



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA), ODISHA

{ Constituted vide order No. S.O. 1899 (E) Date 17th August, 2012

Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986.)

Qr. No. 5RF-2/1, Unit - IX, Bhubaneswar - 751022

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Ref. No. 1997/SEIAA

Dt. 24.04.2013

From

Bhanu Pratap Singh, IFS
Member Secretary
State Environment Impact Assessment Authority (SEIAA), Odisha,
Bhubaneswar

To

Mr. Bachan Singh, (Vice President)
B-Wing, Trade World, 2nd Floor,
Kamala Mills, Senapati Bapat Marg,
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Sub: Environmental Clearance for construction of Multi Storied Residential apartment at Mouza Shankarpur, Bhubaneswar in the district of Khurda.

Sir,

This has reference to your letter no. BBS/SEIAA/001 dated 18.07.12 and subsequent letter no. 176/SEIAA dated 8.10.12, no. nil dated 16.11.12, no. nil dated 22.11.12, no. nil dated 25.11.12, no. KRPL/CGWB/12-13/001 dated 16.03.12, No. KRPL/ARIANA/Bhubaneswar/12-13/123 dated 12.12.12, no. KPPL/ARIANA/BBSR/12-13/138 dated 28.12.12, no. KRPL/ARIANA/BBSR/12-13/159 dated 13.02.13, no. KRPL/ARIANA/BBSR/12-13/167 dated 28.02.13 and no. KRPL/ARIANA/BBSR/12-13/03 dated 12.04.13 on the above mentioned subject I am directed to say that the State EIA Authority, Odisha have been pleased to grant herewith Environmental Clearance for construct a Multi Storied Residential apartment over plot no-87/1263, 87/1264. Khata no. 421 covers 48575.31 sqm. (12.0 acre) area at Mouza Shankarpur, Tahasil Bhubaneswar in the district of Khurda for a period of 5 (five) years.

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M/s Kriday Realty Pvt. Ltd. proposed to construct a Multistoried Residential Apartment over Plot No-87/1263.87/1264 Khata No- 421 covers 48575.31 sqm (12.0 Acre) area at Mouza-Sankarpur, Tahasil-Bhubaneswar, Dist- Khurda, Odisha. This proposed residential building is having built-up area 1,85,176.33 sq. mtrs. It has proposed to construct 12 towers of different heights with retail & club area. Total Built-up area of phase-I, phase-II=13615.6 sqm+1,18,780.14 sqm=132395.7 sqm (excluding basement), Total Built-up area of phase-I, phase-II =17877.90 sqm.+ 1,66,460.32 sqm=185176.33 sqm (including basement area). Maximum height of the building is 61.5 m. Total Built-up area of phase-I phase-II =17877.90 sqm.+ 1,66,460.32 sqm=185176.33 sqm (including basement area). Maximum height of the building is 61.5 m. Total parking area required (Phase-I & Phase-II)= 4222.5+35634.042= 39856.54 sqm. Total parking area provided ((Phase-I & Phase-II)= 4901.83+47680.18=52582.01 sqm. Exclusive green area is 9715.062 sqm. Total project cost is about Rs.577.00 crores. No National Park /Wild life sanctuary is located within 10 km radius of the project site. The daily power requirement for the proposed project is assessed as 4568 KW. The power will be entirely supplied through CESU. Also, in case of power cut, power backup generators will be provided. For this purpose, 2 nos. 1010 kVA and 1 no. 380 kVA DG sets will be provided. During construction stage daily requirement of water will 104 LKD which will be sourced from surface water (from river) through water tankers or PHED. During operation stage total fresh water requirement will be about 691 KLD which will be sourced from PHED, Bhubaneswar. One STP (FAB Technology) of 860 KLD capacity will be provided for treatment of waste water generated from the complex. 740 KLD treated water from STP will be used for DG Set cooling purpose. Zero discharge norms will be followed. 7 nos. (Capacity 48 cum each) of recharge pits will be provided for rainwater water harvesting. Solid waste generation will be approximately 2500.10 kg/d. It is assessed that height of the stack for DG set shall be 68m.

The project proponent alongwith the consultant M/s. Hubert Enviro Care System Pvt. Ltd, Chennai made detailed presentation before the SEAC during the SEAC meeting held on 24th 26th &27th November, 2012. The SEAC observed during presentation that the project proponent has not made the presentation according to building plan to be approved by the BDA, Bhubaneswar. Considering the request of the proponent, the SEAC decided to Call the project proponent for another presentation with approved building plan during meeting of SEAC on 17th &18th December, 2012. The committee in its meeting held on 17th &18th December,2012 decided to take decision on the proposal after receipt of field visit report of the sub-committee. The sub-committee submitted field visit report and observed the following.

There is no natural drainage system nearby. On the south at about 500 mtrs away a valley line exists which crosses Kalinga Vihar road at a distance of 500 mtrs from the project site. On the south western direction at a distance of 1.5 km from the project, Jhumakanalla join with local storm water drains and outfalls to Gonguanall. This natural drainage system is the only source of disposal for storm water /excess treated water from this project. On the south west direction at a distance of 500 mtrs from this project another residential cum commercial complex is coming up by Trident Builders. The committee members also visited that project. The project managers of both projects were present during discussion. The members desired to know regarding the drainage arrangements of both the projects. Both the project manager told to committee members that a storm water

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drain will be developed from Kriday realty project site to the trident trident complex and the storm water will combine and pass through the drain, developed by Trident upto Jhumakanalla. As per the statement of both managers BDA has put this condition to both the project proponents.

The committee decided to consider the case after receipt of the letter of BDA and the written consent from M/s Trident Builders for consideration of grant of environmental clearance. The project proponent has submitted a letter from BDA. The committee in its meeting held on 16th and 18th February, 2013 decided to take decision on the proposal after receipt of consent from M/s Trident Builders.

The proponent has again appealed to the committee to consider their case as BDA has already stipulated a condition in its letter No. 109/EM/BDA dated 11.02.13 that storm water of quantity 770 cum /hr is to be discharged through the peripheral drain of M/s Trident properties Ltd. BDA will acquire and construct the storm water drain of approximate length 180 mtr. Along the proposed 200' master plan road and M/s Kriday Reality Pvt. Ltd bear the cost of land acquisition and construction of storm water drain of their portion as per letter of BDA.

Based on the information, document and clarification provided by the proponent and on the recommendation of SEAC, Odisha the SEIAA, Odisha hereby accords Environmental Clearance in favour of the project for a period of 5 (five) years under the provisions of EIA Notification 2006 and 2009 and subsequent amendments thereto under various MoEF, Govt. of India circulars thereunder and subject to the following stipulated conditions.

Stipulated Conditions:-

1. General Conditions:-

- i) The applicant (project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by them in Form-1, Form-IA and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
- ii) The applicant will take statutory clearance/approval /permissions from the concerned authorities in respect of the project as and when required.
- iii) The applicant will submit half-yearly compliance report on post-environmental monitoring in respect of the stipulated terms and conditions in the Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha, on 1st June and 1st December of each calendar year.
- iv) The project proponent shall comply all the conditions stipulated by the Bhubaneswar Development Authority (BDA) in its building plan approval letter issued vide letter No. 26990/BP/BDA dated 14.12.12
- v) The project proponent shall comply all the conditions stipulated by the Bhubaneswar Development Authority (BDA) in its approval of external infrastructure such as storm water drainage, sewage disposal and road construction issued vide letter No. 109/EM/BDA dated 11.02.13

2013/02/18

- vi) The project proponent shall provide adequate wide open space all around the building blocks for movement of fire engine as per provisions of National Building Code (NBC)-2005.
- vii) The project proponent shall obtain Periodic Occupancy Renewal Certificate from the competent authority at an interval of 3 to 5 years as per the provisions of National Building Code (NBC), 2005.
- viii) The project proponent shall comply to all the conditions stipulated by the Fire Prevention Officer, Odisha.
- ix) The applicant will adopt the prescribed norms, and standards provided in the National Building Code of India, 2005, specially relating to:
 - a) Fire protection and life safety of occupants of the buildings.
 - b) Safety of personnel during construction, operation and demolition of buildings.
 - c) Day lighting and natural ventilation of the buildings.
 - d) Safety from electrical fire, shock and lightning of the buildings.
 - e) Air Conditioning, heating and mechanical ventilation of the buildings
 - f) Acoustics and noise control of the buildings.
 - g) Maintenance and functioning with emissions from generators supplying power to common space /residential area in case of power failure along with fuel handling/ storage.
 - h) Installation of lifts and escalators in the buildings
 - i) Water supply, drainage and sanitation including solid waste management.
 - j) Landscaping of surrounding areas of the buildings.
- x) Considering the peak water consumption of the occupants of the building project, the design of the water supply system and the sewage disposal system of the project should be based on the provisions of water consumption of 200 liters per capita per day (lpcd).
- xi) In case the water and sewer connections from the public water supply and sewerage systems maintained by the PHED are not technically feasible for the proposed housing complex as certified by the PHED and in case the proponent establishes its own water supply or sewerage system for the proposed housing complex, the proponent shall take full charge to operate and maintain the utility systems, confirming to the requirements of relevant authorities for a minimum period of five years from the date of occupation of the last house in the complex. This provision will find a place in the project brochure circulated among intending buyers and will also form a condition in the agreement or contract signed between the proponent and the house owner (purchaser) in very clear terms during purchase of the house to ensure that the purchasers are assured of the desired services committed to them by the builder/proponent after occupation. During the period of operation and maintenance (O & M), the proponent shall build the capacity of the Housing Society to take over the O&M of the utility services to run the same beyond the stipulated period. However, the proponent and the housing society are free to enter into fresh contracts on extension of the O&M of the utility services by the proponent and the housing society are free to enter into fresh contracts on extension of the O&M of the utility services by the proponent beyond the stipulated period on mutual agreement.

24.10.2013

2. Special Conditions

A. Construction Phase

- i) No ground water shall be extracted for the project work at any stage during the construction phase.
- ii) Provision shall be made for the housing of construction labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iii) A First-Aid room will be provided in the project site both during construction and operation of the project.
- iv) All the top soil excavated during construction activities should be stored separately for use in land filling, horticulture/ landscape development within the project site.
- v) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and will be disposed off taking the necessary precautions for general safety and health aspects of people only in approved sites with the approval of competent authority.
- vi) Soil and ground water samples will be tested periodically to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- vii) Construction spoils, including bituminous material and other hazardous materials should not be allowed to contaminate watercourses, ground water and dump sites by following safe dumping / disposal practice as per statutory rules and norms with necessary approval of the Odisha State Pollution Control Board.
- viii) The fuel for diesel generator sets to be used during construction phase shall use low sulfur diesel fuel and should conform to Environment (Protection) Rules 1986 prescribed for air emission and noise standards.
- ix) The diesel required for operating DG sets shall be stored in underground tanks and, if required, clearance from the Chief Controller of Explosives shall be taken.
- x) Vehicles used for bringing construction materials to the site should be in good condition and should have a pollution check certificate, covered and conform to statutory air and noise emission standards and should be operated only during non-peak hours of the day.
- xi) Ambient noise levels should 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. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / OPCB.
- xii) Fly ash bricks should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and as amended thereafter.
- xiii) Ready mixed concrete would be used in building construction.
- xiv) Storm water control and its re-use should be as per CGWB and BIS standards for these applications.
- xv) Water demand during construction should be optimized by adopting best practices without compromising quality. It should be through the tanker obtained from the PHD, Odisha.

20.12.2013

- xvi) Separation of grey and black water supplies and collection should be done by the use of dual plumbing line. Grey and black water should be treated separately decontaminating the pollutants including heavy metals, oil etc. before recycling/ reuse.
- xvii) Fixtures for showers, toilet flushing and drinking water should be of low flow type and restricted to requirements by use of aerators, avoiding wastage pressure reducing devices or sensor based controls.
- xviii) Use of glass may be maximum upto 40% of total outer wall area to reduce the energy consumption and load on air-conditioning. If necessary, high quality double glass with special reflective coating may be used in the windows.
- xix) Roof should meet the prescribed requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.
- xx) Opaque wall should meet prescriptive requirements as per Energy Conservation Building Code.
- xxi) 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 of India, 2005 including protection measures from lightning etc.
- xxii) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase to avoid disturbances and pollution to the surroundings.

B. OPERATION PHASE

- i) The installation of the Sewage Treatment Plant (STP) should be certified by a competent agency and a report in this regard should be submitted to the SEIAA, Odisha before the project is commissioned for operation. Treated effluent from STP shall be recycled/ reused to the maximum extent possible after scientific treatment. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Odisha State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.
- ii) The STP sludge should not be dried nor incinerated within the project site and should be disposed off as per the norms of SPCB, Odisha.
- iii) The STP must be technically sound to treat all kinds of pollutants present in it and its capacity should take into account the entire load of sewage generated by the inhabitants.
- iv) The project proponent will ensure that under no circumstances, the environment is polluted due to non-functioning / under performance of sewerage disposal system of the project.
- v) The solid waste generated should be properly collected and segregated. Wet garbage should be disposed off to be composted and dry / inert solid waste should be disposed through a certified agency for safe disposal. Necessary approval / permission may be obtained from the concerned authorities. In no case it should be left in the premises untreated.
- vi) Diesel power generating sets proposed as source of back-up power for lifts, elevators and common area illumination during operation phase should be of enclosed type and conform to Environment Protection (EP) rules 1986. The height of the stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets put together and should be more than the highest building height. Low sulfur diesel should be used. The location of the DG sets may be decided in consultation with Odisha State Pollution Control Board. Care may be taken to avoid disposal of smoke / pollutants from DG sets in the residential area.

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- vii) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time, the noise levels measured at the boundary of the sites shall be restricted to the permissible levels to comply with the prevalent regulations.
- viii) Green-belt & avenue Plantation of trees over atleast 20% of the site area shall be done using native tree species/shrubs improving greenery & keeping in view aesthetics considerations in the whole complex. Professional landscape architects should be engaged to design the green layout to provide for multi tier plantation and green fencing all around, mitigating various environmental pollutants like dust, noise, emissions etc. and pathway for joggers. Further, the project proponent shall ensure protection of existing natural plant species in the project area. Planting pattern of different species shall be decided by the project proponent in consultation with forestry/ horticulture specialist.
- ix) Adequate rain water harvesting structure shall to be placed aiming towards zero discharge' from the surface. Rain water harvesting for roof run- off and surface run-off should be implemented as per submitted plan. Before recharging the run off, pre-treatment must be done to remove suspended matter, oil, grease and other soluble components as per norms. Rainwater recharge should be through specified recharge pits of required numbers. The surface runoff water should be stored suitably treated and reused for landscaping. The bore-well for rainwater recharging should be kept at least 5 mts. above the highest ground water table. The technology may preferably be adopted from a registered commercial firm with performance guarantee.
- x) Weep holes in the compound walls shall be provided to ensure natural drainage of excessive rain water in the project area during the monsoon period after the harvesting operations. Care must be taken so that there is no water logging in the territory and drainage is 100%.
- xi) The ground water level and its quality should be monitored regularly in consultation with Central / State Ground Water Authority.
- xii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Traffic congestion shall be avoided inside the project site. The area ear- marked for parking shall not be used for any other purpose. Alternate entry and exit must be provided to handle excess traffic and emergency situations.
- xiii) A Report on the energy conservation measures conforming to energy conservation norms finalized by the Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology R&U Factors etc submitted to the SEIAA, Odisha in three months time before operation/ habitation.
- xiv) Provisions of solar hot water storage / supplies at the roof top shall be made as per statutory norms of CPCB/ MoEF / SPCB, Odisha
- xv) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid toxic contamination. Use of solar panels may be adopted to the maximum extent possible, especially for street lights.
- xvi) The building blocks should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

Signature
Date

- xvii) The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this fund shall be diverted for other purposes like Annual allocation and maintenance / monitoring etc. and expenditure for this fund should be reported to the SEIAA, Odisha on regular basis.

The above mentioned stipulated conditions shall be complied in a time-bound manner. Failure to comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986


24.04.2013
Member Secretary

Memo No 1998/SEIAA/Dt. 24.04.2013
Copy to

1. Ministry of Environment & Forests, Govt of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Orissa for kind information.
3. Chairman, State Pollution Control Board, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for kind information.
6. Vice Chairman, Bhubaneswar Development Authority, Akash Sobha Building Secretariat Marg, Bhubaneswar-751001 for kind information.
7. Chief Engineer, PH (Urban), Orissa 1st Floor, Heads of Dept. Building, Bhubaneswar-751001 for kind information.
8. Chief Engineer-cum-Member Secretary, Orissa Water Supply & Sewerage Board, Satya Nagar, Bhubaneswar-751007 for kind information.
9. Collector & District Magistrate, Khurda for kind information and necessary action.
10. Chairman/Member/Member Secretary SEIAA for kind information.
11. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
12. Guard file for record.


24.04.2013
Member Secretary