

**MINUTES OF THE 110<sup>TH</sup> GOA STATE ENVIRONMENT IMPACT ASSESSMENT  
AUTHORITY (GOA-SEIAA) MEETING HELD ON 08/08/2023 AT 03:30 P.M. IN  
THE CONFERENCE ROOM OF THE 4<sup>TH</sup> FLOOR, DEMPO TOWER, PATTO,  
PANAJI-GOA.**

The 110<sup>th</sup> meeting of the Goa - SEIAA (*hereinafter referred as 'Authority'*) was held on 08<sup>th</sup> August 2023 at 03:30 pm in the conference room, 4<sup>th</sup> floor, Dempo Tower, Patto, Panaji. The list of members present during the meeting is annexed (*refer Annexure - 1*).

At the outset, Chairman welcomed Authority members and briefed about the agenda items (*refer Annexure - 2*) to be taken up for discussion / deliberations and appropriate decision. Accordingly, the same were considered as detailed below.

**1. To decide on application for Modification of Environmental Clearance received from DLF Ltd. bearing Plot No. 35, EDS Plot Estate, Patto Plaza, Panaji-Goa.**

The representative of DLF Ltd. Shri. Rajeev Singh along with their consultant appeared before the Authority and explained the details of the project.

**Decision:** After scrutinizing and perusing the documents submitted by the Project Proponent and considering recommendation given by the Goa State Expert Appraisal Committee, the Authority decided to grant Environment Clearance to this proposal under certain general and specific conditions.

- i. The project is located at 1529'39" N Latitude and 73 50'3" E longitude.
- ii. Earlier EC was obtained vide letter No. 21-626/2007-IA.III and No. 21-89/2017-IA-III dated 08/05/2008 & 04/09/2017 respectively from MOEF&CC.
- iii. The total plot area is 18,120.00 sqm. and total built up area of 74,340 sqm.
- iv. During construction phase, total water requirement is expected to be 30 KLD which will be met by PWD. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.
- v. During operational phase, total water demand of the project is expected to be 540 KLD and the same will be met by PWD and the STP Recycled Water Wastewater generated (342 KLD) will be treated in 1 STP of total 400 KLD capacity. 297 KLD of treated wastewater will be recycled. About 28 KLD will be disposed in to municipal drain.
- vi. About 1.09 TPD solid wastes will be generated in the project. The biodegradable waste (0.44 TPD) will be processed in OWC and the non-biodegradable waste generated (0.65 TPD) will be handed over to authorized local vendor.

- vii. The total power requirement during construction phase is 500 KVA and will be met from Goa state Electricity Board and total power requirement during operation phase is 4736 KVA or 3,788.8 KW and will be met from Goa state Electricity Board/ Solar energy.
- viii. Rooftop rainwater of buildings will be collected in 1 RWH tank of total 170 CUM capacity for harvesting after filtration.
- ix. Parking facility for 835 ECS is proposed to be provided against the requirement of 816 ECS (according to local norms).
- x. Proposed energy saving measures would save about 18% of power.
- xi. It is not located within 10 km of Eco Sensitive areas
- xii. There is no court case pending against the project.
- xiii. Investment/Cost of the project is Rs. 659.03 (in crores).
- xiv. Employment potential: During construction period, employment opportunities will be generated for about 150 local construction laborers.
- xv. Benefits of the project: The project involves construction of a commercial complex comprising of retail shops, offices, retail food court and multiplex. Shops and retail outlets will provide employment opportunities to local youth. This will be the first of its kind in Goa and would serve as a major attraction. The other amenities would comprise of food courts, sufficient parking spaces and landscaped areas.

## **PART A-SPECIFIC CONDITIONS:**

### **Construction Phase**

- i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building bye laws.
- ii. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.



- iv. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- v. Provisions 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, 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.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- viii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- x. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- xi. Sewage shall be treated in the STP with tertiary treatment i.e. Ultra Filtration The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. Excess treated effluent shall be discharged in to Municipal sewer line as per CPCB norms.
- xii. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws. 2016. As proposed, 1 nos. of rain water harvesting tanks of total capacity of 170 m<sup>3</sup> shall be provided as per CGWB guidelines.
- xiii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. 100

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*Ardu*



m<sup>2</sup> space shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.

- xiv. Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.
- xv. A First Aid Room shall be provided in the project both during construction and operations of the project.
- xvi. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
- xvii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- xviii. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xix. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xx. As proposed, no ground water shall be used during construction/ operation phase of the project.
- xxi. Approval of the CGWA require before any dewatering for basements.
- xxii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightening etc.
- xxiii. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- xxiv. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours
- xxv. Ambient noise levels shall conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- xxvi. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks,







Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25 January, 2016. Ready mixed concrete must be used in building construction.

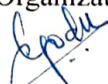
- xxvii. An assessment of the cumulative impact of all activities being carried out or proposed to be carried out by the project, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organisation of repute and specialising in Transport Planning shall be implemented to the satisfaction of the State Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.
- xxviii. A comprehensive mobility plan, as per MOUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
- Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - Traffic calming measures
  - Proper design of entry and exit points.
  - Parking norms as per local regulation

## **II. Operational phase**

- i. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- ii. For indoor air quality the ventilation provisions to be made as per National Building Code of India.
- iii. Fresh water requirement from PWD Water Supply shall not exceed 243 m<sup>3</sup>/day.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- vi. No sewage or untreated effluent water would be discharged through storm water drains.
- vii. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on



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Sewerage and Sewage Treatment Systems, 2013.

- viii. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.
- ix. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- x. Solar power shall be used for lighting the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
- xi. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- xii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species. Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained. As proposed adequate area shall be provided for green belt development.
- xiii. An environmental management plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.
- xiv. The company shall draw up and implement a Corporate Social Responsibility plan as per the Company's Act of 2013.

## **PART B - GENERAL CONDITIONS**

- i. A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- ii. 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 this Ministry and its concerned Regional Office.

- iii. Officials from the Regional Office of MoEF&CC, Bangalore 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 MoEF&CC shall be forwarded to the APCCF, Regional Office of MoEF&CC, Bangalore.
- iv. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry
- v. The Ministry 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- vi. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
- vii. These stipulations would be enforced among others under the provisions of the 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 the EIA Notification, 2006.
- viii. Any appeal against this 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

**2. To decide on representation received from Desa Engineering Works to grant permission for dry dock and barge repair activity in plot bearing Survey No. 30/8 Cortalim, Goa**

The Project Proponent of Desa Engineering Works Shri. Raymond Desa along with their consultant appeared before the Authority and explained the details of the project.

**Decision:** After scrutinizing the documents submitted by the Project Proponent along with the Environment Management Plan and after perusing the Order in the matter of Mr. Salu D'Souza & 2 Anr. v/s The Goa Coastal Zone Management Authority through its Member Secretary & Ors. before the National Green Tribunal in O.A. No.16/2016(WZ), the Authority decided to keep the matter on hold until the matter is disposed off by the Hon'ble NGT.

**3. To decide in compliance of the order dated 21/06/2023 passed by the Hon'ble High Court of Bombay at Goa, in PIL Writ Petition No. 1093 of 2023(F).**

**Decision:** After visiting the site the Authority informed following to the lease holder:

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- i. To demarcate the lease boundary with cement poles/bio-fencing/barbed wire.
- ii. To erect Fencing along the edge where laterite stones are exploited/ mined and has caused steep drop, to prevent accidental fall of persons/animals.
- iii. To provide sanitation facilities to the labourers working on the site.
- iv. To explore the possibility of recharge pits to enrich the ground water.

Further, the Authority found it necessary that an estimation of excavation done on the site in order to check if excavation is more than permitted, as alleged by the complainant. During the site inspection, the representative of Directorate of Mines & Geology had also highlighted the need to check whether any excavation has been carried out from the old pits. Therefore it was decided to write to Directorate of Mines & Geology to give an estimate of the minor mineral (laterite) extracted from the lease area.

*The meeting ended with thanks to chair.*



(Smt. Reshma Mathew)  
**Member, Goa-SEIAA**



(Shri. Suhas Godse)  
**Chairman, Goa-SEIAA**



(Dr. Sneha S. Gitte, IAS)  
**Member Secretary, Goa-SEIAA**

Place: Patto-Panaji

Date: 08<sup>th</sup> August 2023



### **Annexure - 1**

Shri. Suhas Godse

Chairman, Goa-SEIAA

Dr. Sneha S. Gitte, IAS

Member Secretary, Goa-SEIAA

Smt. Reshma Mathew

Member, Goa-SEIAA

### **Annexure - 2**

#### **AGENDA OF THE 110<sup>TH</sup> GOA STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (GOA-SEIAA) MEETING ON 08/08/2023 AT 03.30 P.M. IN THE CONFERENCE ROOM OF THE 4<sup>TH</sup> FLOOR, DEMPO TOWER, PATTO, PANAJI-GOA.**

1. To decide on application for Modification of Environmental Clearance received from DLF Ltd. bearing Plot No. 35, EDS Plot Estate, Patto Plaza, Panaji-Goa.
2. To decide on representation received from Desa Engineering Works to grant permission for dry dock and barge repair activity in plot bearing Survey No. 30/8 Cortalim, Goa
3. To decide in compliance of the order dated 21/06/2023 passed by the Hon'ble High Court of Bombay at Goa, in PIL Writ Petition No. 1093 of 2023(F).
4. Any other matter with permission of the chair.