

**Minutes of the 106th Goa State Expert Appraisal Committee
(Goa-SEAC) meeting held on 19th June 2019 at 10.30 am in the Conference
Room of the Goa Handicrafts Department, Neuginagar-Panaji, Goa.**

The hundred & sixth meeting of the Goa-SEAC was held on 19th June 2019 in the Conference room of the Goa Handicrafts Department, Neuginagar, Panaji at 10.30 a.m. under the Chairmanship of Prof. Suhas Godse. The list of members who attended the meeting is at Annexure – 1.

At the beginning Chairman welcomed the members and requested Secretary, SEAC to proceed as per the Agenda items (refer Annexure – 2).

1. Project specific presentation by **M/s H.L Nathurmal** seeking Environmental clearance for mining lease area 85.85 HA and the proposed capacity of 73,500 tonnes of Iron Ore and manganese at Oilem Aravalem, 48/1/12 bearing survey no. 72-80, Arvalem, Sankhalim, North Goa.

This office is in receipt of application dated 04/06/2019 seeking Environmental clearance for mining lease area 85.85 HA and the proposed capacity of 73,500 tonnes of Iron Ore and manganese at Oilem Aravalem, 48/1/12 bearing survey no. 72-80, Arvalem, Sankhalim, North Goa along with Form I, order of high Court (WP No. 831 of 2018) and order of secretary of mines, a copy of previous Environmental clearance issued by MOEF dated 16/04/2007 and other relevant documents.

Project proponent presented a detailed presentation before the committee. After detailed presentation the committee noted that PP does not propose to increase production and also propose to maintain all the parameters as provided in the EC granted by MoEF in dated 16/04/2007. Further committee decided to visit the site on 22/06/2019 to check site specific conditions.

2. To discuss and decide on compliances dated 07/05/2019 submitted by **Info tech corporation of Goa Limited** for proposed construction of hybrid IT cluster at survey no. 128/1 172 village Penha de Franca, Bardez, Goa. The project details are as follows:

Project Proponent	INFO TECH CORPORATION OF GOA LIMITED
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Name of the project	Hyrbrid IT cluster Survey No 128/1 172 of Villag Penha De Franca
Net Plot Area	Total Plot Area: 12,235 SQM Road widening affected area : 996.83 sqm Net plot area : 11238.17 SqMtrs
Proposed Built-up Area (FSI & Non-FSI)	49970.95 sqm
Ground coverage	Ground coverage : 32 % Ground coverage : 3973.37 Sqm
No. of buildings	2 cluster (A & B)
Height of the building (s)	23.7 Meters
Total Water Requirement	Construction Phase: Total water requirement : 20 CMD Construction :18 CMD and Domestic Use :2 CMD Operation Phase: Fresh Water requirement: 236 Domestic : 70 CMD HVAC (recycled) : Recycled water: Flushing: 56 CMD Gardening: 36 CMD Detailed water table attached in the presentation
Sewage Generation	Total sewage Generated: 126 KLD (STP Capacity 130 KLD)
Solid wastes	Operation Phase : Biodegradable : 431 Kg/day Non-Biodegradable : 287 kg/day Total solid waste : 719 kg/day
Energy	Source: GEB Construction Phase : 120KVA Operation Phase : 2719 KVA DG Power Back-up: 3 Nos. of DG set capacity:1250 KVA each 1 transformer of 1250 KVA and 1 nos of 2000 KVA
RG	7,142.07 sqmtrs
Quantity of soil excavated	35000 cum
Tree details	Trees on site : 18 nos Trees to be cut : 18 nos Trees to be planted : 700 nos.

The committee perused the compliances submitted by PP. Accordingly the committee after detailed discussion and deliberation decided to recommend the said project proposal to Goa-SEIAA for grant of environmental clearance with following specific conditions.

1. PP should prioritize the issues related to health and hygiene in complying with the matters related to waste disposal and treatment / air and water pollution / waste-water management.
2. PP should utilise the treated sewage water from the PWD/SIDC during construction phase only.
3. PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body.
4. E-waste shall be disposed through Authorised vendor as per E-waste (*Management and Handling*) Rules, 2011.
5. Project Proponent (PP) should necessarily make appropriate provision while constructing the roof-tops at the time of construction stage only to enable installation of solar panels towards south facing walls as and when made applicable in future.
6. The Project Proponent shall utilise fly ash bricks in masonry works.
7. The PP shall use construction debris for land filling wherever applicable.
8. 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.
9. 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.

10. 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.
11. 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.
12. 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.
13. 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.
14. The project proponent will provide landscape bed of 600mm wide X 600mm deep along the periphery of the plot to carry out plantation of trees. The treated water from the sewage treatment plant will be pumped through high flow drips on these beds to prevent outflow of treated sewage water outside the premises.
15. PP should implement Dust mitigation measures for construction activities such as:
 - a. Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).
 - b. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
 - c. No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
 - d. Wind-breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided.
 - e. Water sprinkling system shall be put in place.
 - f. Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.

- g. New serial number -107ø has been inserted which relates to Mandatory Implementation of Dust Mitigation Measures for all Construction and Demolition Activities:
- h. Grinding and cutting of building materials in open area shall be prohibited.
- i. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
- j. No uncovered vehicles carrying construction material and waste shall be permitted.
- k. Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.

3. To discuss and decide on EIA report submitted **Goa solid waste Management Corporation** dated 07/05/2019 regarding proposed Solid waste management facility at Bainguinim, Goa.

This office is in receipt of EIA report dated 07/05/2019 prepared by CSIR-NEERI, Nagpur as per the TORs issued by committee on 17/05/2018. The committee decided that the application and EIA report will be considered after submission of minutes of public hearing.

4. To discuss and decide on application along with Form I received from **Goa Solid Waste Management Cell** dated 14/06/2019 requesting issuance of **Terms of Reference (TOR)s** to conduct EIA study for proposed 250 TPD solid waste facility at Verna. The Committee perused the Form I submitted by the PP and decided to issue Terms of reference for conducting rapid EIA. the TORs for conducting rapid EIA are annexed at annexure “A”:

The meeting ended with a vote of thanks to the chair.

Dr. Purushotam Pednekar _____ *Sd/-* _____

Dr. Nitin Sawant _____ *Sd/-* _____

Shri. Dominic Fernandes _____ *Sd/-* _____

Dr. N. Janarthanam

_____ *Sd/-* _____

Sd/-

Shri. Sanjeev Joglekar)
(Secretary Goa-SEAC)

Sd/-

Shri. Suhas Godse
(Chairman Goa-SEAC)

Place: Neauginagar , Panaji

Date: June 2019