NI - 38 /Raigarh/14
Dated - 20/10/14

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Commercial Complex, C.G. Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

No. 4291 /TS/CECB/2014 Raipur, dated: 21/10/2014

To,

M/s Shree Rupanadham Steel Private Limited,
Shop No. 52, Daga Bandhu,
Sahid Smarak Complex, GE Road,
Raipur - 492 001 (C.G.).

Sub: - Permission to establish under expansion for Sponge Iron-90,000 TPA, MS Billets-33,500 to 1,23,500 TPA, TMT Bars/Structural Steels/Wire rod mill-4800 to 94,800 TPA, WHRB Captive Power Plant-06 MW and FBC Captive Power Plant-12 MW.

Ref: - 1. Environmental Clearance issued by Ministry of Environment and Forests, Government of India vide letter no. J-11011/308/2009-IA II (I), dated: 29/03/2011.

2. Your application no. Nil, dated: 14/03/2012 and subsequent correspondence ending dated: 08/08/2014.

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Without prejudice to the powers of the Board under the Water (Prevention and Control of Pollution) Act, 1974, and the Air (Prevention and Control of Pollution) Act, 1981 and without reducing your responsibilities under the said Acts, and after going through your proposal for achieving the effluent and gaseous emission standards, it is to inform you that the Board grants you permission only for establishment under expansion for Sponge Iron, MS Billets, TMT Bars/Structural Steels/Wire rod mill, WHRB Captive Power Plant and FBC Captive Power Plant at Khasra no. 45, 62/2, 50/1, 50/2, 49/6 (Ka), 49/6 (Kha), 49/7, 49/5 and others, Village – Saraipali, Tehsil - Tamnar, District – Raigarh (C.G.), subject to fulfillment of following terms and conditions.

Terms & Conditions: -

1. The industry shall comply with all the terms and conditions of Environmental Clearance given by Ministry of Environment and Forests, Government of India vide letter no. J-11011/308/2009-IA II (I), dated: 29/03/2011.

2. This consent is valid for the following products and production capacities as detailed below : -

S.N.	Products	Capacity		
		Existing	Proposed expansion	After expansion
01	Sponge Iron	-	90,000 TPA	90,000 TPA
02	MS Billets	33,500 TPA	90,000 TPA	1,23,500 TPA
03	TMT Bars/Structural Steels/Wire rod mill	4,800 TPA	90,000 TPA	94,800 TPA
04	Waste Heat Recovery Based Captive Power Plant	-	06 MW	06 MW
05	FBC Based Captive Power Plant	-	12 MW	12 MW

3. Industry shall provide adequate facility for proper treatment of industrial and domestic effluent. Industry shall provide effluent treatment plant before commissioning of the plant. All the effluent treatment system shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay otherwise same alternate arrangement shall be made. Industry shall ensure the treated effluent quality within standard prescribed by Chhattisgarh Environment Conservation Board published in Gazette notification dated 25.03.1988. The major parameters of treated effluent shall conform the limit as follows: -

a. Condenser Cooling Water

a	pH	6.5 - 8.5
b	Temperature	Not more than 5^0C higher than the intake
c	Free available Chlorine	0.5 mg/L

b. Boiler Blow down

a	Suspended Solids	100 mg/L
b	Oil & Grease	20 mg/L
c	Copper (Total)	1.0 mg/L
d	Iron (Total)	1.0 mg/L

c. Cooling Tower Blow down

a	Free available Chlorine	0.5 mg/L
b	Zinc	1.0 mg/L
c	Chromium (Total)	0.2 mg/L
d	Phosphate	5.0 mg/L

d. Effluent generated other than as mentioned above

a	pH	5.5 - 9.0
b	BOD	30 mg/L
c	COD	250 mg/L
d	Oil and Grease	10 mg/L
e	Suspended Solids	100 mg/L

Chhattisgarh Environment Conservation Board may further stipulate stringent limit depending upon environmental conditions.

4. Industry shall not discharge any liquid effluent what so ever generated from various processes, cooling blow down, boiler blow down, sewage/sullage, effluent treatment plant etc. into the river or any surface water bodies. All the treated waste water shall be recycled and reused in the process, dust suppression and green belt development etc. Industry shall make proper arrangements of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. The concept of zero discharge shall be adopted by the industry.

5. Industry shall provide adequate measuring arrangement for the measurement of water utilized in different categories and effluent generated.

6. Industry shall provide suitable air pollution control equipments of adequate capacity and efficiency at all points and non point sources of emission of air pollutants from all the units of expansion of the existing plants and new plants. Industry shall install electrostatic precipitator (ESP) at Sponge Iron Plant and Power Plant. Industry shall provide bag filter/fume extraction system with the induction furnace to control source emissions. The emission of particulate matters shall not exceed 50 Milligram per Normal Cubic Meter from all points sources of emission of air pollutants. The gaseous emissions from various process units shall conform to the load/mass based slandered notified by the Ministry on time to time. At no time the emission level shall go beyond the prescribed limits/standards. In the event of failure of any pollution control system adopted by the industry, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Chhattisgarh Environment Conservation Board may further stipulate stringent particulate matter and air pollutants emission limit depending upon environmental conditions.

7. Ambient air quality within the factory premises shall not exceed the standards prescribed by the Board. Industry shall ensure the concentration of pollutants in ambient air within standards prescribed for residential, rural areas in the nearby residential/rural areas due to establishment/ commissioning of the plant. Industry shall follow provisions of notification issued by Ministry of Environment & Forests, Government of India in this regard from time to time.

8. Industry shall provide adequate arrangement for control of dust emissions during handling/transportation of coal/raw materials/finished product and from all transfer points/junction points. Bag filter of adequate capacity shall be established at coal circuit, cooler discharge area, intermediate bins, ash silo etc. All conveyor belts, Junction/transfer points of expansion unit shall be kept covered. Dust suppression system shall be provided to control dust from coal and iron storage area. Dust extraction system shall be provided in coal crushing and screening, product separation area etc. to control fugitive emission. All the internal roads shall be made pucca. Good house keeping practices will be adopted by the Management.

9. Industry shall install continuous online stack emission monitoring system with calibration facility in all the stacks and on line ambient air quality monitoring stations. Adequate number of permanent online ambient air quality monitoring stations (at-least four) shall be set-up in the down wind direction as well as where maximum ground level concentrations of Suspended Particulate Matter, Sulphur Dioxide and Oxides of Nitrogen are anticipated in consultation with the Board. Monitoring network shall be designed taking into account the land use pattern, location of the stacks, meteorological conditions and topographic features including existing ambient air quality data. The data shall be sent to Chhattisgarh Environment Conservation Board/Central Pollution Control Board electronically. Data on ambient air quality and stack emission shall be submitted to the Board every month.

10. Industry shall ensure use of properly covered vehicles for the transportation of raw materials, wastes etc. so as to avoid environmental hazards in the surroundings.

11. The height of all stacks attached with various particulate matter, air pollutants emission units shall be maximum of the following: -

    a. Based on $H=14(Q)^{0.3}$ (where Q is emission rate of SO_2 in Kg/Hr., and H is Stack height in meters) or;

    b. Based on calculation to ensure the ground level concentration of pollutants in ambient air in the nearby residential, rural and other areas including the areas where maximum ground level concentration are predicted (due to establishment/ commissioning of the plant after proposed expansion including existing operations) within prescribed limits all the time. Based on notification/guidelines of Ministry of Environment & Forests, Government of India/Central Pollution Control Board.

    c. Minimum height of other stack shall not be less than 30 meters. Adequate arrangement of stack monitoring shall be provided for all the stacks.

12. Industry shall install separate electric metering arrangements for the running of all the control devices. These arrangements shall be made in such a

fashion that any non-functioning of pollution control device(s) shall immediately stop the electric supply to the production unit/raw materials/fuels supply and shall remain tripped till the pollution control device/devices are made functional again / rectified to achieve the desired efficiency. The record & log book of electricity and chemical consumption for running the pollution control equipments shall be maintained & submitted to Board every month.

13. All raw materials/coal/finished products shall be stored above ground level with pucca platform in covered area. Industry shall provide safe and scientific arrangement for handling, storage and disposal of all solid wastes Coal and coke fines shall be recycled and reused in the process. Iron ore, fluxes, mill scale etc. shall be recycled to sinter plant to produce sinter. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner or in a suitably designed landfill as per CPCB guidelines to prevent leaching to the subsequent-soil and underground aquifer within the premises and efforts shall be made to make further utilization. Waste oil shall be sold to authorized recyclers. Industry shall not store/dump solid wastes outside the factory premises in any circumstances without prior permission of the Board.

14. Industry shall adopt dry ash extraction system and dry ash disposal system. Industry shall incorporate total fly ash utilization as integral part of the project. All the fly ash shall be utilized as per fly ash notification 1999 (as amended up to date). Industry shall provide adequate no. of silos for storage of Fly ash. Fly ash shall not be stored on open land in any case. Fly ash shall be utilized for other beneficial uses such as brick making, road construction, cement making etc. Industry shall use ash bricks, ash blocks or ash based products for their construction/repairing activities. Industry shall install fly ash brick plant (s) to consume maximum fly ash. Industry shall follow the guidelines, notification etc. for utilization of fly ash/bottom ash issued by Central Government/State Government/Central Pollution Control Board / Chhattisgarh Environment Conservation Board from time to time. Industry shall abide by the decisions taken by Central Government/ State Government/Central Pollution Control Board/Chhattisgarh Environment Conservation Board from time to time regarding use of fly ash /bottom ash.

15. Industry shall make proper arrangement for safe and scientific handling, storage, management and disposal of all solid wastes. Industry shall obtain letter of authorization under Hazardous Materials (Management, Handling and Trans Boundary Movement) Rules, 2008 from the Board, if any waste comes under the purview of Hazardous Materials (Management, Handling and Trans Boundary Movement) Rules, 2008.

16. Industry shall provide proper arrangement to control the noise pollution. Industry shall install appropriate noise barriers/control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation

to control the noise. The noise level shall not exceed the limit 75 dB(A) during the day time and 70 dB(A) during the night time within the plant premises. Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment.

17. Garland drains with appropriate check dams shall be provided all along the iron ore, coal, other raw materials, solid wastes such as; coal fines, iron ore fines, sludge, slag, mill scale, steel melting shop dust, sinter plant air pollution control system returns, hearth layer and dust collected in air pollution control devices etc. storage areas etc. to avoid any possibility of erosion (wash-off) during rain. Garland drain (size, gradient & length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains. The surface run-off shall be de-silted through a series of check dams and drains before re-use.

18. Industry shall adopt rainwater-harvesting technique in the project area and residential area (if any) for recharge of ground water. The rain harvesting technique shall be incorporated right from the design stage of all structures. Industry shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table.

19. Construction of effluent treatment plant and installation of air pollution control equipments shall be taken up simultaneously with other civil/mechanical works.

20. Extensive tree plantation with broad leaf local species shall be developed covering at least 1/3rd of the plant area. Industry shall involve local villagers for the development of green belt as an additional source for employment generation. Industry shall plant 1500 – 2000 saplings per hectare of local species. Industry shall ensure maximum use of treated waste water for the development of green belt for the conservation of water resources.

21. Industry shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who will directly report to the head of organization. A full-fledged laboratory with qualified technical/scientific staff shall be provided to monitor the influent/effluent quality, ground water quality, storm water/ runoff quality, surface water quality, soil quality, ambient air quality, stack emission and environmental samples etc.

22. Necessary fund shall be provided for implementation of the above conditions, conditions to be incorporated in the 'consent to operate' of the Board and for environmental safeguards. The funds earmarked for environmental protection measures shall be kept in separate account and not diverted for any other purpose.

23. Industry shall obtain statutory clearances/licenses from concerned Central Government/State Government Departments, Boards, Bodies and Corporations etc. before establishment of the plant for expanded capacity. Industry shall follow direction issued by Central Government/State Government, Central Pollution Control Board/Chhattisgarh Environment Conservation Board from time to time regarding control of water & air pollution and for environmental conservation

24. The issuance of this permission does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

25. Industry shall abide by any other conditions given at the time of grant of consent under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981.

26. Any change in product, production capacity, process, raw materials used, project profile etc. shall be intimated to the Board and prior permission of the Board shall be obtained for the same.

27. This permission to establish shall be valid for the period of five years effective from the date of issue of this letter. This permission to establish shall be treated as cancelled in case; no construction activity has been started on the site regarding establishment of the project during this period. Chhattisgarh Environment Conservation Board reserves the right to extend the validity period / not to extend the validity period/ cancel /withdraw the permission to establish of the project, based on the construction activities carried out on the site regarding establishment of the project.

28. Board reserves the right to amend/cancel any of the above conditions, stringent the emission/effluent limits stipulated above and add new conditions as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.

The consent (for operation) as required under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 shall be granted to your industry after fulfillment of all the conditions mentioned above. For this purpose you shall have to make an application to this Board in the prescribed Performa at least two months before the expected date of commissioning of the plant of expanded capacity. The applicant shall not without valid consent (for operation) of the Board bring into use any out let for the discharge of effluent and particulate matter/gaseous emission.

For & on behalf of
Chhattisgarh Environment Conservation Board

Member Secretary
Chhattisgarh Environment Conservation Board

Endt. No. /TS/CECB/2014 Raipur, dated: ___/___/2014
Copy to: -

1. Chief Engineer, M/s Chhattisgarh State Power Generation Company Ltd. (Formerly known as Chhattisgarh State Electricity Board), Raigarh for information and necessary action please. The power supply to the unit shall be released only after submission of the copy of **"Consent to Operate"** issued by Chhattisgarh Environment Conservation Board, Raipur.

2. Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raigarh (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.

Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)