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


Sir,

The undersigned is directed to refer to your letters dated 28.07.2011, 21.12.2011 and 06.01.2012 on the subject mentioned above. The Ministry of Environment & Forests has examined the application.

2. It has been noted that the proposal was earlier based on domestic coal but as the same was not available it has been decided to go ahead with imported coal from Indonesia for an interim period until domestic coal is available. The present proposal is for setting up of 2x660 MW Super Critical Imported Coal Based Thermal Power Plant at villages Chhatai, Majholtiya and Umarda, in Kotma Taluk, in Anuppur Distt., in Madhya Pradesh. Land requirement will be 900 acres, out of 540 acres is rainfed agricultural land and 360 acres barren land. Main plant would be located in 470 acres; ash dyke in 120 acres; colony in 35 acres of area and green belt in 275 acres of area will be developed. The co-ordinates of the site are located in between Latitude 23°21’18.39” N to 23°22’24.66” N and Longitude 82°1’43.22”E to 82°3’33.45”E. Ash pond/dyke will be lined with permeability 10⁻⁶ mm/sec. Two families will be displaced and about 227 land losers will be involved due to the proposed power plant. Coal requirement will be 5.27 MTPA in case of imported coal and 6.74 MTPA for Indigenous coal. Ash and sulphur contents in imported coal will be 14% and 0.34% respectively. About 0.59 MTPA of fly ash and 0.15 MTPA of bottom ash will be generated based on imported coal. Stack height will be 275m. Coal from Indonesia will be brought to Dhamra Port in India, from where it will be transported to the site by rail. Water requirement will be 40 MCM and will be sourced from the River Kewai through an intake well pipeline at a distance of 1.0 km from the project site. Water linkage has been granted by Water Resources Department, Govt. of Madhya Pradesh on 06.07.2011. Induced draft cooling
system will be installed. There are four protected / reserve forests in the study area. There are no National Parks, Wildlife Sanctuaries, Heritage Sites, Tiger/Biosphere reserves etc. within 10 km of the site. Public Hearing was held on 16.06.2011. Cost of the project will be Rs. 7273.65 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 40th Meeting held during January 9-10, 2012, by you and your consultant viz. M/s GIS Enabled Environment and Neo-Graphic Centre., Ghaziabad, 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) In case source of fuel supply is to be changed at a later stage (now proposed through 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.

(ii) No further expansion beyond 2x660 MW shall be allowed in the proposed site.

(iii) 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.

(iv) 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 power station.

(v) A wildlife conservation plan shall be prepared/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) Fly ash shall not be used for mine void filling or agricultural purpose.

(x) 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.

(xi) One bi-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 PM$_{2.5}$ & PM$_{10}$. Mercury emissions from stack may also be monitored on periodic basis.

(xii) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm$^3$. Dry Low NO$_x$ Burners shall be installed.

(xiii) 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.

(xiv) Utilisation of 100% Fly Ash generated shall be made from 4$^{th}$ year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.

(xv) 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.

(xvi) The project proponent shall ensure that no drinking water shortage due to drawal of water from Kewai River for agricultural and drinking purpose shall prevail.

(xvii) Ash pond shall be located far away from the low lying area and as submitted by the project proponent at revised location in between Latitude 23°21'S1.022° N to 23°22'20.442°N and Longitude
82°12'35.101"E to 82°12'35.101"E. Ash pond water shall be re-
circulated and utilized.

(xviii) Ash pond shall be lined with HDPE/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.

(xix) Sulphur and ash contents in the coal to be used in the project shall
not exceed 0.5 % and 34 % 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.

(xx) 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.

(xxii) No ground water shall be extracted for use in operation of the power
plant even in lean season.

(xxii) 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.

(xxiii) 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.

(xxiv) Land and Water requirement shall be restricted as per latest CEA
norms issued.

(xxv) COC of 5.0 shall be adopted.

(xxvi) 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.

(xxvii) Monitoring surface water quality and quantity 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.

(xviii) Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.'

(xix) 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.

(x) It shall be ensured that the area drainage is not disturbed due to the proposed project.

(xxi) 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.

(xxii) 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.

(xxiii) 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.

(xxiv) 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.

(xxv) R&R of PAPs shall be completed in a time bound manner and before commissioning of the proposed plant.

(xxvi) 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.
(xxxvii) 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.

(xxxxviii) An amount of Rs 28.00 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 5.60 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.

(xxxxix) It shall be ensured that an in-built monitoring mechanism for the CSR 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. The achievements should be put on company’s website.

(xl) 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%.

(xli) 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, NOₓ, PM₂.₅ & 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 Parishad / 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$_{2.5}$ & PM$_{10}$), SO$_2$, 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 upload 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

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

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,

[Signature]

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, Anuppur District, Madhya Pradesh.
8. The Director (El), MOEF.

[Signature]
Scientist 'F'