



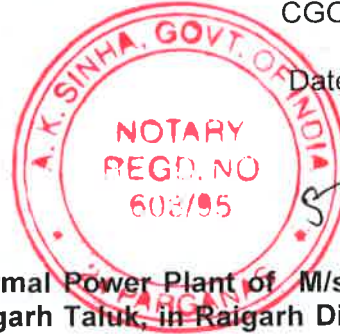
J-13012/22/2008-IA.II (T)
Government of India
Ministry of Environment & Forests

BY SPEED POST

Ph: 011-2436 3963
Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003
Dated: 23rd August, 2011

To

M/s Visa Power Ltd.
HUL Building, 9, Shakespeare Sarani
Kolkata- 700 071.



Sub: 2x600 MW Imported Coal Based Thermal Power Plant of M/s Visa Power Ltd. at villages Dumarpali and Deveri, in Raigarh Taluk, in Raigarh Distt., in Chhattisgarh - reg. Environmental Clearance.

Sir,

The undersigned is directed to refer to your letters dated 10.03.2011 and the subsequent communications dated 23.05.2011 and 11.07.2011 on the subject mentioned above seeking environmental clearance under the provisions of the EIA Notification, 2006 and the communication no. 2116/HO/TS/CECB/2011 dated 3.08.2011 received from the Chhattisgarh Environment Conservation Board.

2. The Ministry of Environment & Forests has examined the application. It has been noted that the proposal is for setting up of 2x600 MW Imported Coal Based Thermal Power Plant at villages Deveri and Dumarpali, in Raigarh Taluk, in Raigarh Distt., in Chhattisgarh. Land requirement will be 780 acres, out of which 438 acres is single crop agricultural land and 342 acres is waste land. The co-ordinates of the site are at Latitude 21°54'18.00" N to 21°55'11.27"N and Longitude 83°16'28.91" E to 83°17'27.23"E. Ash Pond Co-ordinates will be at Latitude 21°54'27.49"N and Longitude 83°16'41.20" E. Imported Coal requirement will be 5.60 MTPA which will be obtained from Indonesia. Ash pond/dyke area will be 250 acres. The co-ordinates of Ash pond/dyke site are at Latitude 21°54'27.49"N to Longitude 83°16'41.20"E. About 1.43 MTPA of fly ash will be generated and 0.36 MTPA of Bottom ash will be generated. 1.18 MPTA fly ash will be supplied to M/s Century Cement Ltd. Water requirement will be restricted to 30 MCM and will be sourced from the Mahanadi River (from Saradih Barrage) through a pipeline at a distance of 30 km from project site. There are no national parks, wildlife sanctuaries, heritage sites, tiger/biosphere reserves etc. within 10 km of the site. Public hearing was held on 27.08.2010. Cost of the project will be Rs 6190.0 Crores.

3. The Expert Appraisal Committee (Thermal) recommended the above proposal. As per the procedure prescribed vide Circular No. J-11013/41/2006-IA.II (I) dated 16.11.2006, the proponent was asked to place the matter before the Board of Directors of Company and submit a written commitment in the form of formal resolution that the violation of the Environment (Protection) Act, 1986 will not be repeated.

4. The Ministry therefore received the resolution passed by the Board of Directors of M/s Visa Power Limited in its meeting held on 08.07.2011 and submitted vide letter No nil dated 11.07.2011 placed at **Annexure-I** of this environmental clearance and the environment policy at **Annexure-II**, adopted by the company as per the resolution passed by the Board of Directors of M/s Visa Power Limited in its meeting held on 8th July, 2011 submitted to the Ministry vide letter dated 11th July, 2011.

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5. 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 19th Meeting held during February 7-8, 2011, by you and your consultant M/s GIS Enabled Environment & 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) Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within **six months**.
- (ii) In case source of fuel supply is to be changed at a later stage (now proposed on imported coal from South Africa) 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.
- (iii) Possibility for harnessing solar power within the premises of the plant particularly at available roof tops shall be examined and status of implementation shall be submitted.
- (iv) Coal transportation to plant site shall be by rail. The project proponent shall take up the matter with the Railways and shall submit action taken and implementation status to the Ministry from time to time.
- (v) Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state govt.
- (vi) 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 and 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.
- (vii) Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry **within three months**.
- (viii) No ground water shall be extracted for use in operation of the power plant even in lean season.
- (ix) 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.
- (x) 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.
- (xi) Water requirement shall be restricted as per CEA norms and COC of 5.0 shall be adopted.
- (xii) 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

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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.



- (xiii) 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.
- (xiv) A well designed rainwater harvesting shall be put in place before commissioning of the plant. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a **period of three months** from the date of this clearance and details shall be furnished. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry **within six months**.
- (xv) 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.
- (xvi) Provision for installation of FGD shall be provided for future use.
- (xvii) The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.
- (xviii) Stack of 275 m height shall be installed and provided with continuous online monitoring equipments for SO_x, NO_x and PM_{2.5} & PM₁₀. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.
- (xix) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.
- (xx) 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.
- (xxi) 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.
- (xxii) 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.
- (xxiii) 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.
- (xxiv) Sulphur and ash contents in the imported coal to be used in the project shall not exceed 0.6 % and 34% respectively at any given time. In case of variation of coal quality at any

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point of time fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.

- (xxv) Green Belt consisting of 3 tiers of plantations of native species around plant and at least 50 m width shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80 %.
- (xxvi) Over and above the green belt, as carbon sink, social forestry shall be carried out in close consultation with the Forests Department. The project proponent shall accordingly identify blocks of land / degraded forests and shall undertake regeneration of degraded forests at a large scale. In pursuance to this the project proponent shall formulate time bound action plan along with financial allocation and shall submit status of implementation to the Ministry **within six months**.
- (xxvii) 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.
- (xxviii) 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.
- (xxix) For the tribal families (if any) living in the area within 5.0 Km of site, affected directly or indirectly by the proposed project, specific schemes for upliftment of their sustainable livelihood shall be prepared with time bound implementation and in-built monitoring programme. The status of implementation shall be submitted to the Regional Office of the Ministry from time to time.
- (xxx) CSR scheme shall be identified based on need based assessment in and around the villages within 5.0 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken.
- (xxxi) An amount of Rs 24.76 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of 4.95 Crores per annum 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.
- (xxxii) 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.
- (xxxiii) The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to being into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non

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compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.

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 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 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.
- (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 dBA 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>.



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- (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) An Environmental Cell comprising of atleast one expert in environmental science / engineering, occupational health and social scientist, shall be created 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 organization and he shall be held responsible for implementation of environmental regulations and social impact improvement/mitigation measures.
- (xii) 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; 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.
- (xiii) 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.
- (xiv) 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.
- (xv) 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.
- (xvi) 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.
- (xvii) 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.

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(xviii) 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.

6. 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.

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

8. 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.

9. 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.

10. 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.

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 Chhattisgarh, Raipur.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, State Env. Conservation Board : Nanak Niwas, Civil Lines, Raipur, Chhattisgarh – 421 001
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, Raigarh District, Chhattisgarh.
8. Guard file / Monitoring File.

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

Signature Attested
on Identification



A. K. Sinha, Notary
Alipore Judges / Police Court, Cal - 27
Regd. No. 608 1995 Govt. of India

2.6 AUG 2011

Identified by me


Advocate

VISA POWER

VISA HOUSE,
8/10, ALIPORE ROAD
KOLKATA - 700 027
Tel : (+91-33) 3011 9000
Fax : (+91-33) 3011 9002
Website : www.visapower.net

CERTIFIED COPY OF A RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF VISA POWER LIMITED IN THE BOARD MEETING HELD AT "VISA HOUSE", 6TH FLOOR, 8/10 ALIPORE ROAD, KOLKATA 700027, ON FRIDAY, 8 JULY 2011



Submission of Commitment for Environment Clearance for 2x600 MW Coal based Independent Mega Power Plant in Villages Dumarpali and Deveri in Raigarh Taluk, in Raigarh District, at Chhattisgarh

"RESOLVED THAT

whereas Ministry of Environment and Forests (MoEF), Government of India has, vide its letter no. no.J-13012/22/2008-IA.II(T) dated 6 July 2011, a copy whereof is circulated to the Directors for reference, communicated that the Competent Authority has recommended the proposal of the Company for grant of Environment Clearance for setting up of 2x600 MW Coal based Independent Mega Power Plant in Villages Dumarpali and Deveri in Raigarh Taluk, in Raigarh District, at Chhattisgarh.

whereas a condition of issue of formal Environmental Clearance, MoEF has advised the Company that the matter relating to violation should be put up before the Board of Directors for consideration of its environment related policy / plan of action as also a written commitment in the form of a formal resolution to be submitted to it to ensure that violation of the Environment Protection Act, etc will not be repeated.

whereas the Company has not wilfully and / or knowingly violated any of the provisions of the Environment (Protection) Act and / or Rules made there under and that there has not been any other prosecution against the Company as regards the violation of the provisions of the Environment (Protection) Act and / or Rules made there under.

RESOLVED FURTHER THAT the Company will not in future, wilfully and / or knowingly violate the provisions of the Environment (Protection) Act and / or the Rules made there under.

Kavari

True Copy
Attested by me
[Signature]
A. K. Saha, Notary
Alipore, Govt. of India

Compared with Original
[Signature]
Advocate



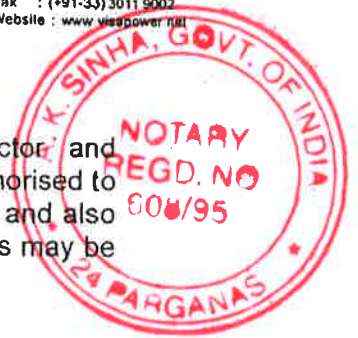
26 AUG 2011

VISA POWER LIMITED

VISA POWER

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8/10, ALIPORE ROAD
KOLKATA - 700 027
Tel : (+91-33) 3011 9000
Fax : (+91-33) 3011 9002
Website : www.visapower.net

RESOLVED FURTHER THAT Mr. Vikas Agarwal, Managing Director, and Mr. Subrato Trivedi, Director – Projects, be and are hereby severally authorised to sign all such papers and documents as may be required in this regard and also submit a copy of this resolution / and or any other document or paper as may be required from time to time with the MoEF and / any other authority."



Certified by



Vikas

Vishambhar Saran
Chairman

Compared with Original

Ar
Advocate

True Copy
Attested by me

A. K. Sinha

A. K. Sinha, Notary
Alipore, Govt. of India

26 AUG 2011



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Adoption of the Environment Policy of the Company

"RESOLVED THAT the Environment Policy as placed before the Board be and is hereby adopted for guiding the Company' environment actions in line with the policy.

RESOLVED FURTHER THAT the Board shall be briefed periodically and a compliance report shall be submitted to the Board at regular intervals, stating status of compliance, with the said Environment Policy, by the Company."

Certified by

[Signature]
Vishambhar Saran
Chairman



Compared with Original

[Signature]
Advocate

True Copy
Attested by me

[Signature]

A. K. Saha, Notary
Alipore, Govt. of India

2.6 AUG. 2011

