

Sub: SEIAA Kerala – Proposed housing project of M/s Desai Homes (DD Diamond Valley Project) at Kakkanad Village Thrikkakkara Municipality, Kanayannoor Taluk, Ernakulam – Environmental Clearance – Accorded

Environmental Clearance

No. 185/SEIAA/05/2014

dated, Thiruvananthapuram 01.10.2014

- Ref:- 1. Application dated 31.12.2013 submitted by Sri M.J Sobachan, General Manager, M/s Desai Homes 40/7669, 1st Floor, DD Vastra Mahal, Market Road, Ernakulam, 682011
2. Minutes of the 25th meeting of SEAC held on 14/15.02.2014
3. Minutes of the 30th meeting of SEAC held on 6/7.06.2014
4. Minutes of the 33rd meeting of SEIAA held on 24.09.2014

ORDER

Sri M.J Sobachan, General Manager, M/s Desai Homes, Builders & Real Estate Developers, 40/7669, 1st Floor DD Vastra Mahal, Market Road, Ernakulam, Cochin 682 011, Kerala submitted the application referred to above, for construction of a residential project DD Diamond valley in Survey No. 368, Kakkanad, Thrikkakkara Municipality, Kanayannoor Taluk, Ernakulam District. The application was received on 01.01.2014. Data regarding the project and environmental impact mitigation measures proposed to be adopted as furnished by the proponent are as under:

Name of project	Housing project of M/s Desai Homes Builders & Real Estate Developers in Sy. No. 368 at Kakkanad Village, Kanayannur Taluk, Ernakulam District, Kerala
Nature size and location of the project	Housing project in Sy. No. 368 at Kakkanad Village, Kanayannur Taluk, Ernakulam District, Kerala between 10° 01' 16.22" to 10° 01' 09.80" N and 76° 22' 34.08" to 76° 22' 27.02" E
Screening of the project	Category B; 8 (a)
Scoping of the project	B2
Project details	It is proposed construct 3 residential building blocks along with recreational block with first aid facility within the site. The max. floor of the building is with Ground +17 floors. The proposed project which involves 3 blocks & recreational block with 459 apartments. The total plot area of the proposed project is 1.9734 hectare (19,734.38 m ²) and the total built-up area is 56,919.45 m ² . The maximum height of building is 51.75m.
Total Plot Area	1.9734 ha. (19,734.38 sq. m.)
Total Built-Up Area	56,919.45 sq. m.
Vacant area/Open to sky	15,398.88 sq.m
New/Expansion/Modernization	New
Energy requirement	2200 kw
Quantification of energy saved	About 24%

Renewable energy devices used	Solar water heaters Solar power plant Solar operators streetlights
<u>Water Consumption</u>	
Consumption phase	62 KLD - from stored rain water, well water and treated water from STP
Operation Phase	320.175 - from roof rain water, stored rain water, well water (Non flushing req. and treated waste water from STP (flushing req.))
<u>Waste Management proposals</u>	
1. Solid waste	80 kg/day during construction phase. It will be 918 kg/day which will be collected separately as Bio - degradable and non Bio degradable as per the MSW rules 2000. Non Bio degradable and recyclable is would be sold to the vendors. Bio - degradable waste with sludge from STP would be sent to be Bio Gas plant of capacity 500 kg/day to be provided within the premises.
2. Liquid Waste	Sewage generation 256.14 KL/day. Sewage disposal facility - Sewage Treatment Plant recycling. Treated water of 230.526 KL/day will be available. Sewage will be disposed off through proposed Sewage Treatment Plant to be developed within the premises both during construction and operational phase. There is no chance of spillage or discharge of sewage and all the sewage will be channelized properly through closed pipes to the STP. The sewage after treatment will be utilized for flushing & horticulture purposes.
3. E- Waste	E -wastes shall be stored in an earmarked and covered area and disposed of as per e-wastes (Management & Handling) Rules, 2012.
4. Any Other waste	Hazards waste ie. used oil from DG sets, discarded oil filters and discarded batteries shall be stored separately to be disposed of through CPCB/SPC ^r authorized vendors.
Emissions from combustion of fossil fuels from stationary or mobile sources	The operation of proposed project does not envisage any major air pollutant generating sources except D.G. sets and vehicular movement during construction phase and operation phase. It is proposed to have a D.G set of 62.5 KVA x 2 nos. during operation phase.
Dust or odours from handling of materials including construction materials, sewage and waste	During construction phase dust will be generated during the handling of construction materials. Sprinklers for suppression of dust will be installed during construction phase to minimize the dust generation. Wind breakers (ie. Barricades with GI sheets) at all vulnerable sides (all along the nearby houses) or locations or using shade nets will be used for dust control.
Total cost of the project	75.70 crores

<p>Corporate Social Responsibility</p> <p>Details of Authorised Signatory</p>	<p>As per the legal provisions</p> <p>Mr. M. J. Sobachan General Manager M/s Desai Homes 40/7669, C-40, 1st Floor DD Vasta Mahal, Market Road Enakulam, Kerala-682011 Tel. No. 9484-2365595; 2365746; 2363786 Mob. No. 99847935595; Email: sobachan@desaihomes.com; electrical@desaihomes.com;</p>
<p>Details of NABET approved EIA consultant organisation</p>	<p>M/s Environmental Engineers & Consultants Pvt.Ltd. A1-198, Janak Puri New Delhi - 110058. Tel. No: 011-25507190; Fax; 011-25622604; Email: eecnewdelhi@yahoo.in; eecnewdelhi@gmail.com;</p>

2. The project proponent has furnished detailed Ecological Assessment report. The application was considered in the 25th SEAC meeting held on 14th and 15th February 2014 as agenda item No. 25.09 and was deferred for site visit to ascertain whether the proponent has done any construction activities, which amounts to any serious violation and directing the proponent to provide the following to SEAC for further processing of the application:

1. Affidavit stating the extent of work done by them in the project site at present.
2. Revised details on the amount set aside towards CSR enhancing the present proposed amount.
3. Assurance in the form of affidavit that the width of outer road shall be increased to 7 m and that rule 33(5) of KPBR shall be scrupulously followed.

Subsequently, a subcommittee of SEAC consisting of Dr. N.G.K. Pillai, Chairman, SEAC and Sri. John Mathai, Member, SEAC inspected the site on 3rd March 2014 and reported as follows:

'The area is slightly elevated laterite mount where the top laterite OB of about 3-4 m has been stripped off. Low lying paddy fields (currently fallow)/waterlogged areas seen on the three sides of the plot.

The following recommendations are made:

- Revised conceptual plan showing separate entry and exit of not less than 6 m road width.
- The approach road to the site is presently narrow. With many dwelling coming in the area, the road must have at least 12 m width. A certificate that the main road will be widened in reasonable time frame from competent authorities is required.
- The existing bore well can be used in a limited way (limit pumping to less than 8 hrs a day with at least three breaks, pump test to be carried out with at least 10 hours of continuous pumping to ascertain the yield). Further bore wells not recommended on account of proximity to the coast and less than 20 m elevation.
- Ensure providing 3000KL RWH facility for each block as per plan.
- Promote at least two open wells in the laterite underlain area to ensure sustainable water source.
- Excess water from STP to be treated additionally before letting it out.
- The sustainability of bio-gas plant proposed may be reported periodically, at least once in a year.
- Storm water drainage plan, parking space etc. need to be mentioned.

In the mean time, the proponent has submitted the additional clarifications sought. The

proposals with recommendations in the inspection report was placed for consideration of the 30th meeting of SEAC held on 6/7/2014. The committee appraised the application, reports and other connected documents and recommended for grant of clearance.

3. The matter was placed in the 33rd meeting of SEIAA on 24.09.2014. The SEIAA after analyzing the reports and recommendations of SEAC and the clarifications and assurances given by the project proponent, approved the application for issue of Environmental Clearance.

4. Environmental Clearance as per the EIA notification 2006 is hereby accorded for the proposed housing project of M/s Desai Homes, DD Diamond valley project in Survey No. 368 of Kakkanad village, Thrithakara Municipality, Kanayannoor Taluk, Ernakulam district subject to the clarifications, conditions in the site inspection report mentioned in para 2 above, which remains to be rectified by the project proponent. The clearance given will be subject to all the Environmental impact mitigation and management measures, undertaken by the project proponent in the documents submitted to SEIAA, the mitigation measures specified against each in the table in para 1 above, as well as in the presentation in the SEAC. The assurances and clarifications given by the proponent will be deemed to be a part of these proceedings as if incorporated herein. Also the general conditions for projects other than mining appended hereto will be applicable and have to be strictly adhered to.

5. Validity of the Environmental Clearance will be five year from 01.10.2014, subject to earlier review in the event of non compliance or violation of any of the conditions stipulated herein.

6. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Govt. of India, Bangalore.

- ii) Necessary assistance for entry and inspection should be provided by the project Proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
- iii) Instances of violation if any shall be reported to the District Collector, Ernakulam to take legal action under the Environment (Protection) Act 1986.
- iv) The given address for correspondence with the authorized signatory of the project is,



[Handwritten Signature]

For Member Secretary, SEIAA

To

Sri. M.J Sobachan
General Manager
Desai Homes, 40/7669
C. 40 - First Floor, DD Vastra Mahal
Market Road, Ernakulam, Cochin 682 01 1

Copy to:

1. IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110003.
2. MoEF Regional Office, Southern Zone, Kendriya Sadar, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
3. The Addl. Chief Secretary to Government, Environment Dept., Government of Kerala

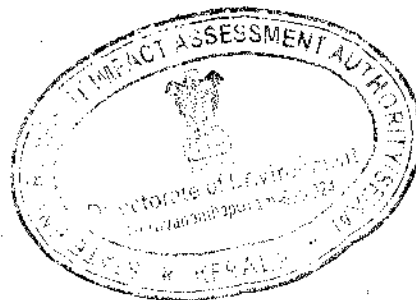
4. The District Collector, Ernakulam
5. The Director, Dept of Environment and Climate Change, Govt. of Kerala, Tvm-24.
6. The Director, Mining and Geology Department, Government of Kerala
7. The Secretary, Thiruvananthapuram Municipality
8. Chairman, SEIAA Kerala
9. Website
10. Stock file


ANNEXURE I

GENERAL CONDITIONS (for projects other than mining)

- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.
- (iv) The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the national grid in future.
- (v) Safety measures should be implemented as per the Fire and Safety Regulations.
- (vi) STP should be installed and made functional as per KSPCB guidelines including that for solid waste management.
- (vii) The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.
- (viii) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (ix) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (x) All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- (xi) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xii) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment 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.
- (xiii) The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including 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

- (xiv) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
- (xv) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
- (xvi) The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and 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 respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.
- (xvii) The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.
- (xviii) The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.




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