



**J-13012/11/2008-IA.II (T)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**

Indira Paryavaran Bhawan, Jor Bagh Road  
Aliganj, New Delhi-110003  
Dated: 10.02.2016

To

M/s. RattanIndia Nasik Power Ltd.  
(formerly known as Indiabulls Realtech Ltd.)  
M-62 & 63, First Floor,  
Connaught Place,  
New Delhi-110001  
Tel. No. 011-30252900; Fax: 011-30252901

**Sub: 5x270 MW coal based TPP at Sinnar Industrial Area, District Nasik, Maharashtra by M/s RattanIndia Nasik Power Ltd. - reg. extension of validity of EC and amendment of EC for temporary permission for transportation of coal by road.**

Sir,

This has reference to your online application dated 12.05.2015 & 04.08.2015 and letter dated 27.08.2015 for extension of validity of EC and letter dated 11.08.2015 for amendment of EC for temporary permission for transportation of coal by road. It is inter-alia noted that EC to the above project was accorded on 28.07.2010 and the same was amended for transportation of coal by road on 25.08.2014 for one year with a direction to conduct Traffic Study within one year for further extension.

2. The matter was placed before the Expert Appraisal Committee (Thermal Power) in its 41<sup>st</sup> Meeting held during 27<sup>th</sup> August, 2015. In acceptance of the recommendation of the EAC and in view of the information/documents/clarifications furnished by you, with respect to the above mentioned power project, the Ministry hereby accords the **extension of Validity of EC till 27.07.2017 to start the production/operations by the TPP and temporary permission for transportation of coal by road for another two years** subject to the following additional conditions.

- i) *Prior requisite approvals from the concerned Authorities shall be obtained.*
- ii) *Adequate road safety measures shall be provided for pedestrians and specifically near Schools.*
- iii) *Monitoring of air pollution and noise shall be carried out at least once in a month and submitted to Ministry's R.O. and SPCB.*
- iv) *The PP shall take up the matter of capacity augmentation of the Routes with the State Government and shall also facilitate the same.*
- v) *The PP shall advertise in the local leading newspapers and place on the website, the extension of validity and amendment of EC (after receipt from the Ministry) for public information.*

4. All other conditions mentioned in the EC and its amendment shall remain the same.

This issues with the approval of the Competent Authority.

Yours faithfully,

  
(B.B. Barman)  
Scientist 'F'

*Copy to:*

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary, Department of Environment, Govt. of Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion Matunga Scheme Road No. 6, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai - 400 022.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Additional Chief Conservator of Forests (C), Ministry of Env., Forest and Climate Change, Regional Office (WCZ), Ground floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001.
7. The District Collector, Nasik District, Maharashtra.
8. Guard file/Monitoring file.
9. Website of MoEF&CC



(B.B. Barman)  
Scientist 'F'

**J-13012/11/2008-IA.II (T)**  
**Government of India**  
**Ministry of Environment, Forests and Climate Change**

3<sup>rd</sup> Floor, Vayu Block,  
Indira Paryavaran Bhawan, Jor Bagh Road,  
Aliganj, New Delhi-110003

Dated: 25<sup>th</sup> August, 2014.

To

M/s Indiabulls Realtech Ltd.  
E-29, First Floor,  
Connaught Place,  
New Delhi-110001

Tel. No. 011-41523700

**Sub: 5x270 MW coal based TPP at Sinnar Industrial Area, District Nashik, Maharashtra by M/s Indiabulls Realtech Ltd. - reg. Amendment of EC for temporary road transportation of coal.**

Sir,

This has reference to your letter dated 17.03.2014 on the above subject. It is noted that the Environmental Clearance for the said project was accorded by MoEF on 28.07.2010.

2. The matter was placed before the Expert Appraisal Committee (Thermal Power) in its 13<sup>th</sup> Meeting held during March 25-26, 2014. In acceptance of the recommendation of the Expert Appraisal Committee (Thermal Power) and in view of the information/clarification furnished by you with respect to the implementation of the above mentioned power project, temporary permission for road transportation of coal **for one year** is accorded subject to the following conditions:

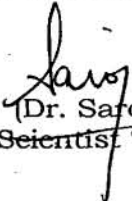
- (a) An action plan for expediting the implementation of railway siding shall be submitted within one year for review.
- (b) Detailed traffic study of proposed road transport route (s) shall be submitted within one year for review.
- (c) The coal transportation by road through mechanically covered trucks shall be explored and till such time the transportation may be carried out through tarpaulin covered trucks. Periodic maintenance of the road may be carried out by the project proponent at its cost and smooth traffic flow on the road may also be facilitated by the project proponent in consultation with the State Government Authorities.
- (d) Avenue plantation of 2/3 rows all along the road shall be carried out by the project proponent at its own cost in consultation with the State Government Authorities.

3. Further, under Para no.4 of the said EC dated 28.07.2010, after the specific condition no. (xxiii), the following conditions shall be added for compliance:

- (xxiv) Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.

- (xxv) A long term study on radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.
- (xxvi) Mercury emissions from stack shall also be monitored on periodic basis.
- (xxvii) Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land.
- (xxviii) Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.
- (xxix) Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.
- (xxx) An Environmental Cell comprising of at least one expert in environmental science/ engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.
- (xxxi) The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.
4. All other conditions mentioned in this Ministry's letter of even no. dated 28.07.2010 shall remain the same.
5. This issues with the approval of the Competent Authority.

Yours faithfully,

  
(Dr. Saroj)  
Scientist 'F'

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary, Department of Environment, Govt. of Maharashtra.

3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai - 400 022.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Ravishankar Nagar, Bhopal - 462016.
7. The District Collector, ~~Nasik District, Maharashtra.~~
8. The Director (EI), MOEF.
9. Guard file.
10. Monitoring file.

(Dr. Saroj)  
Scientist 'F'



**J 13012/11/2008-IA.II (T)**  
**Government of India**  
**Ministry of Environment & Forests**

Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110 003  
Dated: July 28<sup>th</sup>, 2010.

To

M/s Indiabulls Realtech Ltd.  
"Indiabulls House",  
448-451, Udyog Vihar Phase-V  
Gurgaon- 122 001.

**Sub: 5x270 MW Coal Based TPP at Sinnar Industrial Area, in Nasik Distt., in Maharashtra - reg. Environmental Clearance.**

Sir

The undersigned is directed to refer to letters dated 16.03.2010, 06.06.2010 and 16.07.2010 and communication no. MPCB.RO(P and P)B-2068 dated 19.03.2010 on the subject mentioned above. The Ministry of Environment & Forests has examined the application seeking environmental clearance under the provisions of EIA notification, 2006.

2. It has been noted that the proposal was earlier setting up of 2x660 MW (1320 MW) (super-critical technology) Coal Based TPP at proposed Sinnar SEZ, in Nasik District, in Maharashtra. Sinnar town is located at the distance of 5 km of the sites. The land requirement will be 900 acres. The proposal was granted exemption from public hearing as the said TPP is proposed in notified industrial area, which also forms part of proposed SEZ. Later the configuration of the TPP was changed to 5x270 MW (1350 MW) and the Ministry has reiterated the TOR prescribed for 2x660 MW for the changed configuration of 5x270 MW. Water requirement will be obtained from treated water from Sewage Treatment Plant of Nasik Municipal Corporation. Water allocation of 100 MLD from treated STP of Nasik has been accorded by Water Resources Dept., Govt. of Maharashtra. The plant will operate under zero discharge condition. Water requirement for construction phase will be met from river Godavari and no ground water shall be used even for construction purpose. COC 5.0 will be adopted. Coal requirement will be 5.94 MTPA. Transportation of Coal will be through railway. Ash and Sulphur contents in coal will be 37% and 0.35 % respectively. Two stacks of 275 m each (one bi-flue and one tri-flue) with exit velocity of 22 m/s will be installed. There is no ecologically sensitive location, such as, National Park, Wildlife Sanctuary, Elephant/Tiger Reserve or migratory routes, heritage sites etc. within the 10 km radius study area. Cost of the project will be Rs 6789.0 Crores.

3. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006.

4. Based on the information submitted by you, as above at para no. 2 and others the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA notification dated September 14, 2006, subject to the compliance of the following Specific and General conditions:

**A. Specific Conditions:**

- (i) Provision for FGD shall be provided for future use as and when required.
- (ii) The project proponent shall facilitate the State Government in creation of a Committee under the charge of the District Collector and comprising of a representative of the Maharashtra State Pollution Control Board and local civil society (NGO). The Committee shall monitor the performance of the power plant and submit its report to the Regional Office of the Ministry of Environment & Forests from time to time. The Committee shall meet atleast once a year and the meeting shall be initiated by the project proponent.
- (iii) Hydro-geological study of the area shall be also **reviewed annually** and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed at any stage, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.
- (iv) No ground water shall be extracted for use in operation of the power plant even in lean season.
- (v) No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.
- (vi) COC of 5.0 shall be adopted.
- (vii) Local employable youth shall be trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.
- (viii) Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.

- (ix) Two stacks 275 m of height with flue gas velocity of 22 m/s shall be installed.
- (x) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm<sup>3</sup>. An additional ESP field (for design coal parameters) shall be provided.
- (xi) Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
- (xii) Utilisation of 100% Fly Ash generated shall be made from 4<sup>th</sup> year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.
- (xiii) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.
- (xiv) High Concentration Slurry Disposal system for fly ash disposal shall be adopted.
- (xv) Ash pond shall be lined with HDP/LDP or any other suitable impermeable lining such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.
- (xvi) For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.
- (xvii) Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75 %.
- (xviii) Besides development of green belt in the plant site the project proponent shall also undertake extensive plantation such that the plantations can act as buffer against villages/ human habitations in vicinity. To meet the expenditure of these plantations and their management, a common Green Endowment Fund should be created by the project proponent.



- (xix) Two nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.
- (xx) The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the near by villages and schools shall be undertaken in a time bound manner.
- (xxi) An amount of Rs 27.20 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent vide its letter dated 23.03.2010. Subsequently a recurring expenditure of Rs 5.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be **submitted within one month** along with road map for implementation.
- (xxii) While identifying CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.
- (xxiii) It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time

**B. General Conditions:**

- (i) The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not do not get mixed.
- (ii) A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.
- (iii) Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a **period of three months** from the date of clearance and details shall be furnished.

- (iv) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.
- (v) Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.
- (vi) Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.
- (vii) Monitoring surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.
- (viii) First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (ix) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.
- (x) Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>2.5</sub> & PM<sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.

- (xi) Provision shall be made for the housing of construction labour (as applicable) 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.
- (xii) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- (xiii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO (if any), from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xiv) A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xv) The proponent shall upload the status of compliance of the stipulated environmental 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 MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM<sub>2.5</sub> & PM<sub>10</sub>), SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.
- (xvi) The environment statement for each financial year ending 31<sup>st</sup> 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
- (xvii) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on

their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.

- (xviii) Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO<sub>x</sub> (from stack & ambient air) shall be displayed at the main gate of the power plant.
- (xix) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xx) The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
- (xxi) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.

4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.

5. The environmental clearance accorded **shall be valid for a period of 5 years** to start operations by the power plant.

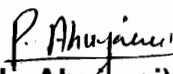
6. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

7. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

9. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

Yours faithfully,

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

**Copy to:**

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary (Environment), Forests and Environment Department Government of Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Maharashtra State Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> & 4<sup>th</sup> Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai - 400 022
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
6. The Chief Conservator of Forests, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Ravishankar Nagar, Bhopal - 462016.
7. The District Collector, Nasik District, Govt. of Maharashtra.
8. The Director (EI), MOEF.
9. Guard file.
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(Dr. P.L. Ahujarai)  
Scientist 'F'