State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-302004 Phone: 0141-2705633, 2711329 Ext. 361

No: F1(4)/SEIAA/SEAC-Raj/Sectt/Project/ Cat.8(b)B1(339) /10-11

Jaipur, Dated:

2 9 APR 2011

To,

Secretary,

Jodhpur Development Authority, Jodhpur.

AFE/ACP.

Sub: EC for "Vivek Vihar"-A Residential Scheme being developed by Jodhpur Development Authority, Near Village-Sangariya & Kudi Bhagtasani, Tehsil & District-Jodhpur

Sir,

This has reference to your application dated 10.1.11 seeking environmental clearances for the above project under EIA Notification 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification 2006 on the basis of the mandatory documents enclosed with the application viz. the questionnaire, EIA, EMP and additional clarifications furnished in response to the observation of the State Level Expert Committee Rajasthan, in its meeting held on 28th March, 2011.

2. Brief details of the Project:

 Item No. in the list of Schedule / Category:

8(b), B1

MUSD

2. Location of Project

Village-Sangaria & Kudi Bhagtasani, Jodhpur

3. Plot Area

Area 50.106 lac sq. m. (501.06 hectares) Total Plot Area: 30.32 lac sq. m. Built up Area: 34.42 lac sq. m.

No well are proposed to drill at proposed site

Product & Capacity

Statement of land use pattern to be used under different heads:-

S.N.	Particular	Area (in sq. ft.)	Percentage
1	Residential	21661978	42.46
2	Facility	755057	1.48
3	Institutional	1897846	3.72
4	Commercial & Informal Sector	6280239	12.31
5	Road Area	18728480	36.71
6	Park (Greenbelt)	1693777	3.32
Total		51017377	100
Green	Belt		
a.	Plantation along Road Divider & both ends of road	4040576	7.92
b.	Parks	1693777	3.32
		5734353	11.24

Water requirement & source

Plan

Environment Management

7.

9 million liters (or 15 KLD for 2 years); Source: PHED

After the construction of residential colony 7.5 MLD water will be required.

Fuel & Energy 15 MW; Source : J'

15 MW; Source : JVVN Ltd.

An annexure-XVII has been enclosed indicating details of Environment

Management Plan.

The proposed sewerage network of the scheme area will be connected to the already laid sewer in Salawas village. At present a 50 MLD capacity STP is under construction at Salawas which will have ultimate capacity of 200 MLD

3. The SEAC Rajasthan after due considerations of the relevant documents submitted by the project proponent and additional clarifications/documents furnished to it have recommended for Environmental Clearance with certain stipulations. The SEIAA Rajasthan after considering the proposal and recommendations of the SEAC Rajasthan hereby accord Environmental Clearance to the project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent mendinents, subject to strict compliance of the terms and conditions as follows:

PART A: SPECIFIC CONDITIONS

CONSTRUCTION PHASE

The PP shall ensure that, "Consent to Establish" shall be obtained from RPCB before start of any construction work at the site.

The STP being the control on important natural resource need to be validated /proved for design and installation from reputed agency / institutions such as IIT / NIT / NEERI etc. prior to submitting application ii.

to RPCB for consent to establish / operate. For conservation of electricity and to reduce energy losses, the management shall ensure that the electrical voltage is stepped down from 132 KV to 33/11 KV and distributed at this level and finally brought to 440 iii. volts. The PP shall ensure obtaining prior permission from the SE, JVVNL regarding power demand of the project. Adequate earthing and electrical safety measures shall be implemented as per norms

For better environmental safeguards, the PP shall provide sufficient number of transformers of adequate

capacities for environmentally sound power distribution. The PP shall provide a System for composting of MSW within the area and its use/disposal or atleast ensure primary segregation of waste within the area prior to disposal at the MSW site.

The PP shall provide a System for BMW management.

The PP shall take measures to ensure 10% reduction of overall power demand which shall be met by solar vi. vii.

system including the provision of solar water heating /chilling etc.

Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, viii. crèche etc. The housing may be in the form of temporary structures to be removed after the completion of

All required sanitary and hygienic measures shall be in place before starting construction activities. The safe disposal of waste water and solid waste generated during the construction phase shall be ensured. ix.

Adequate drinking water facilities shall be provided for construction workers at the site.

Provisions shall be made for the supply of fuel (kerosene or cooking gas); utensils such as pressure cookers X. xi.

All the labourers engaged for construction shall be screened for health and adequately treated before xii. engaging them to work at the site.

For disinfection of waste water, appropriate tertiary treatment shall be given.

All the topsoil excavated during the construction shall be stored for use in horticulture/landscape xiii. xiv. development within the project site.

Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of the XV. people, only in approved sites with the approval of competent authority.

Soil and ground water samples will be tested to ascertain that, there is no threat to the ground water quality xvi.

by leaching of heavy metals and other toxic contaminants.

Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they do not leach xvii.

The diesel generator sets to be used during the construction phase shall be low-sulphur-diesel type and shall xviii.

conform to Environment (Protection) Rules for air and noise emission standards.

Vehicles hired for bringing construction material and labourers to the site shall be in good conditions and shall conform to applicable air and noise emission standards and shall be operated during non-peak/approved xix.

All measures as suggested in EMP during construction & post construction phase will be adopted. As envisaged under the EMP, a total amount of Rs. 1656.0 lacs towards initial capital cost and Rs. 36.00 lacs XX. towards annual recurring cost for implementing various environmental protection measures, such as sewerage line and pumping station, green belt development, solar energy utilization, landscaping solid waste management during construction etc.

Towards Corporate Social Responsibility, the PP shall earmark Rs. 150.0 lacs as initial Capital Cost and Rs. 15.0 lacs per annum as recurring cost. The expenditure on these activities shall be reflected in the books of xxi. account when presented for auditing of accounts. Detailed action plan of CSR activities shall be submitted

by the PP to RSPCB at the time of applying for "Consent to Establish".

Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. xxii.

Fly ash shall be used as building material in the construction as per the provisions of Fly Ash notification of September, 1999 and amended as on August, 2003 (The above condition is applicable only if the project is xxiii. within 100 km of Thermal Power Station).

Ready mixed concrete must be used in building construction. xxiv.

Storm water control and its re-use as per CGWA and BIS standards for various applications.

Water demand during construction shall be reduced by the use of pre-mixed concrete, curing agents and XXV. xxvi. other best practices.

- xxvii. Permission to draw ground water, if any, shall be obtained from the CGWA/CGWB prior to construction/ operation of the project.
- xxviii. Separation of grey and black water shall be done by the use of dual plumping line for separation of grey and black water.
- xxix. Treatment of 100% grey water by decentralized treatment shall be done.
- xxx. Fixtures for showers, toilet flushing and drinking shall be of low flow either by use of aerators of pressure reducing devices or sensor based control.
- xxxi. Use of glass may be reduced by up to 40% to reduce the load in air-conditioning and electricity consumption. If necessary, use high quality double glass with special reflective coating windows.
- xxxii. Roofing shall meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- xxxiii. Adequate measures shall be taken to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.
- xxxiv. Opaque walls shall meet prescriptive requirement as per Energy Conservation Building Code for all air-conditioned spaces, whereas, for non-air-conditioned spaces, by use of appropriate thermal insulation material to fulfill the requirement.
- xxxv. A First Aid Room will be provided in the project both during construction and operation of the project.
- xxxvi. Any hazardous waste generated during construction phase shall be disposed off as per applicable rules and norms with necessary authorization of the Rajasthan Pollution Control Board.
- xxxvii. Regular supervision and other measures for monitoring shall be in place throughout the construction phase, so as to avoid nuisance to the surroundings.
- xxxviii. Guidelines issued by concerned ministry for water scarce area should be implemented.
- xxxix. Review and revise the requirement of DG set capacities for 100% power back up through to optimization of power back up in case of power failure and emergency.
 - xl. The local inhabitants of surrounding villages may be provided access through the connecting roads passing in the project area.
 - xli. Water bodies areas in the project area will be kept as such and developed as water bodies only.
 - xlii. The PP shall submit the detailed information to SEIAA for adhering to clause for reserving 5 % plots to weaker sections of society.
 - xliii. The PP shall review and specify employment opportunities (direct /indirect numbers) to local persons.
 - xliv. A copy of the EIA /EMP Report of this Project shall be submitted by the consultant to the Q.C.I.
 - xIv. The consultant shall submit an affidavit regarding current status of their application for QCI / NABET accreditation for EIA consultant organization in terms; number of sectors applied for, number of sectors approved in category "A" and "B", number of FAE approved, number of sectors suspended if any and other relevant information etc.
- xlvi. For any litigation against this project in any court, the sole responsibility will be of the PP.

II OPERATION PHASE

- i. An independent expert shall certify the installation of the Sewage Treatment Plant (STP) and a report in this regard shall be submitted to the RPCB, before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards of the Rajasthan State Pollution Control Board.
- For conservation of electricity and to reduce energy losses the management shall ensure that the electrical voltage is stepped down from 33 KV to 11 KV and distributed at this level and finally brought to 440 volts.
- iii. Rain Water harvesting (RWH) for roof run-off and surface run-off, as plan submitted shall be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The RWH plan shall as per GOI manual
- iv. The solid waste generated shall be properly collected & segregated before disposal to the City Municipal Facility. The in-vessel bio-conversion technique may be used for composting the organic waste.
- Any hazardous waste including biomedical waste shall be disposed of as per applicable Rules & norms with necessary approvals of the Rajasthan State Pollution Control Board.
- vi. The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open space inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.
- vii. The D. G. sets to be operated with stack height as per RPCB norms.
- viii. Incremental pollution loads on the ambient air quality noise and water quality shall be periodically monitored after commissioning of the project.
- ix. Application of solar energy shall be incorporated to illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the apartments shall be provided.
- x. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking shall be fully internalized and no public space shall be utilized.

xi. Ambient air quality monitoring stations shall be set up in consultation with RPCB in the down wind direction as well as where maximum ground level concentration of PM10 & PM25, SOx, NOx, CO are anticipated.

xii. A Report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology, R & U Factors etc. Quantify energy saving measures.

The PP shall ensure implementation of fire fighting plan.

xiv. The PP shall abide by the provisions relating MSW handling and management rules

xv. Proper system of channelizing excess storm water shall be provided.

xvi. The power factor shall be maintained near unity.

- xvii. A balance sheet certified by a Authorized Financial Expert to clearly indicate the provision made / amount spent for EMP/ERP/CSR/ Safety/ Legal Obligations etc to be enclosed in the six monthly report to be submitted to RPCB.
- Trees and shrubs of local species shall be planted to allow habitat for birds with appropriate distance from xviii. the boundary.

No puzzle parking shall be allowed. xix.

Re-cycled water to match standards for cooling water system.

xxi. Adequate measures shall be taken to prevent odor from solid waste processing and STP.

xxii. Use of Sensor based urinals/tabs for commercial areas will be made.

xxiii. For Horticulture, sprinkler system should be adopted.

xxiv. For Landscaping, use of native species along with ornamental species should be adopted. The PP shall maintain an inventory of type of trees / shrubs planted along with the year of plantation and proper

xxv. The PP shall review and specify employment opportunities (direct /indirect numbers) to local persons.

xxvi. The SEIAA, Rajasthan reserves the right to add new conditions, modify/annual any of the stipulated conditions and/or to revoke the clearance if implementation of any of the condition stipulated by SEIAA, Rajasthan or any other competent authorities is not satisfactory.

xxvii. PP would be liable for violations of provisions in the EIA Notification dt. 14.09.2006 and subsequent

amendments and circulars issued afterwards by the MoEF.

PART B: GENERAL CONDITIONS

- The environmental safeguards contained in Form 1-A shall be implemented in letter and spirit.
- Six monthly monitoring reports shall be submitted to Rajasthan and Rajasthan State Pollution Control Board.
- 3. Officials of the RPCB, who would be monitoring the implementation of environmental safeguards, shall be given full cooperation facilities and documents/data by the PP during their inspection. A complete set of all the documents submitted to SEIAA, Rajasthan shall be forwarded to the DoE, Rajasthan and Rajasthan State Pollution Control Board.

4. In case of any change(s) in the scope of the project, the PP requires a fresh appraisal by SEIAA/SEAC,

5. The SEIAA/SEAC, Rajasthan reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act-1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

6. All the other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (protection) Act,1972 etc. shall be obtained, as may be applicable, by PP from the competent authority.

7. The PP shall ensure advertising in at least two local news papers widely circulated in the region, one of which shall be in vernacular language that, the project has been accorded environmental clearance and copies of the clearance letters are available with SEIAA, Rajasthan and the Rajasthan State Pollution Control Board and may also be seen on the website of the Board at www.rpcb.nic.in. The advertisement shall be made within 7(seven) days from the date of issue of the environmental clearance and a copy shall also be forwarded to the SEIAA, Rajasthan and Regional Office, Jaipur(S) of the Board.

- These stipulations would also be enforced amongst the others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification'06.
- Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the
 proponent, if it was found that construction of the project has been started without obtaining
 environmental clearance.
- 10. Environment clearance is subject to final order of the Honb'le Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition(Civil) No. 460 of the year 2004 as may be applicable to this project.

Yours faithfully,

(Sankatha Prasad) Member Secretary SEIAA Rajasthan

Copy to following for information and necessary action:

 Secretary, Ministry of Environment and Forest, Govt. of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.

2. Principal Secretary, Environment Department, Rajasthan, Jaipur.

3. Shri S.C. Derashri, Chairman, SEIAA Rajasthan, 90, Geejgarh Vihar, Hawa Sarak, Jaipur.

4. Shri R.S. Bhandari, Member, SEIAA Rajasthan, 2- Museum Road, Ram Niwas Bagh, Jaipur.

5 Member Secretary, Rajasthan State Pollution Control Board, Jaipur for information & necessary action and to display this sanction on the website of the Rajasthan State Pollution Control Board, Jaipur.

Secretary, SEAC Rajasthan.

- The CCF, Regional Office, Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow-226 020.
- IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

M.S. SEIAA (Rajasthan)