

Government of Maharashtra

SEAC 2009/CR16/TC2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Dated: 18th November, 2009

To,
M/s. Desh Bhakt Ratnappa Kumbhar Panchganga SSK Ltd,
Ichalkaranji, Kolhapur

Sub: -30 MW Cogeneration Project at Desh Bhakt Ratnappa Kumbhar Panchganga SSK Ltd, Ichalkaranji, Kolhapur - Environmental clearance regarding.

Sir,

This has reference to your communication no. SREL/Panchganga/Co-gen/09-10 dated 4th July, 2009 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee in its 12th meeting & recommended for prior Environment Clearance to State Level Environment Impact Assessment Authority (SEIAA). Proposal was considered by State Level Environment Impact Assessment Authority in its 16th meeting held on 7th November, 2009.

2. It is noted that the proposal is for grant of environmental clearance for 30 MW Cogeneration Project at Desh Bhakt Ratnappa Kumbhar Panchganga SSK Ltd, Ichalkaranji, Kolhapur. The project considered by SEAC under Category 'B2' of EIA Notification 2006, and screening category is I(d).

Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below:

Name of the Project: Environmental clearance for 30 MW Cogeneration Project at Desh Bhakt Ratnappa Kumbhar Panchganga SSK Ltd, Ichalkaranji, Kolhapur.

Project Proponent: M/s. Desh Bhakt Ratnappa Kumbhar Panchganga SSK Ltd, Ichalkaranji, Kolhapur.

Location of the project: Ichalkaranji, Tal - Hatkanangale Dist - Kolhapur.

Latitude: 17° 04' N

Longitude: 76° 14' E

Type of Project: Power project; Power Generation: 30 MW co-generation;

Total Plot Area: 8000 sq. m.

Built up area: 2000 sq. m.

Estimated cost of the project: Rs. 94.19 cr



21/9/2009
msl

[Signature]

Water Requirement: 574 m³/day ; source : Sugar factory scheme.

Wastewater Generated: Effluent generated from sugar factory shall be 46 m³/day (Consent to establishment-16 m³/day)

Process:

Co- generation will be done through steam turbines of double extraction condensing route (DEC). Saving of bagasse has become possible with modern instrumentation. It is proposed to install machinery and equipment in the power manufacturing process -

- 1 Boiler of 140 TPH capacity and 67 bar steam pressure boilers at 485 degree C temp and using steam turbines for T.G set.
- The surplus power is generated by the steam required for process, passing through Turbo alternator set of 30 MW working rating of DEC type suitable for boiler steam parameters and 11KV, 3 phases in 50 cycles per second generation volt.

Fuel: Bagasse

Bagasse requirement: 60 MT/Hr

Boiler: 1 of 140 TPH (instead of existing 7 of total capacity 157 TPH)

Comparison of boilers:

Sr. No.	Particulars	Old Boiler	New Boiler
1	Boiler capacity	157 TPH	140 TPH
2	Working pressure	21 Bara	67 Bara
3	Fuel used	Bagasse	Bagasse
4	Calorific value	2270 kcal/kg	2270 kcal/kg
5	Moisture (%)	50%	50%
6	Manner of feeding	Spreaderstroker	Spreaderstroker
7	Heat transfer factor	Less than 70 %	More than 70 %
8	Quality of feed water	Less	DM water
9	Bagasse consumption	78.5 TPH	60 TPH

Solid waste generation:

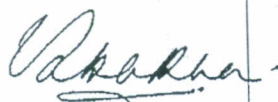
- Fly ash: 21.6 MT/day Disposal: sold to brick manufacturers, composting.

Green belt development: 2400 sq. m. area for green belt. Total 1500 trees shall be planted

Air pollution control Measures:

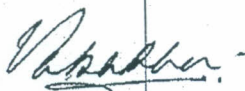
- Electrostatic precipitator will be installed to reduce dust emission level & RCC Chimney is of the height of 75 meters.
- The project proponent shall install regular monitoring system for SPM and SO₂.
- In place of 7 Existing boilers, provision of one new will be a better idea.
- Stacks being less in numbers but more in height, better dispersion will be achieved.
- Presently only mechanical dust collector is in place, Electrostatic precipitator will be introduced which will arrest more dust from escaping into the atmosphere.

Environmental Management Plan: EMP capital cost will be Rs. 4 crores and recurring cost will be Rs. 50 Lakhs

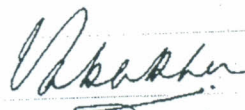


3. The proposal has been considered by SEIAA in its 16th meeting dated on 7th November, 2009 & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :-

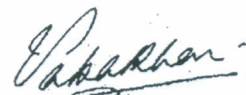
- (i) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
- (ii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (iii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (iv) No fuel other than mentioned above including coal shall be used without obtaining proper permission.
- (v) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (vi) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (vii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (viii) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (ix) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (x) The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xi) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xii) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xiii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xiv) Project Proponent shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xv) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003. Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.



- (xvi) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xvii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xviii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xix) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xx) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-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 reported to the MPCB & this department
- (xxi) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://envvis.maharashtra.gov.in>
- (xxii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (xxiii) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxiv) The proponent shall upload the status of compliance of the stipulated EC 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, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the factory in the public domain.
- (xxv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxvi) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- (xxvii) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.



4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations by the power plant.
6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
7. 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.



(Valsa R Nair Singh)

Secretary, Environment
department & MS, SEIAA

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
3. The Secretary, Energy department, Govt. of Maharashtra, Mantralaya, Mumbai - 400032., Maharashtra
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Kolhapur.
7. Collector, Kolhapur.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

9. Director(TC-1), Dy. Secretary(TC-2),Scientist-1,Environment department
10. Select file (TC-3).