EI-2380/Raipur/06
Date - 04/05/06

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Nanak Niwas, Civil Lines, Raipur (C.G.)

No. 2330/TS/CECB/2006 Raipur, dated: 4/5/2006

To,

M/s Godawari Power and Ispat Limited,
(Formerly Known as Ispat Godawari Limited),
Plot No. 428/2, Phase-1,
Industrial Area,
Siltara,
District - Raipur (C.G.) 493 111

Sub: - Permission to establish expansion in existing plant for additional production of Sponge Iron - 2,60,000 Metric Tonnes per Year, Power Plant - 25 Megawatt (WHRB based), Steel Plant - 2,00,000 Metric Tonnes per Year, Oxygen Gas Plant - 12,00,000 Cubic Meter per Year, Nitrogen Gas Plant - 45,00,000 Cubic Meter per Year and Fly Ash Bricks Plant - 1,65,00,000 Nos./Year.

Ref: - 1- NOC issued by the Board for vide letter No. 4751/TS/CECB/2005 Raipur, dated: 07/10/2005.

2- Environmental Clearance from MoEF given vide letter No. J-11011/326/2005-IA.II (I), dated: 02/03/2006.

3- Your Application Letter No. GPIL/VT/2005-06/052, dated: 24/03/2006 and subsequent corresponding ending dated: 17/04/2006.

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Without prejudice to the powers of this 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 this Board grants you permission only for establishment of expansion in existing plant for additional production of Sponge Iron - 2,60,000 Metric Tonnes per Year (Two Lacs Sixty Thousand Metric Tonnes per Year), Power Plant - 25 Megawatt [WHRB based] (Twenty Five Megawatt), Steel Plant - 2,00,000 Metric Tonnes per Year (Two Lacs Metric Tonnes per Year), Oxygen Gas Plant

12,00,000 Cubic Meter per Year (Twelve Lacs Cubic Meter per Year), Nitrogen Gas Plant - 45,00,000 Cubic Meter per Year (Forty Five Lacs Cubic Meter per Year) and Fly Ash Bricks Plant - 1,65,00,000 Nos./Year (One Crores Sixty Five Lacs Nos. per Year) at Plot No. 428/2, Phase-1, Industrial Area, Siltara, District - RAIPUR (C.G.), subject to fulfillment of following terms and conditions.

Note: -

The above production capacity exclude the existing production capacity of Sponge Iron (From two Kilns) - 2,35,000 Tonnes/Year, Semi Finished Steel in the form of Billets & Ingots - 2,00,000 Tonnes/Year, Power Generation (Waste Heat Recovery with fluidized bed boiler power for capacity use) - 28 MW, Ferro Alloys or Pig Iron (by submerge arc furnace) - 16,500 Tonnes/Year or 33,000 Tonnes/Year and H.B. Steel Wire - 1,00,000 Tonnes/Year for which consent has already been granted under Water and Air (Prevention and Control of Pollution) Act, respectively vide letter No. 1160, dated: 03/03/2006 and letter No. 1162, dated: 03/03/2006.

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-11011/326/2005-IA.II (I), dated: 02/03/2006.
2. This permission is valid only for installation of additional production of Sponge Iron - 2,60,000 Metric Tonnes per Year (Two Lacs Sixty Thousand Metric Tonnes per Year), Power Plant - 25 Megawatt [WHRB based] (Twenty Five Megawatt), Steel Plant - 2,00,000 Metric Tonnes per Year (Two Lacs Metric Tonnes per Year), Oxygen Gas Plant - 12,00,000 Cubic Meter per Year (Twelve Lacs Cubic Meter per Year), Nitrogen Gas Plant - 45,00,000 Cubic Meter per Year (Forty Five Lacs Cubic Meter per Year) and Fly Ash Bricks Plant - 1,65,00,000 Nos./Year (One Crores Sixty Five Lacs Nos. per Year).
3. Industry shall provide proper treatment facility of adequate capacity for treatment of all industrial effluents (Blow down, Back Wash, Cooling Water Discharge & Gas Cleaning Plant etc.). Industry shall install proper and suitable treatment plant of adequate capacity for treatment of domestic effluent. Industry shall ensure the treated effluent quality meet the standards prescribed by Board published in Gazette Notification dated 25.03.88 all the

time. Industry shall provide suitable arrangement of drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. Industry shall not discharge any treated/untreated effluent in to any surface water bodies. The treated industrial/domestic effluent shall be re-used either in the process or for land use only within premises. No effluent shall be discharged out side of the factory premises in any circumstances; hence zero discharge condition shall be maintained all the time.

4. Water measuring arrangement shall be made for measurement of water consumed and waste water generated.

5. Industry shall provide suitable air pollution control equipments of adequate capacity at all points of emission and shall ensure that the particulate matter emission shall not exceed 50 mg per Nm^3 under any circumstance. Gas Conditioning Tower and Electrostatic Precipitator of adequate capacity and efficiency (not less than 99.9 %) for control of flue gases emitted from kiln and waste heat recovery/boiler followed by stack of height as per formulae $H=14(Q)^{0.3}$ (Where Q is emission rate of SO_2 in Kg/hr and H is stack height in meters) or minimum 70 meters or as per guidelines of Ministry of Environment & Forests, GoI/Central Pollution Control Board based on micro meteorological data (which ever is more) with arrangement of stack monitoring shall be provided. The height of other stacks shall not be less than 30 meters also. Chhattisgarh Environment Conservation Board may further stringent particulate matter emission limit depending upon environmental conditions.

6. Effective steps shall be taken to control fugitive emission inside the plant. All internal roads shall be made pucca. Industry shall prepared time bound action plan for this purpose and submit the same to this Board. Adequate arrangement shall be provided to control fugitive dust emission during handling/transportation of coal/raw materials / finished product, waste materials etc. Bag filters/central de-dusting system shall be installed at material handling systems, coal/coke/flux crusher, coal injection, screen section, hot sinter breaker, cooler, vibro-feeder, sinter screen, all transfer points, junction points etc. All conveyor belts, junction/transfer points shall be kept covered. Good house keeping practices shall be adopted by the industry.

7. Industry shall provide adequate arrangement such as water sprinkling arrangement to control emission of dust during construction.

8. Industry shall submit technical details (drawing, design criteria, design, treatment capacity and efficiency etc.) and copy of work

orders of air pollution control equipments and effluent treatment plant to be installed within 3 months.

9. The ambient air quality within the factory premises shall not exceed the following limits: -

a	Suspended Particulate Matter	500 Micrograms/ m^3
b	Sulphur Dioxide	120 Micrograms/ m^3
c	Oxides of Nitrogen	120 Micrograms/ m^3
d	CO	5000 Micrograms/ m^3

Industry shall ensure the ground level concentration of pollutants within standard prescribed for residential, rural areas in the nearby residential/rural areas due to establishment/commissioning of plant with expanded capacity.

10. Continuous monitoring systems for monitoring of pollutants level both in the stack (On-Line Opacity Meter) and ambient shall be installed. Adequate number of permanent ambient air quality monitoring stations (not less than four) shall be set-up in the down wind direction as well as where maximum ground level concentrations 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.

11. Industry shall install separate electric metering arrangement for running the pollution control devices and this arrangement shall be made in such a fashion that any non-functioning of pollution control device shall stop the production and tripped till such time the pollution control devices are made functional again.

12. Industry shall provide safe and scientific arrangement for handling, storage and disposal of all solid wastes, sinter dust, mill scale, sludge, ash and dust collected in air pollution control devices etc. Industry shall not store these materials for longer period within premises. Industry shall provide pucca platform above ground level for temporary storage of these materials. The sinter dust and mill scale shall be re-used in the sinter plant. Industry shall provide garland drain with appropriate numbers of check dams around solid wastes temporary storage area to avoid erosion due to 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 project 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. Industry shall submit comprehensive solid waste management plan to the Board and get it approved from the Board.

13. All raw materials/coal/finished products shall be stored above ground level with pucca platform in covered area. Industry shall provide garland drain with appropriate numbers of check dams around raw materials/coal/finished product storage area to avoid erosion of raw materials/coal/finished product etc. due to 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 project 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.

14. Industry shall submit characterization report of all the wastes generated. As per characterization report, if any waste comes under the preview of Hazardous Wastes Management Rule 1989 (as amended on 2003), Industry shall obtain letter of authorization under Hazardous Wastes Management Rule 1989 (as amended on 2003) form the Board.

15. Industry shall use good quality coal with minimum ash content. The quality of coal used shall confirm the quality prescribed by Central Government/Central Pollution Control Board/State Government/Chhattisgarh Environment Conservation Board. Industry shall follow provisions of notification issued by Ministry of Environment & Forests, Government of India regarding use of beneficiated coal (if applicable). Industry shall adopt clean power generation technology as far as possible.

16. The fly ash/bottom ash generated shall be stored in silo of capacity not less than 8 Days. The ash generated shall not be stored on the land in open areas under any circumstances. The Industry shall incorporate total fly ash/bottom ash utilization as integral part of the project. Industry shall install dry ash extraction system so that ash generated during the process collected in dry form and it shall be utilized 100% for brick/cement manufacturing, road construction, filling in low lying areas and other beneficiary usages. Industry shall use ash bricks, ash blocks or ash based products for their construction/repairing activities. Industry shall adopt dry ash disposal system.

17. The industry shall follow the guidelines, notification etc. for utilization of ash issued by Central Government/ State Government

from time to time. Industry shall abide by the decisions taken by Central Government/Central Pollution Control Board/State Government/Chhattisgarh Environment Conservation Board from time to time regarding use of fly ash/bottom ash.

18. Industry shall adopt rainwater-harvesting technique in project area for recharge of ground water. Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations at the proponent's cost in and around project area in consultation with Regional Director, CGWB, Central Region, Bhopal. Regular monitoring of surface and ground water quality shall be carried out by establishing a network of stations at suitable locations in project area. The frequency of monitoring shall be four time a year - pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data generated from groundwater regime monitoring will be submitted to Board on an annual basis.

19. Extensive tree plantation shall be carried out in and around factory premises. At-least 25 meter wide green belt shall be developed all along the periphery of the plant. The tree plantation shall be carried out in phased manner preferably with local species as per the proposal submitted along with the application.

20. The industry shall take proper action to control the noise pollution. Industry shall install appropriate noise barriers to control the noise. The noise level should not exceed the limit 75 dB(A) during the day time and 70 dB(A) during the night time within factory premises.

21. The industry shall establish an environmental management cell to carryout function relating to environmental arrangement under the supervision of senior executive, who will directly report to the head of organization.

22. All the recommendations of the Charter on Corporate Responsibility for Environment Protection (CREP) shall be strictly implemented.

23. Industry shall obtain statutory clearances/licenses from concerned Central/State Government Departments, Boards, Bodies and Corporations etc. before start of construction activity for expanded capacity. Industry shall follow direction issued by Central/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 'consent to establish' of Board 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. No separate residential colony for this expansion project shall be constructed.

27. Necessary funds shall be provided for implementation of the above mentioned conditions and for environmental safeguards. The funds earmarked for environmental protection measures shall be kept in separate account and not diverted for any other purpose.

28. Any change in 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.

29. Board reserves the right to amend/cancel any of the above conditions 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 Proforma at least two months before the expected date of commissioning of the plant. 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
Raipur (C.G.)

Endt. No. /TS/CECB/2006 Raipur, dated: ___/__/2006
Copy to: -

1. Chief Engineer, Chhattisgarh State Electricity Board, Raipur, 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 (C.G.).
2. Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.).

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