

State Level Environment Impact Assessment Authority, Rajasthan

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

File No. F1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat8(a)B2(900)14-15

Jaipur, Dated:

31 JUL 2014

To,

M/s. Pearl Construction & Developers,
207, IInd Floor, Samriddhi Complex,
Opp. Krishi Anaz Mandi Gate, Sector - 11,
Udaipur - 313002.

Sub: :- E.C. for Proposed Group Housing Project "Krishnangan" at Plot No- 1, Khasra No- 464,465,466min,467,2479/466, Revenue Village Manva Khera, Udaipur, Rajasthan and Provision of E.W.S/LIG at Plot No- 1 Khasra No- 2640 to 2644 Village – Debari, Distt- Udaipur Rajasthan

This has reference to your application dated 24.04.14 environmental clearance for the above project under Environment Impact Assessment Notification 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification 2006 on the basis of the mandatory documents enclosed with the application viz. the questionnaire, Environment Management Plan and additional clarifications furnished in response to the observation of the State Level Expert Appraisal Committee Rajasthan, in its meeting held on 26-27.06.14

2. Brief details of the Project:

1.	Category / Item no.(in Schedule):	Cat. 8 (a)B2			
2.	Location of Project	at Plot No- 1, Khasra No- 464,465,466min,467,2479/466, Revenue Village Manva Khera, Udaipur, Rajasthan and Provision of E.W.S/LIG at Plot No- 1 Khasra No- 2640 to 2644 Village – Debari, Distt- Udaipur Rajasthan			
3.	Project Details	S. No.	Particulars	Group Housing Project (GHP)	E.W.S
		1.	Total plot area	8845.26 Sq. m.	1146.93 Sq. m.
		2.	Built up area	37086.00 Sq. m.	3375.00 Sq. m.
		3.	Achieved FAR	2.51 (22210.00 Sq. m)	1.953 (2240.00 Sq. m.)
		4.	Achieved Ground coverage	34% (2952.00 Sq. m.)	33% (378.48 Sq.m)
		5.	Achieved height	27 m (up to Terrace Floor)	24 m (up to terrace Floor)
		6.	Achieved green area	1814.00 Sq. m. (20.50 % of Plot area) • 58.00 Sq. m. (5.50% on Open Ground) • 329.00 Sq. m.	193.30 Sq. m. on Open Ground (16.85% plot area)

				(15.00% on Podium)			
		7.	Flat details	2 BHK- 36 3 BHK- 117 4 BHK- 36 Total = 189 Flats		1 BHK-32 2 BHK-32 Total – 64 Flats	
4.	Parking	Unit	Basement	Stilt	Open	Total unit	Total ECU
		Cars	147	61	70	278 cars	278 ECU
		Scooters	36	186		222 Scooters	74 ECU
		Cycles	114	-	-	114 Cycles	19 ECU
		Total ECU					371 ECU
		Required parking for EWS Total flats = 64, Required parking = 64 Flats= 64 Scooters. Parking provided = 64 Scooters at stilt floor					
5.	Project Cost:	Rs. 52.31 crores					
6.	Water Requirement & Source	During construction phase water requirement will be which will be met from authorized water suppliers. Total water – 26.62 KLD - For GHP – 22.34 - For EWS- 4.28 KLD During post construction phase fresh water requirement will be met from PHED supply. - For GHP- 68.85 KLD - For EWS – 22.80 KLD					
7.	Fuel & Energy:-	For group housing project the power demand during post construction period 903.80 KW. The power will be received from Ajmer Vidhyuy Vitaran Nigam Ltd. (AVVNL) at 11 KW supply voltage. It will be stepped down to 0.433 KV through two transformer of 630 kVA capacity. (2x630) kVA) One DG sets of 250 kVA capacity is proposed for common facilities to cater the essential load only. For EWS the total power demand will be 290.65 KW, which will be met through grid of Ajmer Vidhyut vitaran Nigam Ltd.					
8.	Environment Management Plan	S. No.	Description	Capital Cost(in lacs)		Recurring Cost/Year(Rs. in lacs)	
		1	STP	40		4	
		2	Landscaping	4		0.4	
		3	Ground water recharge structure	5.0		0.50	
		4	Acoustic Enclosure	3		-	
		5	Dual Plumbing System	20		-	
		6	Solar Energy Utilization Application	10		3	
		7	Energy Efficient Lighting	3		2	
		8	Solid Waste Management	3		1.2	
		9	Efficient Fixtures	12		-	
		10	Monitoring of Air, Water, Noise & Soil	-		2.2	
		11	Insulation of walls & roof	20		-	
		Total		Rs. 120 Lacs		Rs. 12.30 Lacs	

9.	CSR Activates	S .No.	Particulars	Year wise expenditure (Rs. in lacs)			
				1 st Year	2 nd Year	3 rd Year	
		1.	The proponent wishes to support and upgrade education in locality. For this money will be spent on: 1. Donating books, school bags, stationary & dress. 2. Construction of separate toilets for boys and girls, boundary wall & verandas. 3. Installation of fans & lights. 4. Changing blackboard & furniture. 5. Arrangement of carrier counseling by experts 6. Financial assistance for promotion of higher education of meritorious and aspiring girls	12 lacs	5.5 lacs	4 lacs	
		2.	Encouragement of sanitation in locality and provision of dustbins in locality.	1.5 lacs	1 lacs	--	
		3.	Maintenance of nearby public places like roadside greenery and footpath.	2 lacs	--	--	
Total				15.5 lacs	6.5 lacs	4 lacs	
10.	STP	For GHP: STP of capacity 100 KLD based on SBR Technology. For EWS: STP of capacity 30 KLD based on SBR Technology. (page no. 29)					
11.	Green Belt/ Plantation	1814.00 Sq. m. (20.50% of plot area) 458.00 Sq. m (5.50 on Open Ground) 1329.00 Sq. m. (15.00% on podium)					
12.	Budgetary Breakup for Labour	S. No.	Activity	Fixed Capital cost (in Rs.)			
		1.	Temporary Houses to workers – 20 Nos. @ Rs. 25,000	Rs. 5,00,000			
		2.	Common Toilet- 4 Nos. @ 10,000	Rs. 40,000			
		3.	Bathing Area – 4 Nos. @ 10,000	Rs. 40,000			
		4.	Stoves to each family – 20 Nos. @ Rs. 2000	Rs. 40,000			
		5.	A medical room will be provided for regular health checkups and medical aid for which one doctor and compounder will be hired.	Rs. 25,000			
		6.	RO Plant (50 lpm)- 2 Nos.	Rs. 1,00,000			
		Total			Rs. 7,45,000		
		Running Expenses per month					
		S. No.	Activity	Running Capital cost (In Rs.)			
1.	Kerosene Oil to workers – 40 l/month /family @ Rs. 35/l	Rs. 28,000					
2.	Medical Facility (1Doctor +Compounder- on visit basis	Rs. 38,000					

		3.	Electricity and general expenses	Rs. 2,000
		4.	Proponent will encourage labour to send their children to nearby school for which financial support will be made.	Rs.12,000
		Total		Rs. 80,000

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 This EC shall be in terms of and subject to the directions that may be passed by the H'ble High Court,Jaipur in S.B Civil Writ Petition No. 3471/2013 .
- ii Consent to Establish" shall be obtained from RPCB before start of any construction work at the site including the proposed Building for EWS.
- iii The PP shall obtain a "No objection certificate for height clearance for the envisaged level from the Airports Authority of India.
- iv No Mobile tower shall be installed.
- v The P.P. shall comply with the guide lines for High Rise Buildings as per Office Memorandum no. 21-270/2008-IA.III dt. 07.02.2012 and amendments made therein.
- vi As envisaged, the P.P. shall invest at least an amount of Rs. Rs. 120 lacs as capital cost and Rs.12.30 Lacs as annual recurring cost (before the project is put into use) for implementing various environmental protection measures.
- vii The PP has proposed an amount of 26 lacs spent over 3 years as 15.5 Lacs for 1st year,6.5 lacs for 2nd year and 4 lacs for 3rd year under CSR as above. The expenditure on these activities shall be reflected in the books of account when presented for auditing of accounts. The proposal should contain provision for toilets for girls in nearby schools. The proposal should contain provision for monthly medical camps, distribution of medicines and improvement in educational facilities in the nearby schools. Detailed action plan of CSR activities shall be submitted by the PP to RSPCB at the time of applying for "Consent to Establish".
- viii Green belt/Landscaping should be developed as follows,as proposed-
 - 1814.00 Sq. m. (20.50% of plot area)
 - 458.00 Sq. m (5.50 on Open Ground)
 - 1329.00 Sq. m. (15.00% on podium)
- ix That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry / unit / project proponent. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

- x 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.
- xi The PP shall obtain approval of drawings of laying electrical lines from the concerned SE of RRVPNL/ JVVNL and comply with the provisions as per Terms and Conditions for Supply of Electricity-2004 of JVVNL.
- xii The PP shall full fill the requirements of energy regulatory commission.
- xiii All energy saving measures proposed by the PP should be implemented before the project is put into use.
- xiv Road width and bend should be adequate for easy movement of fire fighting vehicles.
- xv The P.P. shall ensure taking necessary steps on urgent basis to improve the living conditions of the labour at site. The proposed Budgetary provision of **Rs. 7,45,000** as capital and Rs 80,000 annual recurring shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as health facility, sanitation facility, fuel for cooking, along with safe drinking water, medical camps, and toilets for women, crèche for infants. The housing may be in the form of temporary structures to be removed after the completion of the project. Details of provisions should be submitted to RPCB at the time of obtaining CTE.
- xvi The drains should be of adequate capacity and be lined till the final disposal points.
- xvii As proposed, the entire waste water during the construction phase should be discharged through the Septic tank followed by soak pit and during post construction phases through an STP as follows –
 - a. For GHP:STP of capacity 100 KLD based on SBR Technology.
 - b. For EWS:STP of capacity 30 KLD based on SBR Technology.

The construction of the STP should be carried out simultaneously with that of the project (including the building for EWS) and the STP should be functional before both the the projects are put into use.

- xviii 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.
- xix All the laborers engaged for construction shall be screened for health and adequately treated before engaging them to work at the site.
- xx All the topsoil excavated during the construction shall be stored for use in horticulture/landscape development within the project site.
- xxi Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking necessary precautions for general safety and health aspects of the people, only at approved sites with the approval of competent authority.
- xxii Soil and ground water samples will be tested to ascertain that there is no threat to the ground water quality by leaching of heavy metals and other toxic contaminants.
- xxiii 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.
- xxiv The diesel generator sets to be used during and post construction phase shall be of low-sulphur-diesel type and shall conform to Environment (Protection) Rules for air and noise emission standards.
- xxv Vehicles hired for bringing construction material and laborers 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 hours.

- xxvi 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.
- xxvii 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.
- xxviii Ready mixed concrete shall be used in building construction.
- xxix NOC shall be obtained from National State Disaster Management Authority, wherever applicable.
- xxx Provision for storm water harvesting and its re-use as per CGWA and BIS standards for various applications should be implemented before the project is put into use.
- xxxi Guidelines issued by concerned Ministry for water scarce areas may be followed.
- xxxii Water demand during construction shall be reduced by the use of pre-mixed concrete, curing agents and other best practices. In place of fresh water, effort should be made to use treated waste water from nearby areas.
- xxxiii Total domestic water requirement shall not exceed for GHP – 22.34 and for EWS- 4.28 KLD During construction stage which will met through tanker supply and during post construction phase for GHP – 68.85 KLD for EWS- 22.80 KLD , obtained from PHED , Jodhpur as proposed. The necessary permission of water supply should be submitted to RSPCB at the time of applying for CTE. At the time of applying for CTE the PP should get it confirmed from RSPCB that no illegal bore well exists in the proposed site.
- xxxiv Building Plan should be got approved from the competent Authority and the construction should be as per the approved building plan and as per applicable provisions in NBC.
- xxxv The P.P. should ensure compliance of the order of the Hon'ble Rajasthan High Court, Jodhpur, in D. B. Civil writ petition no. 1536 of 2003 in the matter of Abdul Rahman vs. State of Rajasthan and others.
- xxxvi Adequate measures shall be taken to reduce air and noise pollution during construction as per CPCB norms.
- xxxvii 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.
- xxxviii 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.
- xxxix Roofing should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- xl 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.
- xli Provision of solar water heating /chilling/street lighting etc shall be explored and implemented.
- xl ii Review and revise the requirement of DG set capacities for 100% power back up through optimization of power back up in case of power failure and emergency.
- xl iii A First Aid Room should be provided at the project site, both, during construction and operation phase of the project.
- xl iv Any hazardous waste generated during construction phase shall be disposed off as per applicable rules and norms with necessary authorization of the RPCB.
- xl v The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire fighting equipments, etc as per National Building Code 2005 including protection measures from lightening etc.
- xl vi Regular supervision of the above and other measures for monitoring shall be in place throughout the construction phase, so as to avoid nuisance to the surroundings.

- xlvi During construction phase and Post construction / operation phase of the project, the project proponent shall be responsible for implementation of EIA/EMP. Commitment of proponent in this regard shall be submitted to RPCB at the time of applying for CTE.
- xlvi The project proponent shall fulfill in letter and spirit, all the commitments given/submitted to the SEAC office.

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 including that for the EWS building.
- ii Adequate measures shall be taken to prevent odor from solid waste processing and STP.
- iii Proper system of channelizing excess storm water shall be provided.
- iv 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 Rain Water Harvesting plan shall be as per GoI manual.
- v The proposals on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency shall be implemented.
- vi The power factor shall be maintained near unity.
- vii Application of solar energy shall be incorporated for 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.
- viii 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.
- ix Regular and periodic mock drills shall be undertaken by the fire department at least once in a year.
- x The D. G. sets to be operated with stack height as per EP Act, 1986 along with acoustic enclosure.
- xi Incremental pollution loads on the ambient air quality noise and water quality shall be periodically monitored after commissioning of the project and report to be submitted to RPCB.
- xii 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.
- xiii 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.
- xiv 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 proposed open space inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.
- xv Trees and shrubs of local species shall be planted to allow habitat for birds with appropriate distance from the boundary.
- xvi The SEIAA, Rajasthan reserve the right to add new conditions, modify/ annual any condition and/or to revoke the clearance if implementation of any of the aforesaid condition/other stipulations imposed by competent authorities is not satisfactory. Six monthly compliance status report of the project along with implementation of environmental measures shall be submitted to MoEF, Regional Office, Lucknow, SEIAA, Rajasthan & RPCB, Jaipur.

GENERAL CONDITIONS

1. The environmental safeguards contained in Form 1-A shall be implemented in letter and spirit.
2. 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.
3. Officials of the RSPCB, 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 RSPCB.

4. In case of any change(s) in the scope of the project, the PP requires a fresh appraisal by SEIAA/SEAC, Rajasthan.
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 RSPCB.
8. 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.
9. 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.


31/07/14
(Yogendra Kumar Dak)
Member Secretary,
SEIAA Rajasthan

Copy to following for information and necessary action:

1. Secretary, Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi - 110003.
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 Pollution Control Board, Jaipur.
6. Secretary, SEAC Rajasthan.
7. The CCF, Regional Office, Ministry of Environment & Forests, RO(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)