



F.No. J-13012/98/2010-IA. II(T) Pt.
Government of India
Ministry of Environment, Forest and Climate Change

3rd Floor, Vayu Block,
Indira Paryavaran Bhawan, JorBagh Road,
Aliganj, New Delhi-110003

Dated: 05.11.2019

To

The General Manager-Projects
M/s Welspun Energy Madhya Pradesh Ltd.
Welspun House, 7th Floor, Kamala City,
SenapatiBapat Marg, Lower Parel,
Mumbai – 400 013.

Tel:079-25557498; Fax:079-25557177; Email:welspunenergypvtltd@gmail.com.

Sub: 1980 MW (3x660 MW) Coal based Thermal Power Plant at Village Bujbuja and Dokariya, Taluk Barhi and Vijayaraghavgarh, District Katni, Madhya Pradesh by M/s Welspun Energy Madhya Pradesh Ltd.-reg. extension of validity of EC.

Sir,

This has reference to your online application No. **IA/MP/THE/17057/2010** 12.04.2019 and documents submitted vide dated 14.8.2019 for extension of Environmental Clearance dated 1.6.2012 for further period of three years beyond seven years.

2. It has been noted that the Environmental Clearance for 3x660 MW Imported Coal based Thermal Power Project in District Katni, Madhya Pradesh has been issued vide Ministry's letter dated 1.6.2012 which was valid for five years, i.e. till 31.05.2017. As per the EIA amendment Notification dated 14.09.2016, the validity of EC has been increased from five to seven years. As the said EC was valid on the date of publication of notification, the validity automatically gets extended to seven years, i.e. till 31.05.2019.

3. It has been informed that the construction of Thermal Power Project could not be started in the absence of Power Purchase Agreement (PPA) and Financial Closure. The project is expected to be implemented once the PPA is signed and the Financial Closure achieved. Power Purchase Agreement could not be tied up for sale of Power which is one of the main reasons why construction activities of power plant have not been initiated.

4. It has been informed that the infrastructure development such as Boundary Wall and Site Office, Technical Studies and executing R&R activities as approved by Government of Madhya Pradesh have been completed till date. The company has applied to Ministry of Coal for grant of Long term coal linkage under Shakti Scheme on 23.12.2017. The Power Purchase Agreement for 5/7.5% of Net Power executed on 16.08.2011 with Govt. of Madhya Pradesh on Variable Charge basis with term up to de-commissioning of the Plant. Bank Guarantee of Rs.2.97 Crores is deposited to MP Power Management Company Ltd and validity ids being maintained.

5. The expenditure incurred towards project is Rs.112.04 Crores out of total estimated project cost of Rs. 9009.28 Crores which include land acquisition, pre-operative costs and other fixed assets are provide below:

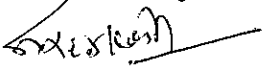
6. The matter was placed before the Expert Appraisal Committee (Thermal Power) in its 27th meeting held on 26.4.2019. In acceptance of the recommendations of the Expert Appraisal Committee in its meeting held on 26.4.2019 and in view of the information/clarifications furnished by you with respect to the above mentioned project, **the Ministry hereby extends the validity of Environmental Clearance dated 1.6.2012 for further period of three years, i.e. till 31.5.2022** subject to following additional conditions:

- i. As proposed, FGD, Low NO_x burners with SCR shall be installed to meet the revised flue gas emission norms.
- ii. The Environmental Clearance issued 1.6.2012 is based on imported coal. Any change in fuel source/quality requires fresh environmental impact assessment studies for appraising incremental resources, impacts and appropriate mitigation measures, thereof.
- iii. Capital budget of 0.5% of capital cost for Greenfield project for implementing activities under Corporate Environment Responsibility as per Ministry's OM dated 01.05.2018, as applicable shall be earmarked and the annual implementation programme along with expenditure shall be submitted. As per the EC, project Cost is Rs.9,009.28 Crores. The details of revised project cost as on date shall submitted to the Ministry within three months.
- iv. Date of financial closure shall be informed to the Ministry. The revised project cost along with details of budget allocated for installation of new pollution control equipment such as FGD, De-NO_x systems to meet revised emission norms vide Ministry's Notification dated 7.12.2015 shall be submitted.
- v. The progress of the construction along with the status of implementation of FGD shall also be informed.

7. All other conditions mentioned in this Ministry's letter of even no. dated 1.6.2012 shall remain the same, as applicable.

This issues with the approval of the Competent Authority.

Yours faithfully,


(Dr. S. Kerketta)
Director, IA.I

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, SewaBhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, PariveshBhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.

4. The Additional Director General of Forests (C), Regional Office (WZ), E-5, KendriyaParyavaranBhawan, E-5 Arera Colony, Link Road-3, Ravi Shankar Nagar, Bhopal – 462016.
5. The Principal Secretary, Department of Housing and Environment, Government of Madhya Pradesh, E-5, Arera Colony, Bhopal, Madhya Pradesh 462016.
6. The Chairman, Madhya Pradesh Pollution Control Board, E-5, Arera Colony, ParyavaranParisar, Bhopal - 462 016, Madhya Pradesh.
7. The District Collector, Government of Madhya Pradesh, Jhinjri, National Highway 7, Katni, Madhya Pradesh-483501.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.


Director, IA.I



BY SPEED POST

J 13012/98/2010-IA.II (T)
Government of India
Ministry of Environment & Forests

Ph: 011-2436 3973
Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003
Dated: 1st June, 2012.

To

M/s Welspun Energy Madhya Pradesh Ltd.
Welspun House, 7th Floor, Kamala City,
Senapati Bapat Marg, Lower Parel,
Mumbai- 400 013

Sub: 3x660 MW Imported Coal Based Thermal Power Plant at villages Bujbuja and Dokariya, in Barhi and Vijayaraghavgarh Taluks, in Katni Distt., in Madhya Pradesh - reg. Environmental Clearance.

Sir,

The undersigned is directed to refer to your letters dated 30.06.2011, 12.08.2011 and 29.09.2011 on the subject mentioned above. The Ministry of Environment & Forests has examined the application.

2. It has been noted that the proposal is for setting up of 3x660 MW Imported Coal Based Thermal Power Plant at villages Bujbuja and Dokariya, in Barhi and Vijayaraghavgarh Taluks, in Katni Distt., in Madhya Pradesh. The proposal earlier submitted was based on domestic coal, but due to non availability of domestic coal, as an interim arrangement, the project proponent desires to go ahead with imported coal from Indonesia. Land requirement will be 1200 acres, which comprises mostly un-irrigated agricultural land (819.10 acres). Out of total land required, 538 acres will be used for main plant; 270 acres for ash disposal; 32 acres will be used for Colony; and 360 acres will be used for green belt. The co-ordinates of the site are at Latitude 23^o54'0.62" N to 23^o55'13.83" N and Longitude 80^o45'21.61" E to 80^o46'44.49"E. There are about 11 reserve/protected forests in the study area, the nearest being Lumri R.F at 1.0 Km. Imported coal will be from Indonesia. Imported coal requirement will be 7.8 MTPA. Coal supply agreement for imported coal has been signed with M/s Oorja Resources India Pvt. Ltd for 6.0 MTPA and M/s PT Batubara Energy Indonesia for 2.0 MTPA. Coal will be imported through Haldia / Paradip or Damara Port. Ash and sulphur contents in imported coal will be 14.0% and 0.4% respectively. The co-ordinates of the ash pond/dyke site are proposed within Latitude 23^o53'2.68"N to 23^o55'13.36"N and Longitude 80^o45'25.52"E to 80^o46'2.95"E. About 1.09 MTPA of ash will be generated of which 0.87 MTPA of ash and 0.22 MTPA of bottom ash will be generated. Fly ash will be supplied to M/s Prism Cement. Water requirement will be 5800 m³/hr and will be sourced from the Bansagar Dam through a pipeline at a distance of

about 10 km from project site. Mahanadi River flows at about 6.0 Km from the site. There are no National Parks, Wildlife Sanctuaries, Heritage sites, Tiger/Biosphere reserves etc. within 10 km of the site. Buffer zone of Bandavgarh Tiger Reserves is at about 10.6 Kms. Public hearing was held on 11.03.2011. Cost of the project will be Rs 9009.28 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 at Para 2 above and others and presentation made before the Expert Appraisal Committee (Thermal Power) in its 34th Meeting held during October 10-11, 2011, by you and your consultant viz. M/s Vimta Labs Ltd., Hyderabad, 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) Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within **six months**.
- (ii) Scheme for implementation for harnessing solar power within the premises of the plant particularly at available roof tops shall be formulated and status of implementation shall be submitted to the Regional Office of the Ministry from time to time.
- (iii) A study shall be undertaken through a reputed Govt. Organization / Agriculture University on the impact on vegetation within 10 km radius of the plant due to fly ash generated and action taken shall be submitted to the Ministry. The study shall be **completed within one year** of operation of the proposed plant.
- (iv) In case source of fuel supply is to be changed at a later stage (now proposed imported coal from Indonesia) the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conducting public hearing may be decided by the Ministry in consultation with the Expert Appraisal Committee.
- (v) A wildlife conservation plan shall be formulated in consultation with the Office of the Chief Wildlife Warden and duly vetted by the concerned Chief Wildlife Warden for immediate implementation. The plan shall have an in-built monitoring mechanism.

- (vi) Provision for installation of FGD shall be provided for future use.
- (vii) Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.
- (viii) A detailed study on chemical composition of coal used particularly heavy metal and radio activity contents shall be carried out through a reputed institute and report shall be submitted to Regional Office of the Ministry. Only after ascertaining its radioactive level shall fly ash be utilized for brick manufacturing or supplied to brick manufacturers.
- (ix) The project proponent shall carry out a long term R&D on Boiler efficiency vis-à-vis large variation on ash content of coal and submit its findings to the Ministry at a later stage.
- (x) One tri-flue stack of 275m height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipments for SO_x, NO_x and PM₁₀. Mercury emissions from stack may also monitored on periodic basis.
- (xi) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.
- (xii) 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.
- (xiii) Utilisation of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time. Fly ash in the mine void shall be used only after carrying hydro-geological study and permission from the DGMS. Fly ash shall not be used for agriculture purpose.
- (xiv) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized ash shall be disposed off in the ash pond in the form of slurry. 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.
- (xv) Ash pond shall be lined with HDP/LDPE lining or any other suitable impermeable media 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. Ash pond water shall be recirculated and reused.

- (xvi) Sulphur and ash contents in the coal to be used in the project shall not exceed 0.4 % and 14 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.
- (xvii) Hydrogeology of the area shall be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case any deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.
- (xviii) No ground water shall be extracted for use in operation of the power plant even in lean season.
- (xix) 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.
- (xx) Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.
- (xxi) Land and Water requirement shall be restricted as per latest CEA norms issued.
- (xxii) COC of 5.0 shall be adopted.
- (xxiii) 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.
- (xxiv) Monitoring surface water quality in the area 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.
- (xxv) Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.

- (xxvi) The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the Regional Office of the Ministry.
- (xxvii) 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.
- (xxviii) Atleast three 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.
- (xxix) A special scheme for upliftment of SC & ST population in the study area shall be formulated and implemented in a time bound manner. The project proponent shall also identify the rights of tribals under existing Laws and ensure its protection and implementation thereof.
- (xxx) In addition marginalized farmers indirectly affected by the project shall be identified and special scheme for sustainable livelihood for these marginalized section of the poor villagers whose sustenance are dependent on the land not owned by them but now proposed to be acquired for the proposed project shall be formulated and implemented.
- (xxxi) R&R of PAPs shall be completed in a time bound manner and before commissioning of the proposed plant.
- (xxxii) The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.
- (xxxiii) CSR scheme shall be undertaken based on need based assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR employment of local youth after imparting relevant training as may be necessary shall be undertaken as committed.
- (xxxiv) An amount of Rs 36.04 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 7.20 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be

undertaken shall be submitted within six month along with road map for implementation.

- (xxxv) It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and 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. The achievements should be put on company's website.
- (xxxvi) Green Belt consisting of 3 tiers of plantations of native species around plant and 100 m width shall be raised. The density of trees shall not less than 2500 per ha with survival rate not less than 80 %.
- (xxxvii) An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the Head of the Organization.

B. General Conditions:

- (i) The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water 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) 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.
- (iv) Storage facilities for auxiliary liquid fuel such as LDO/ 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.
- (v) First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (vi) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. 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.

- (vii) Regular monitoring of ambient air ground level concentration of SO₂, NO_x, PM_{2.5} & PM₁₀ 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.
- (viii) 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.
- (ix) 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>.
- (x) 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.
- (xi) 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_{2.5} & PM₁₀), SO₂, NO_x (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.
- (xii) The environment 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 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.

- (xiii) 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.
- (xiv) 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_x (from stack & ambient air) shall be displayed at the main gate of the power plant.
- (xv) 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.
- (xvi) 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.
- (xvii) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.

5. 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.

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

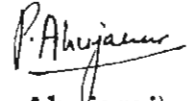
7. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

8. 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.

9. 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, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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), Environment Department, Government of Madhya Pradesh, Bhopal.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Prisar, E-5 Area Colony, Bhopal - 462 016
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
6. The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office(WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Area Colony, Link Road-3, Ravishankar Nagar, Bhopal -462016
7. The District Collector, Katni District, Madhya Pradesh.
8. Guard file.
9. Monitoring file.

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

