

State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-502004

Phone: 0141-2705633, 2711329 Ext. 361

No: F1(4)/SEIAA/SEAC-Raj/Sectt/Project/Cat 8(a)B/(410)/11-12

Jaipur, Dated: **29 MAR 2012**

To,

Poornima University,
ISI-6, SitaPura Industrial Area,
Goner Road,
Jaipur

Sub: EC for Poornima University, Jaipur. At village Ramchandrapura, Tehsil - Sanganer, Dist. Jaipur, Rajasthan.

Sir,

This has reference to your application dated 11.10.11 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 23/24.2.12.

2. Brief details of the Project:

1.	Category / Item No. (in Schedule):	8(a)B																																																						
2.	Location of Industry/Project	Poornima University, Jaipur. At Village Ramchandrapura, Tehsil- Sangner, dist. Jaipur, Rajasthan																																																						
3.	Total Area	1. Total Plot Area 131028.63 Sq.M 2. Built up Area 148032.13 Sq.M 3. Permissible Ground Coverage 35% (45860.02 Sq.m) 4. Utilized Ground Coverage (22.85%) 29940.04 Sq.m 5. Permissible FAR 1.00, 131028.63 Sq.m (Area Utilized= 18425.71 Sq.m) (0.904) 6. Parking Details: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S.No.</th> <th>Description/Parking required</th> <th>Parking provided</th> <th>ECU</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cars, 50% 1748=874</td> <td>878</td> <td>878</td> </tr> <tr> <td>2</td> <td>Tow Wheeler 40%</td> <td>2242</td> <td>747</td> </tr> <tr> <td>3</td> <td>Cycles 10%</td> <td>942</td> <td>188</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total parking provided</td> <td style="text-align: center;">=</td> <td style="text-align: center;">1813</td> </tr> </tbody> </table>			S.No.	Description/Parking required	Parking provided	ECU	1	Cars, 50% 1748=874	878	878	2	Tow Wheeler 40%	2242	747	3	Cycles 10%	942	188	Total parking provided		=	1813																																
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5.	Expected Cost:	Total project cost Rs. 13,366 lacs																																																						
6.	Water Requirement & Source	(1) Total requirement of Water 1047 KLD (2) Source:- Ground water (435 KLD) and Recycled water (612KLD)																																																						
7.	Fuel & Energy:-	(1) The total power demand of the project will be 3225 KVA, which shall be met through power grid of Jaipur Vidyt Vitaran Nigam Ltd. (2) To supplement above during power failure, it is proposed to provide 6 DG sets of capacity 2 x 125 KVA, 3 x 500 KVA and 250 KVA totaling to 2000 KVA.																																																						
8.	Environment Management Plan (Amount in Lacs Rs.)	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Capital Cost</th> <th>Recurring Cost</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>STP</td> <td>100</td> <td>18</td> </tr> <tr> <td>2</td> <td>Landscaping</td> <td>30</td> <td>4</td> </tr> <tr> <td>3</td> <td>Ground water recharge structure</td> <td>30</td> <td>1</td> </tr> <tr> <td>4</td> <td>Acoustic enclosure</td> <td>10</td> <td>-</td> </tr> <tr> <td>5</td> <td>Dual plumbing system</td> <td>50</td> <td>2</td> </tr> <tr> <td>6</td> <td>Solar energy utilization optimization</td> <td>30</td> <td>3</td> </tr> <tr> <td>7</td> <td>Energy efficient lighting</td> <td>20</td> <td>2</td> </tr> <tr> <td>8</td> <td>Solid waster management</td> <td>5</td> <td>3</td> </tr> <tr> <td>9</td> <td>Efficient fixtures</td> <td>30</td> <td>3</td> </tr> <tr> <td>10</td> <td>Monitoring of Air, Water, Noise & Soil</td> <td>-</td> <td>3</td> </tr> <tr> <td>11</td> <td>Insulation of walls & roof</td> <td>20</td> <td>-</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total</td> <td style="text-align: center;">325</td> <td style="text-align: center;">39</td> </tr> </tbody> </table>	S. No.	Description	Capital Cost	Recurring Cost	1	STP	100	18	2	Landscaping	30	4	3	Ground water recharge structure	30	1	4	Acoustic enclosure	10	-	5	Dual plumbing system	50	2	6	Solar energy utilization optimization	30	3	7	Energy efficient lighting	20	2	8	Solid waster management	5	3	9	Efficient fixtures	30	3	10	Monitoring of Air, Water, Noise & Soil	-	3	11	Insulation of walls & roof	20	-	Total		325	39		
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Note: - Proposed provision of Rs. 100 lacs for CSR activities is reflected separately.

		Total provision proposed for CSR - Rs. 100 lacs.
9	CSR Activities	
10	Green Belt Plantation	(1) It is proposed to plant 1600 large trees in additional to shrubs and other small plants in and outside of the plot area. (2) Park and garden will be developed in the project area. (3) Trees will be planted along both sides of the road and public area will be landscaped.

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 amendments, subject to strict compliance of the terms and conditions as follows:

PART A: SPECIFIC CONDITIONS

I. CONSTRUCTION PHASE

- (i) Consent to Establish" shall be obtained from RPCB before start of any construction work at the site.
- (ii) For conservation of electricity and to reduce energy losses the management should 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. The PP shall ensure to obtain permission from the SE, JVVNL regarding power demand.
- (iii) The PP shall provide a System for composting of MSW within the campus and its use/disposal.
- (iv) The PP shall provide a System for BMW management.
- (v) The PP shall abide by NAC/ AICTE guidelines for setting up the Institute and ensure its follow up.
- (vi) Two STPs of 350 KLD capacity shall provided based on RBC technology. Provision for expansion in the capacity of STP shall be kept to cope up with the increase in number of students/staff members.
- (vii) The PP shall use proper systems for rain water harvesting.
- (viii) The PP shall take measures to ensure 10% reduction of overall power demand which should be met by solar system. In this regard solar heaters on terrace top of all hostels and solar street lighting may be provided.
- (ix) The PP shall review and specify employment opportunities (direct / indirect numbers) to local persons.
- (x) Rs. 325.00 lacs as capital cost and Rs. 39.00 lacs as annual recurring cost for various activities under Environmental Management Plan including the provision for pollution control and monitoring shall be earmarked by the PP and suitable monitoring provisions will be made in the books of accounts.
- (xi) As envisaged, the PP shall ensure implementation of various activities under CSR, with a total provision of Rs. 100.00 lacs for capital expenses. Detailed scheme for implementation of CSR activities out of above provision shall be drawn and submitted to RSPCB along with application seeking consent to establish.
- (xii) The PP shall ensure implementation of fire fighting plan as per NBC Code requirements for Educational Institutions.
- (xiii) 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xiv) 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 should be ensured.
- (xv) Adequate drinking water facilities shall be provided for construction workers at the site.
- (xvi) Provisions should be made for the supply of fuel (kerosene or cooking gas); energy saving utensils to the labourers.
- (xvii) All the labourers engaged for construction should be screened for health and adequately treated before engaging them to work at the site.
- (xviii) For disinfection of waste water, appropriate tertiary treatment may be given.
- (xix) All the topsoil excavated during the construction should be stored for use in horticulture / landscape development within the project site.
- (xx) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of the people, only in approved sites with the approval of competent authority.
- (xxi) 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 into the ground water.
- (xxii) The diesel generator sets to be used during the construction phase shall be low- sulphur-diesel type and should conform to Environment (Protection) Rules for air and noise emission standards.

- (xxiii) Vehicles hired for bringing construction material and labourers to the site shall be in good conditions and should conform to applicable air and noise emission standards and should be operated during non-peak/approved hours.
- (xxiv) Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.
- (xxv) 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 within 100 km of Thermal Power Station).
- (xxvi) Ready mixed concrete shall be used in building construction.
- (xxvii) Storm water control and its re-use as per CGWA and BIS standards for various applications.
- (xxviii) Water demand during construction should be reduced by the use of pre-mixed concrete, curing agents and other best practices.
- (xxix) Permission to draw ground water shall be obtained from the CGWA / CGWB prior to construction/operation of the project.
- (xxx) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xxxi) Treatment of 100% grey water by decentralized treatment should be done.
- (xxxii) Adequate measures shall be taken to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.
- (xxxiii) A First Aid Room will be provided in the project both during construction and operation of the project.
- (xxxiv) Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary authorization of the Rajasthan Pollution Control Board.
- (xxxv) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc as per National Building Code 2005 including protection measures from lightning etc.
- (xxxvi) Regular supervision of the above and other measures for monitoring should be in place through out the construction phase, so as to avoid nuisance to the surroundings.
- (xxxvii) Approval from competent authority shall be obtained for building plans
- (xxxviii) Guidelines issued by concerned ministry for water scarce area may be followed.
- (xxxix) Recalculate MSW quantity and revise disposal proposal. The information in this regard may be communicated to SEIAA within 15 days of issue of letter of environmental clearance.
- (xi) Composting of biodegradable waste shall be carried out within the campus.
- (xli) Provision of solar water heating /chilling etc shall be explored.
- (xlii) 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.

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.
- ii. For conservation of electricity and to reduce energy losses the management should 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 top run-off and surface run-off, as planned shall be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The RWH plan should 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.
- v. 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 should be suitably landscaped and covered with vegetation of indigenous variety.
- vii. The D.G. sets shall 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. Install dual plumbing system to ensure maximum recycling of water

- x. 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.
- xi. Use of glass may be reduced by up to 40% to reduce the electricity consumption and load in air-conditioning. If necessary, use high quality double glass with special reflective coating windows.
- xii. Roof shall meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- xiii. Opaque walls should 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.
- xiv. Application of solar energy should 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 should be provided.
- xv. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- xvi. A Report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, Environment Management Plan & U Factors etc. Quantify energy saving measures.
- xvii. Proper system of channelizing excess storm water shall be provided.
- xviii. The power factor should be maintained near unity.
- xix. Trees and shrubs of local species should be planted to allow habitat for birds with appropriate distance from the boundary.
- xx. Environment Management Plan-cycled water to match standards for cooling water.
- xxi. Adequate measures should be taken to prevent odor from solid waste processing and STP.

PART - B. GENERAL CONDITIONS

1. Any change in mining technology/scope of working shall not be made without prior approval of the SEIAA.
2. Any change in the calendar plan including excavation, quantum of mineral and waste shall not be made.
3. Periodic monitoring of ambient air quality shall be carried out for PM_{10} , $PM_{2.5}$, SPM, SO_2 and NO_2 monitoring. Location of the stations (minimum 6) shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring shall be decided in consultation with the Rajasthan State pollution Control Board (RPCB). Six monthly reports of the data so collected shall be regularly submitted to the RPCB/CPCB including the MoEF, Regional office, Lucknow.
4. Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with earplugs/muffs.
5. Industrial waste water (workshop and waste water from the mine) shall be properly collected & treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May '93 and 31st December 1993 (amended to date). Oil and grease trap shall be installed before discharge.
6. Personnel working in dusty areas shall wear protective respiratory devices they shall also be provided with adequate training and information on safety and health aspects.
7. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
8. The project authorities shall inform the RPCB and the Regional office of MoEF located at Lucknow as well as to the SEIAA regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
9. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the RPCB and the Regional office of MoEF located at Lucknow.
10. The RPCB and MoEF, Regional Office, Lucknow shall monitor compliance of the stipulated conditions. The project authorities shall provide a set of a filled in questionnaire and Environment Management Plan/Environment Management Plan report to them and extend full cooperation to the above office(s) by furnishing the requisite data/information/monitoring reports.
11. Six monthly compliance reports shall be submitted to Ministry of Environment and Forest, Govt. of India, Regional Office, Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow, SEIAA, Rajasthan and Rajasthan State Pollution Control Board.
12. A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom suggestions/representations were received while processing the proposal.

13. The RPCB shall display a copy of the clearance letter at the Regional Office, District Industry Center and Collector/Tehsildar's office for 30 days.
14. 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.
15. 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.
16. The above conditions will be enforced, inter alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 the Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act 1986 and the Public Liability Insurance Act 1991(all amended till date) and rules made hereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Rajasthan and any other Court of law relating to the Subject Matter.
17. Any appeal against this Environmental Clearance shall lie with the National Environmental Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.
18. 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.
19. 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.
20. 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 Environment Management Plan Notification'06.
21. 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.
22. Environment clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Environment Management Plan. 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:

1. Secretary, Ministry of Environment and Forest, Govt. of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.
2. Addl. Chief Secretary, Environment Department, Rajasthan, Jaipur.
3. Smt. Alka Kala, Chairman, SEIAA, Rajasthan, 69-A, Bajaj Nagar Enclave, Jaipur
4. Shri Moti Lal Daima, Member, SEIAA, Rajasthan, 48/9, Moti Path, Mansarovar, 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.
6. Secretary, SEAC Rajasthan.
7. The CCF, Regional Office, Ministry of Environment & Forests, RQ(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. Environment Management Plan- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Nodal Officer (Departmental Website), Department of Environment, Government of Rajasthan, Jaipur with the request to upload the copy of this environmental clearance on the website.

M.S. SEIAA (Rajasthan)