

भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

F.No.4/8/2006 -CCC

28 April 2006

To
Mr Ramavatar Agarwal
Managing Director
R. R. Energy Private Limited
65 Transport Nagar
Korba, Chhattisgarh
Fax: 07759. 22747

Sub: Host Country Approval to "14 MW biomass rice husk power project" at Raipur, Chhattisgarh by M/s R. R. Energy Private Limited (RREPL) – regarding CDM.

Sir,

Kindly refer to Ministry's letter No.4/8/2006-CCC dated 28 April 2006 conveying Host Country Approval to your CDM project "14 MW biomass rice husk power project" at Raipur, Chhattisgarh.

Please note that the following conditions shall also be complied with:

- (i) M/s RREPL and other project promoters shall not sell the CERs to any agency/ company/ organization, which purchase the CERs using ODA Funds.
- (ii) M/s RREPL and other project promoters shall inform the National CDM Authority regarding all transaction details of CERs including the name and address of the party to which CERs were sold within 30 days of transfer of the CERs.
- (iii) M/s RREPL and other project promoters shall furnish expeditiously any information, during the lifetime of the project as requested by the National CDM Authority.
- (iv) M/s RREPL and other project promoters shall obtain all statutory clearances and other approvals as required from the competent authorities for setting up of the project.
- (v) All transactions shall be subject to supervision of the Executive Board of the CDM, under the authority and guidance of the COP/MOP.
- (vi) This approval is not transferable. The authority reserves the right to revoke this Host Country Approval if the conditions stipulated in this approval are not complied with to the satisfaction of the National CDM Authority.

Yours faithfully,

(R.K. Sethi)
Director (CC)



जहाँ है हरियाली।
वहाँ है खुशहाली।।

पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली-1100 03 सूचना सुविधा केन्द्र फोन : 24361669
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI-110003 website : <http://envfor.nic.in>

F. No. J-11011/552/2008- IA II (I)
 Government of India
 Ministry of Environment and Forests
 (I.A. Division)

Paryavaran Bhawan
 CGO Complex, Lodhi Road
 New Delhi – 110 003
 E-mail: ms.industry-mef@nic.in
 Tele/fax: 011 – 2436 3973
 Dated: August 2, 2010

To,

The Director,
 M/s R.R. Energy Ltd.
 P.O. Garhumaria, NH- 200, Jharsuguda Road,
 District Raigarh- 496 004
 Chhattisgarh

Ph: 07762 – 233385, Fax: 07762- 233387
 E-mail: rrenergylimited@rediffmail.com

Sub: Expansion of Mini Steel Plant by installation of Ferro Alloy Plant (30,000 TPA) and Captive Power Plant (40 MW = 25 MW coal based + 15 MW biomass based) at Jharsuguda Road, District Raigarh in Chhattisgarh by M/s. R.R. Energy Limited regarding Environmental Clearance

Sir,

This has reference to your letter no. RREN/RN/2009-2010 /94 dated 26th March, 2010 along with a copy of EIA/EMP report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the application for the above project. It is noted that M/s R. R. Energy Ltd. have proposed for expansion of Mini Steel Plant by installation of Ferro Alloy Plant (10.8 MVA, 30,000 TPA) and Captive Power Plant (40 MW (25 MW coal based + 15 MW biomass based)) at Jharsuguda Road, District Raigarh, Chhattisgarh. The existing project area is 17.072 ha and 4 ha will be acquired for the expansion project for ash dyke purpose. Gajmer RF (3.5 km. NE), Udanaa RF (9 km N) and Boirdadar RF (9 km. NE) are located within 10 km. radius of the project. Total cost of the project is Rs. 93.10 Crores. Rs. 10.71 Lakhs and Rs. 1.352 Lakhs will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures.

3. Following are the details of existing and proposed plants.

S.N.	Name of product to be expanded	Proposed Capacity Expansion
Proposed facility :		
1	Ferro Alloys plant	3x3.6 MVA (Ferro/Silico Manganese; 30,000 TPA)
2	Captive Power Plant	25 MW (Coal/rejects based Thermal Power Plant)

3	Bio-Mass Power Plant (existing 14 MW)	15 MW through efficiency improvement
Existing facility :		
4	Biomass Power Plant	14 MW (Rice Husk based Thermal Power Project)
5	Semi Finished Steel Plant under implementation	6x16 T (Induction Furnace with CCM 1,00,000 TPA)
6	Fly Ash Bricks Plant	19,800 TFA

4. During expansion, ferro alloy plant (3x3.6 MVA) to produce 30,000 TPA ferro alloy such as ferro Manganese, Silico Manganese will be installed. AFBC boiler has been installed for the existing bio mass based power plant and CFBC boiler has been proposed for the coal based power plant. Air cool condenser will be installed. Gaseous emissions will be generated from CPP and ferro alloy plant. High efficiency ESP will be provided to CPP to control particulate emissions within 50 mg/Nm³. Bag filters will be provided at conveyors and at all the transfer points. Bag filters will be provided to ferro alloy plant and induction furnace. Dust extraction system with bag filters will be provided to control fugitive emissions due to unloading and handling of coal and ash.

5. Water requirement of 247 m³/day, including 100 m³/day for the existing plant will be met from the River Kelo. Permission has been granted by the Chhattisgarh State Water Resources Department for drawl of 0.09 million m³/year of water vide letter no. 3234/F4-124/31/OJPRO/S-2/08 dated 7th July, 2009 (p.278/c). R.O. system will be installed for DM Water generation. Effluent treatment plant will be installed to treat back wash and pond sedimentation. All the treated wastewater will be neutralized and used for ferro alloys slag quenching, coal moistening, fly ash brick manufacturing and green belt development. 'Zero' discharge will be adopted. The sewage effluent will be treated in septic tank followed by soak pit and used for irrigation purpose.

6. Fly ash generation will increase from 22,000 TPA to 1,14,500 TPA and slag generation will increase from 10,000 TPA to 24,000 TPA. Fly ash from ESP will be used in existing fly ash brick plant to manufacture bricks and also provided to cement plants for PPC manufacturing. Slag from ferro alloy plant after granulation and bottom ash will be used for filling low lying areas. Used / waste oil will be sold to registered recyclers. Greenbelt is proposed in 5.5 ha out of total 21.071 ha.

7. All the Ferro Alloy plants are listed at S.No. 3(a) under Primary Metallurgy Industries under Category 'A' and appraised at the Central level. Public hearing/Public consultation meeting was conducted by the Chhattisgarh Environment Conservation Board on 7th February, 2010.

8. The proposal was considered by the Expert Appraisal Committee-1 (industry) in its meeting held during 24-26th June, 2010. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.

8. Based on the information submitted by you, presentation made by you and consultant, Iridus Technical and Financial Consultant Ltd, Raipur, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. Specific conditions

- i. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP) and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology.
- ii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
- iii. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed. Suction hood with bag filter shall be provided to control particulate emissions < 50 mg/Nm³ from the induction furnace.
- iv. All the conveyor points shall be covered. Bag filters shall be provided to control the dust at the transfer points. Water sprinkling system shall be provided at loading point of primary crusher, haul roads and conveyor belts etc.
- v. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.
- vi. The waste water after treatment in the ETP shall be recycled for brick making, slag and ash quenching and green belt to achieve zero discharge.
- vii. Proper utilization of fly ash should be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' should be submitted to the Ministry's Regional Office at Bhopal
- viii. Green belt shall be developed in 33 % of plant area. The selection of plant species shall be as per the CPCB guidelines after consultation with DFO.
- ix. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.

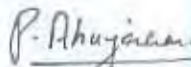
- x. Measures shall be taken to prevent impact of particulate emissions / fugitive emissions, if any from the proposed plant located within 10 km radius of the project. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department should be prepared and implemented. One ambient air quality monitoring station shall be set up at the nearest reserve forest area.
- xi. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 7th February, 2010 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal
- xii. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal Implementation of such program should be ensured accordingly in a time bound manner.
- xiii. The company shall provide housing for 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i. The project authority shall adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The CECB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. All the environment management measures given in the EIA/EMP shall be implemented and complied with.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. Proper house keeping and adequate occupational health programmes shall be taken up as per the Factory Act.
- ix. The company shall undertake eco-development measures including community welfare measures in the project area.
- x. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xi. The requisite funds shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- xii. The Project Authorities 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 and the date of commencing the land development work.
- xiii. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xiv. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xv. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the CWCB. The Regional Office of this Ministry at Bhopal/CPCB/CECB shall monitor the stipulated conditions.

- xvi. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xvii. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB and may also be seen at the Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhopal.
8. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.
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 Wastes (Management and Handling) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. P.L. Ahujara)
Scientist-F

Copy to:

1. The Secretary, Department of Environment, Govt. of Chhattisgarh, Chhattisgarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
4. The Chief Conservator of Forests (Eastern) Regional Office (Western Zone), E-3/240, Arera Colony, Bhopal - 462 016, M.P.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard file/Record file.

(Dr. P.L. Ahujarai)
Scientist-F

F. No. J-11011/552/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Annexure-3

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003
E-mail: ahuja.rai@nic.in
Tele/fax: 011 – 2436 3973
Dated: 7th February, 2012

To,

The Director,
M/s R.R. Energy Ltd.
P.O. Garhumaria, NH- 200, Jharsuguda Road,
District Raigarh- 496 004, Chhattisgarh

Ph: 07762 – 233385, Fax: 07762- 233387
E-mail: rrenergylimited@rediffmail.com

Sub: Expansion of Mini Steel Plant by installation of Ferro Alloy Plant (30,000 TPA) and Captive Power Plant (40 MW = 25 MW coal based + 15 MW biomass based) at Jharsuguda Road, District Raigarh in Chhattisgarh by **M/s. R.R. Energy Limited- regarding Amendment in Environmental Clearance**

Sir,


This is in continuation of this Ministry's letter of even no. dated 2.08.2010 and your subsequent communication dated 20.07.2011 requesting the Ministry for amendment of environmental clearance dated 2.08.2010 for change in Submerged Arc Furnace configuration from 3x3.6 MVA to 2x9 MVA and production of 30,000 of ferro alloys (ferro / silico manganese / ferro silicon).

2. Your request for amendment of environmental clearance dated 2.08.2010 was placed before the Expert Appraisal Committee-1 (Industry) in its meeting held during 26th - 27th September, 2011. The Committee noted that due to change in configuration of Submerged Arc Furnace from 3x3.6 MVA to 2x9 MVA and production of additional ferro alloy i.e. ferro silicon would not result increase in the pollution load and there is no increase in the land requirement.

3. The Expert Appraisal Committee-1 (Industry) recommended the proposal for amendment in environmental clearance letter no. J-11011/552/2008-IA.II (I) dated 2.08.2010. for change in Submerged Arc Furnace configuration from 3x3.6 MVA to 2x9 MVA and production of 30,000 of ferro alloys (ferro / silico manganese / ferro silicon).

4. The Ministry accepts recommendation of the Expert Appraisal Committee-1 (Industry) for change in Submerged Arc Furnace configuration from 3x3.6 MVA to 2x9 MVA and production of 30,000 of ferro alloys (ferro / silico manganese / ferro silicon).

For- R.R. Energy Ltd.


Auth. Signatory

5. The company shall comply with the conditions stipulated while according environmental clearance on 2.08.2010. In future, in case of change in the scope of the project, the company shall obtain fresh environmental clearance.

This issues with approval of the Competent Authority. -

Yours faithfully,

P. Ahujara

(Dr. P.L. Ahujarai)
Scientist 'F'

Copy to:

1. The Secretary, Department of Environment, Govt. of Chhattisgarh, Chhattisgarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
4. The Chief Conservator of Forests (Eastern), Regional Office (Western Zone), E-3/240, Arera Colony, Bhopal - 462 016, M.P.
5. Monitoring Cell, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Guard file / Record file

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(Dr. P.L. Ahujarai)
Scientist-F

For- R R Energy Ltd.

Ratnak
Auth. Signotary