



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, PUNJAB, GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE

VATAVARAN BHAWAN,
NABHA ROAD,
PATIALA-147001
Telefax:- 0175-2215802

Registered

No. SEIAA/2015/3692

Dated 26.6.15

To

M/s Omaxe Ltd,
7 LSC, Kalkaji,
New Delhi.

Subject: Environmental Clearance under EIA notification dated 14.09.2006 for Expansion of housing project namely "Royal Residency" at Village Dad & Thakarwal, Distt. Ludhiana by M/s Omaxe Ltd.

This has reference to your application and subsequent presentation given before the State Level Expert Appraisal Committee (SEAC) seeking prior environmental clearance for subject cited project as required under the EIA Notification, 2006. The proposal has been appraised as per procedure prescribed under the provisions of EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, 1-A, conceptual plan, EIA study report and the additional clarifications furnished in response to the observations of the SEAC.

It is inter-alia noted that the proposal involves Expansion of housing project namely "Royal Residency" at Village Dad & Thakarwal, Distt. Ludhiana. The total area of the project is 56.720 acres having total builtup area 3,00,434 sqm (after expansion). The total expected population will be 15,165. The permission for change of land use has been granted by Department of Town & Country Planning Punjab vide letter no. 8056 CTP (Pb)/SP-432(L) dated 09.12.2014 for an area measuring 8.26 acres, vide letter no. 1593/CTP (Pb)/SP-432(L) dated 04.03.2011 for an area measuring 0.7031 acres, vide letter no. 685/CTP (Pb)/SP-432(L) dated 29.02.2012 for an area measuring 2.64 acres, vide letter no. 7001/CTP (Pb)/SP-432(L) dated 19.12.2013 for an area measuring 7.829 acres, vide letter no. 3917/CTP (Pb)/SP-432(L) dated 19.05.2010 for an area measuring 0.8125 acres.

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The total domestic water demand for the project will be 1794 KLD out of which 1339 KLD will met from groundwater. The total wastewater generation from the project will be 1435 KLD, which will be treated in a STP of 1500 KLD capacity within the project premises. In summer season, 455 KLD will be used for flushing, 400 KLD will be used for cooling makeup water requirement, 321 KLD will be used for horticulture demand and remaining 259 KLD will be sold to contractors for construction purposes till the sewer is laid. In winter season, 455 KLD will be used for flushing, 200 KLD will be used for cooling makeup water requirement, 145 KLD will be used for horticulture demand and remaining 635 KLD will be sold to contractors for construction purposes till the sewer is laid. In rainy season, 455 KLD will be used for flushing, 400 KLD will be used for cooling makeup water requirement, 88 KLD will be used for horticulture demand and remaining 492 KLD will be sold to contractors for construction purposes till the sewer is laid. About 35093 cum/year rain water will be recharged into the groundwater using rain water harvesting wells.

The total quantity of solid waste to be generated from the proposed project has been estimated as 5636 Kg/day, The solid waste will be segregated to biodegradable and non-biodegradable waste and will be managed as per MSW Rules, 2000. Biodegradable waste shall be disposed-off to an approved site. The recyclable inorganic waste shall be sold to local resellers. The e-waste is handled and managed as per the E-waste (Management & Handling) Rules, 2011. The total load of electricity required for proposed project is 14.1 MW which will be supplied by PSPCL. The project proponent has proposed to install D.G sets are proposed with inbuilt acoustic enclosure for backup power supply. Solar mixed street lighting has been proposed for the conservation of energy and LED lights shall be used for lighting, about 1831 KWHD will be saved.

Project Head of the company will be responsible for implementation of EMP till the handing over of the project. Thereafter, association of the residents or GLADA whosoever takes over the project will be responsible for implementation of EMP. During construction phase, Rs.16.50 lacs will be incurred for implementation of EMP and Rs.6.25 lacs/annum will be incurred on account of recurring charges. During operation phase, Rs.560 lacs will be incurred for implementation of EMP and Rs.17.00 lacs/annum will be incurred on account of recurring charges. Cost of monitoring during construction phase will be Rs.5.90 lacs/annum and during

operation phase, the cost of monitoring will Rs.9.30 lacs/annum. Rs.82 lacs will be utilized for following activities under Corporate Social Responsibility and the implementation of the CSR will be responsibility of Project Head of the company:

- a. Training programme to the Youth in Mobile/computer repairing = Rs.2 Lacs.
- b. Cleaning of ponds of nearby Villages = Rs.2 Lacs
- c. Toilets for girls in the nearest village school = Rs.3 Lacs
- d. The company has already paid Rs.75 Lacs in social infrastructure fund and social security fund.

The case was considered by the SEAC in its 109th meeting held on 20.02.2015 and 113th meeting held on 09.04.2015, wherein, the ToRs were issued to the project proponent vide letter no. 2479 dated 14.08.2014. The case was considered by the SEAC in its 114th meeting held on 30.04.2015 and lastly in 118th meeting held on 27.05.2015, wherein, the Committee observed that the project proponent has provided adequate and satisfactory clarifications of the observations raised by it, therefore, the Committee awarded '**Silver Grading**' to the project proposal and decided to forward the case to the SEIAA with the recommendation to grant environmental clearance to the project proponent under EIA notification dated 14.09.2006 subject to certain conditions in addition to the proposed measures.

Thereafter, the case was considered by the SEIAA in its 88th meeting held on 20.06.2015. The SEIAA observed that the case stands recommended by SEAC and the Committee awarded '**Silver Grading**' to the project proposal. The Authority looked into all the aspects of the project proposal in detail and was satisfied with the same.

Therefore, the Authority decided to grant environmental clearance to the project proponent for Expansion of housing project namely "Royal Residency" in total land area of 56.720 acres having total built up area of be 3,00,434 sqm. in the revenue estate of Village Dad & Thakarwal, Distt. Ludhiana, subject to the conditions as proposed by the SEAC, in addition to the proposed measures. Accordingly, SEIAA, Punjab hereby accords necessary environmental clearance for the above project under the provisions of EIA Notification dated 14.09.2006 and its subsequent amendments, subject to strict compliance of terms and conditions as follows:

PART A – Specific Conditions:

I. Pre-Construction Phase

- (i) "Consent to establish" shall be obtained from Punjab Pollution Control Board under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests / State Level Environment Impact Assessment Authority before the start of any construction work at site.
- (ii) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- (iii) A first aid room will be provided in the project both during construction and operation phase of the project.
- (iv) The approval of competent authority shall be obtained for structural safety of the buildings due to earthquakes, adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightning.
- (v) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, disposal of waste water & solid waste in an environmentally sound manner, 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.
- (vi) 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.

II. Construction Phase:

- (i) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- (ii) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority.
- (iii) Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses and the dump sites for such material must be secured, so that they should not leach into the groundwater.
- (iv) Construction/provision of the STP, tubewell, DG Sets, Utilities etc, earmarked by the project proponent on the layout plan, should be made in the earmarked area only. In any case the position/location of these utilities should not be changed later-on.

- (v) Vehicles hired for bringing construction material to the site and other machinery to be used during construction should be in good condition and should conform to applicable air and noise emission standards.
- (vi) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.
- (vii) Fly ash should be used as construction material in the construction as per the provisions of Fly Ash Notification of September, 1999 and as amended on August, 2003 and notification No. S.O. 2804 (E) dated 03.11.2009 (This condition is applicable only if the project is within 100 Km of Thermal Power Station).
- (viii) Ready mixed concrete should be used in building construction as far as possible.
- (ix) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices.
- (x) The project proponent shall adopt dual plumbing system for reuse of treated wastewater for flushing system & HVAC etc
- (xi) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xii) Adequate steps shall be taken to conserve energy by limiting the use of glass, provision of proper thermal insulation and taking measures as prescribed under the Energy Conservation Building Code.
- (xiii) The approval of competent authority shall be obtained for structural safety of the buildings due to earthquakes, adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightning.
- (xiv) The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to the provisions of Environment (Protection) Act, 1986 prescribed for air and noise emission standards.
- (xv) The project proponent will provide dual plumbing system for reuse of treated wastewater for flushing/ HVAC purposes etc. and colour coding of different pipe lines carrying water/wastewater/ treated wastewater as follows:
 - a. Fresh water: Blue
 - b. Untreated wastewater: Black
 - c. Treated wastewater: Green
(for reuse)
 - d. Treated wastewater: Yellow
(for discharge)
 - e. Storm water: Orange

- (xvi) The installation of sewage treatment plant (STP) and adequacy of disposal system should be certified by Punjab Pollution Control Board and a report in this regard should be submitted to the Ministry of Environment & Forests/State Level Environment Impact Assessment Authority before the project is commissioned for operation.
- (xvii) Chute system shall be provided for collection of domestic solid waste as proposed by the project proponent. The solid waste generated should be properly collected and proper onsite storage facility (covered) should be provided at site.

III. Operation Phase and Entire Life

- i) "Consent to operate" shall be obtained from Punjab Pollution Control Board under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests / State Level Environment Impact Assessment Authority at the time of start of operation.
- ii) The project proponent shall discharge all the treated wastewater onto land for plantation/horticulture, till the sewer is laid and thereafter, shall not discharge more than 259 KLD wastewater into sewer during summer season, 635 KLD wastewater into sewer during winter season and 492 KLD wastewater into sewer during rainy season.
- iii) The project proponent shall provide electromagnetic flow meter at the outlet of the water supply, outlet of the STP and any pipeline to be used for re-using the treated wastewater back into the system for flushing and for horticulture purpose/green etc. and shall maintain a record of readings of each such meter on daily basis.
- iv) The position / location of the STP, tubewell, DG Sets, Utilities etc, installed by the project proponent as per the provisions made in the layout plan, should not be changed later-on under any circumstances.
- v) Rainwater harvesting for roof run-off should be implemented. Before recharging the roof run-off, pretreatment must be done to remove suspended matter, oil and grease. However, run off from gardens/green area/roads/pavements may also be connected with the ground water recharging system after adequate treatment as per CGWA guidelines.
- vi) The collected solid waste should be segregated at site. The recyclable solid waste shall be sold out to the authorized vendors and inert waste shall be sent to disposal facility. The Bio-degradable solid waste shall be adequately treated as per the scheme submitted by the project proponent. Prior approval of competent authority should be obtained, if required.
- vii) Adequate & appropriate pollution control measures should be provided to control fugitive emissions to be emitted within the complex.
- viii) Hazardous waste/E-waste should be disposed off as per Rules applicable and with the necessary approval of the Punjab Pollution Control Board.

- ix) Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored.
- x) 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.
- xi) The project proponent shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab.
- xii) Adequate treatment facility for drinking water shall be provided, if required.
- xiii) The green belt 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 spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety.
- xiv) The project proponent should take adequate and appropriate measures to contain the ambient air quality within the prescribed standards. The proposal regarding mitigation measures to be taken at site should be submitted to the Ministry of Environment & Forests/ State Level Environment Impact Assessment Authority within three months.
- xv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating.
- xvi) A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about machinery of air conditioning, lifts, lighting, building materials, R & U Factors etc. and submitted to the respective Regional office of MoEF, the Zonal Office of CPCB and the SPCB/SEIAA in three months time.
- xvii) Environmental Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.
- xviii) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.
- xix) Separation of drinking water supply and treated sewage supply should be done by the use of different colors.
- xx) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

PART B – General Conditions :

A. Pre-Construction Phase

- i) This environmental clearance will be valid for a period of five years from the date of its issue or till the completion of the project, whichever is earlier.

- ii) The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.
- iii) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by project proponents from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable. The project proponent shall also obtain permission from the NBWL, if applicable.
- iv) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Punjab Pollution Control Board. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office, Ministry of Environment & Forests, Chandigarh and SEIAA, Punjab.
- v) These stipulations would be enforced among others under the provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environmental (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- vi) The project proponent shall obtain permission from the CGWA for abstraction of groundwater & digging of borewell(s) and shall not abstract any groundwater without prior written permission of the CGWA, even if any borewell(s) exist at site
- vii) The project proponent shall comply with the conditions imposed by the Competent Authority while granting CLU vide letter no. 13157 dated 16.09.2013.
- viii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local body 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.
- ix) The State Environment Impact Assessment Authority, Punjab reserves the right to add additional safeguards/ measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards/ measures in a time bound and satisfactory manner.

B. Construction Phase

- i) The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment

Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.

- ii) The entire cost of the environmental management plan (i.e. capital cost as well as recurring cost) will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU after obtaining prior permission of the Punjab Pollution Control Board.
- iii) 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 mail) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab.
- iv) Officials from the Regional Office of Ministry of Environment & Forests, Chandigarh / State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee / Punjab Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to State Environment Impact Assessment Authority should be forwarded to the CCF, Regional Office of Ministry of Environment & Forests, Chandigarh and State Level Environment Impact Assessment Authority, Punjab.
- v) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority, Punjab.
- vi) Separate distribution pipelines be laid down for use of treated effluent / raw water for horticultural/gardening purposes with different colour coding.
- vii) The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility and shall spend the amount as proposed or atleast minimum required to be spent under the provisions of the Companies Act 1956, whichever is higher.
- viii) The State Environment Impact Assessment Authority, Punjab reserves the right to add additional safeguards/ measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards/ measures in a time bound and satisfactory manner.
- ix) Separation of drinking water supply and treated sewage supply should be done by the use of dual plumbing line.

C. Operation Phase and Entire Life

- i) Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project and decisions of any Competent Court, to the extent applicable.
- ii) The entire cost of the environmental management plan (i.e. capital cost as well as recurring cost) will continue to be borne by the project proponent

- until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU after obtaining prior permission of the Punjab Pollution Control Board.
- iii) 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 mail) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab.
- iv) Officials from the Regional Office of Ministry of Environment & Forests, Chandigarh / State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee / Punjab Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to State Environment Impact Assessment Authority should be forwarded to the CCF, Regional Office of Ministry of Environment & Forests, Chandigarh and State Level Environment Impact Assessment Authority, Punjab.
- v) 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; PM_{2.5}, PM₁₀, SO₂, NO_x, CO, Pb, Ozone (ambient air as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- vi) The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility and shall spend the amount as proposed or atleast minimum required to be spent under the provisions of the Companies Act 1956, whichever is higher.
- x) The State Environment Impact Assessment Authority, Punjab reserves the right to add additional safeguards/ measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards/ measures in a time bound and satisfactory manner.


Member Secretary (SEIAA)

REGISTERED

Endst. No. _____

Dated _____

A copy of the above is forwarded to the following for information & further necessary action please.

1. The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.

2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-office Complex, East Arjun Nagar, New Delhi.
3. The Chairman, Punjab State Power Corporation Ltd, the Mall, Patiala.
4. The Deputy Commissioner, Ludhiana.
5. The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
6. The Director (Environment), Ministry of Environment and Forest, Northern Regional Office, Bays No.24-25, Sector-31-A, Chandigarh. The detail of the authorized Officer of the project proponent is as under:
 - a) Name of the applicant : Mr. Daleep Moudgil
 - b) Contact no. : 011-41896680-85
7. The Chief Town Planner, Department of Town & Country Planning, 6th Floor, PUDA Bhawan, Phase-8, Mohali
8. Monitoring Cell, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
9. The Environmental Engineer (Computers), Punjab Pollution Control Board, Head Office, Patiala for displaying this document on the web site of the State Level Environment Impact Assessment Authority.

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Member Secretary (SEIAA)