environment Related	Installation of Solar Street Lights for better illumination in the villages	9 Villages / Danapura, Hamppinakatte, Venkatapura, Ayyanahalli, New Ayyanahalli, Vyasanakere, Galemmanagudi, Hanumanahalli and Gunda Station	225	8 Villages / Garga, New Graga, Byalakundi, Nagalapura, Nagalapura Thanda, Gunda Village, Gunda Thanada and Gollarahalli	200	5 Villages / Dananayakankere, Devlapura, Nandibandi, Indiranagar, Mariyamnhalli Town and Mariyamnhalli Thanda	125	**550**
	Plantation drives with Treeguards	All Core and buffer villages	100	All Core and buffer villages	100	All Core and buffer villages	100	**300**
	Plantation in forest area	Study area in consultation with DFO	100	Study area in consultation with DFO	100	Study area in consultation with DFO	100	**300**
	Construction of 10 No's of artificial water bodies (100x100x2) adjacent forest patches	3 No's in study area in consultation with DFO	80	3 No's in study area in consultation with DFO	80	4 No's in study area in consultation with DFO	80	**240**
	Development of Garden/Parks in the villages	5 Villages / Ayyanahalli, New Ayyanahalli, Vyasanakere, Dananayakankere and Mariyamnhalli Town	50	4 Villages / Devlapura, Mariyamnhalli Thanda, Nandibandi and Indiranagar	40	6 Villages / Garga, New Graga Nagalapura, Gunda, Gunda Thanada and Gollarahalli	60	**150**
Water related	Desilting of existing ponds etc. in the nearby	4 Villages / Venkatapura, Ayyanahalli, New	60	5 Villages / Garga, New Graga,	75	3 Villages / Dananayakankere, Devlapura and	45	**180**

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. In lacs)
		1st Year		2nd Year		3rd Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	villages	Ayyanahalli and Vyasanakere		Byalakundi, Nagalapura and Nagalapura Thanda		Nandibandi		
	Drinking water arrangements for Cattle & Bird by developing troughs	4 Villages / Venkatapura, Ayyanahalli, New Ayyanahalli and Vyasanakere	240	5 Villages / Garga, New Graga, Byalakundi, Nagalapura and Nagalapura Thanda	300	3 Villages / Dananayakankere, Devlapura and Nandibandi	180	**720**
	Developing/repairing of water infrastructures in the villages	4 Villages / Mariyamnhalli Thanda, Dananayakankere, Devlapura and Nandibandi	40	4 Villages / Gollarahalli, Gunda Thanada, Gunda and Nagalapura Thanda	40	6 Villages / Danapura, Hamppinakatte, Venkatapura, Ayyanahalli, New Ayyanahalli and Vyasanakere	60	**140**
	Providing support for Construction of Rain Water Harvesting Structures (4 RWH pits in each village)	6 Villages / Dananayakankere, Devlapura, Nandibandi, Garga, New Graga and Byalakundi	90	5 Villages / Gunda, Gunda Thanada, Gollarahalli, Vyasanakere and Gunda Station	80	5 Villages / Venkatapura, Ayyanahalli, New Ayyanahalli, Nagalapura and Nagalapura Thanda	75	**245**
Infrastructure Related	Construction of CC Roads	5 Villages / Danapura, Hanumanahalli, Galemmanagudi, Ayyanahalli and Garga	500	5 Villages / Mariyamnhalli Town, Nagalapura Thanda, Gunda Village, Gunda Thanada and Gollarahalli	500	7 Villages / Dananayakankere, Devlapura, Nandibandi, Indiranagar, Garga, New Graga and Byalakundi	700	**1700**
	Construction of Community Centers for Local community event, SHG meeting, organising functions etc.	Total 4 Community Halls at 4 Villages / Indiranagar, Danapura, Hanumanhalli and Gunda Village	40	Total 4 Community Halls at 4 villages / Mariyamnahalli, Devlapura, Gollarahalli and Garga	40	Total 4 Community Halls at 4 villages / Naglapura, Ayanhali, Venktapura and Hampinakattey	40	**120**
	Construction of Bus Stops (2 @ each village)	4 Villages / Danapura, Hanumanhali, Mariyamnhalli and Hosapete	24	8 Villages / Garga, New Graga, Byalakundi, Nagalapura, Nagalapura Thanda, Gunda, Gunda Thanada and Gollarahalli	48	6 Villages / Dananayakankere, Devlapura, Nandibandi, Indiranagar, Mariyamnhalli Town and Mariyamnhalli Thanda	36	**108**
	Development at existing Cremation Ground with	2 Villages / Hanumanhalli and Mariyamnahalli	20	7 Villages / Venkatapura, Ayyanahalli, New	70	8 Villages / Garga, New Graga,	70	**160**

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. In lacs)
		1st Year		2nd Year		3rd Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	boundary walls, water storage facility, covered sheds etc			Ayyanahalli, Vyasanakere, Galemmanagudi, Hanumanahalli and Gunda Station		Byalakundi, Nagalapura, Nagalapura Thanda, Gunda, Gunda Thanada and Gollarahalli		
	Construction of CC road side drains in the villages	7 Villages / Mariyammanahalli, Danapura, Nagalapura, Danayakanakere, Byalakundi, Gunda and Garaga	84	3 Villages / Dananayakankere, Devlapura and Nandibandi	36	2 Villages / Mariyamnhalli Town and Mariyamnhalli Thanda	24	**144**
	Installation of Speed Breakers to ensure road safety	All Core villages	5	All buffer villages	5	All buffer villages	5	**15**
	Construction of Drinking Water RO Facility	7 Villages / Mariyammanahalli, Danapura, Nagalapura, Danayakanakere, Byalakundi, Gunda and Garaga villages	84	2 Villages / Bailkundi and Devlapura	24	1 Village / Gunda	12	**120**
	Development of Gaushala of nearby villages	7 Villages / Mariyammanahalli, Danapura, Nagalapura, Danayakanakere, Byalakundi, Gunda and Garaga villages	14	7 Villages / Venkatapura, Ayyanahalli, New Ayyanahalli, Vyasanakere, Galemmanagudi, Hanumanahalli and Gunda Station	14	8 Villages / Garga, New Graga, Byalakundi, Nagalapura, Nagalapura Thanda, Gunda, Gunda Thanada and Gollarahalli	16	**44**
Livelihood Related	Establishing Center of Excellence having Skill Development School, Training Center of Women, Library for youths, Open Gym and Classrooms for extra studies. Installation of sewing machines, internet with computer systems, machines for making hand craft items along with necessary raw materials, organizing training program, vocational program	7 Villages / Mariyammanahalli, Danapura, Nagalapura, Danayakanakere, Byalakundi, Gunda and Garaga villages	280	7 Villages / Venkatapura, Ayyanahalli, New Ayyanahalli, Vyasanakere, Galemmanagudi, Hanumanahalli and Gunda Station	280	8 Villages / Garga, New Graga, Byalakundi, Nagalapura, Nagalapura Thanda, Gunda, Gunda Thanada and Gollarahalli	320	**880**

Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. In lacs)
		1st Year		2nd Year		3rd Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	etc.							
	Promotion of Organic Farming	7 Villages / Mariyammanahalli, Danapura, Nagalapura, Danayakanakere, Byalakundi, Gunda and Garaga villages	21	4 Villages / Venkatapura, Ayyanahalli, New Ayyanahalli and Vyasanakere	12	4 Villages / Mariyamnhalli Town, Mariyamnhalli Thanda, Devlapura and Nandibandi	12	**45**
	Veterinary Services in the villages by organising Animal Health Camps	7 Villages / Mariyammanahalli, Danapura, Nagalapura, Danayakanakere, Byalakundi, Gunda and Garaga villages	14	4 Villages / Venkatapura, Ayyanahalli, New Ayyanahalli and Vyasanakere	8	4 Villages / Mariyamnhalli Town, Mariyamnhalli Thanda, Devlapura and Nandibandi	8	**30**
Sports related	Development of Playgrounds in the village & School grounds	2 Villages / Hanumanhalli and Mariyamnahalli	10	2 Villages / Gunda Thanada and Nagalapura Thanda	5	2 Villages / Gollarahalli and Gunda	10	**25**
	Basketball/volleyball Ground Development at government Schools	2 Villages / Hanumanhalli and Mariyamnahalli	6	2 Villages / Gunda Thanada and Nagalapura Thanda	6	2 Villages / Gollarahalli and Gunda	6	**18**
	Boundary wall at Playground	4 Villages / Indiranagar, Danapura, Hanumanhalli and Gunda Village	20	4 villages / Mariyamnahalli, Devlapura, Gollarahalli and Garga	20	4 villages / Naglapura, Ayanhali, Venktapura and Hampinakattey	20	**60**
		Total	**2680**	**0**	**2660**	**0**	**2660**	**8000**
Grand Total (Rupees Eight Thousand Lakhs or Eighty Crores only)								**8000**

****