

**Minutes of the 90th Goa State Expert Appraisal Committee
(Goa-SEAC) meeting held on 16th February 2018 at 3.30 p.m. in the
Conference Room of the EIA Secretariat, O/o Goa State Pollution Control
Board (GSPCB), Patto-Panaji.**

The ninetieth meeting of the Goa-SEAC was held on 16th February 2018 in the Conference room of the GSPCB at 3.30 p.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. Subsequently, compliances received dated 15th February 2018 from **Goa State Infrastructure Development Corporations (GSIDC)** w.r.t. project proposal seeking prior environmental clearance (EC) for Proposed District and Sessions Court Complex in Survey no.40/1 to 17, 41/1 to 15 and 39/1 to 17 at Mercas, Tiswadi, Goa having (*plot area 20091.00 sq. mt*) and total built up area of (*36524.60 sq. mt*). Brief extract of the project details submitted by Project Proponent is as below:

Sr.No.	Description	Details
1	Name & location of the project	Proposed District and Sessions Court Complex at Mercas, Tiswadi, Goa Location: Survey no.40/1 to 17, 41/1 to 15 and 39/1 to 17, Mercas, Tiswadi, Goa
2	Plot Area	20091.00 m ²
3	Net plot Area	19056.801m ²
4	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	FSI Area: 14016.87m ² Non FSI Area: 22507.73 m ² Total Built up Area: 36524.60 m ² Building configuration & Height of the building 1. Stilt Floor: Parking 2. First Floor: Parking + Offices 3. Second Floor: Court rooms, Adv. Chambers etc. 4. Third Floor: Court rooms, Adv. Chambers etc. 5. Fifth Floor: Court rooms, Adv. Chambers etc.
5	No. of shops	Nil
6	Total water requirement(Construction/operation	Construction phase: 52.75 CMD Operation phase: 84 CMD

	phase)	
7	Sewage generation	<p>Construction phase: 2.20 CMD (Management Plan: Temporary toilet block will be provided. Toilet block will be connected to septic tank. Sewage proposed to be disposed at common STP at Patto)</p> <p>Operation phase: 74 CMD (Management Plan: STP of capacity 100 KLD)</p>
8	STP Capacity	100CMD
9	Total Solid Waste Quantities	<p>Construction phase: Total Waste:25 Kg/day (Will be segregated into Dry & Wet waste) Dry waste: 10 Kg/day (Recyclable waste will be sold of to scrap dealers, Non recyclable waste will be disposed of through the Village Panchayat collection facility) Wet waste: 15 Kg/day (Will be given to Village Panchayat collection facility.)</p> <p>Operation phase: Total Waste:467 Kg/day (Will be segregated into Dry & Wet waste) Dry waste: 187 Kg/day (Recyclable waste will be sold of to scrap dealers, Non recyclable waste will be disposed of through the Village Panchayat collection facility) Wet waste: 280 Kg/day (Will be treated in an automatic Organic Waste Converter of capacity 150 Kg/day X 2 nos.) STP sludge: Will be collected in a sludge tank and disposed off as and when required to common STP at Tonca, Panaji. Or at STP at Patto, Panaji</p>
10	RG Area	--
11	No. of trees	Plot is devoid of any tree cover.
12	Energy Efficiency	LED lights for common areas, Solar street lights
13	Parking 4 W and 2W	326 nos. of car parking space (considering visitors parking)
14	Power requirement	Construction phase: 20 KW

		Operation phase: 460 KW
15	RG Area	--
16	No. of trees	Plot is devoid of any tree cover.
17	Energy Efficiency	LED lights for common areas, Solar street lights
18	Parking 4 W and 2W	326 nos. of car parking space (considering visitors parking)
19	Power requirement	Construction phase: 20 KW Operation phase: 460 KW
20	D.G set Capacity	1 no. X 220 KVA
21	RWH tank capacity	221.400 KL
22	EMP cost (including DMP cost)	4 Cr
23	No. of trees to be cut	Nil
24	No. of trees to be planted on site	--
25	CRZ status	Not applicable

Committee perused the said compliance report submitted by project proponent and was satisfied with point no. 1, 3, 4 and 5 however in respect of point no. 2 committee decided to seek a specific drainage plan with detailed calculation from the Project Proponent considering the fact that the Proposed site is a low lying agricultural field and as such is susceptible to water logging during the monsoon season.

2. Further Compliances received dated 15th February 2018 for Proposed **Super specialty Block** at Goa Medical College, Bambolim, Goa. Brief extract of the project details submitted by Project Proponent is as below:

Sr.No	Description	Details
1	Name & location of the project	Proposed Construction of Super Specialty Block at Goa Medical College, Bambolim, Goa
2	Plot Area	103092.71 m ²
	Net plot Area	99014.71 m ²
4	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	52530.03 m ² 897 m ² 6025.2 m ² 46.65 m
5	No. of shops	500 beds super speciality hospital
6	Total water requirement(Construction/operation phase)	556 KLD during operation phase
7	Sewage generation	290 KLD (234 KLD from Domestic and 56 KLD from Laboratory)
8	STP Capacity	STP capacity : 280 KLD

		ETP capacity : 70 KLD
9	Total Solid Waste Quantities	1583 kg/Day
10	RG Area	60045.49 m ²
11	No. of trees	Tree plantation shall be carried out as per the Government Guidelines during the construction/operation phase and local species would be planted.
12	Energy Efficiency	Energy conservation measures have been proposed by installation of solar panels, solar street lighting, solar water heating etc. All efforts would be made to conserve the energy
13	Parking 4 W and 2W	1050 ECS
14	Power requirement	5000 KVA
15	D.G set Capacity	2 x 2500 KVA
16	RWH tank capacity	Capacity of 1 recharge pit will be 153.86 m ³
17	EMP cost (including DMP cost)	Construction Phase: Rs 12.5 Lakhs Operation Phase: Rs 100 Lakhs
18	No. of trees to be cut	292 no
19	No. of trees to be planted on site	Tree plantation shall be carried out as per the Government Guidelines during the construction/operation phase and local species would be planted.
23	CRZ status	NA

Accordingly Committee perused the compliances submitted by the PP and accepted the same. However it is suggested that the proper enclosure with roofing over the bridge should be provided for all season usage and decided to recommend the said proposal to Goa-SEIAA under the provision of EIA notification 2006 with following specific conditions :

- i. 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.
- ii. PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body..
- iii. E-waste shall be disposed through Authorised vendor as per E-waste (*Management and Handling*) Rules, 2011.
- iv. 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.

- v. The Project Proponent shall utilise fly ash bricks in masonry works.
- vi. The PP shall use construction debris for land filling wherever applicable.
- vii. 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.
- viii. 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.
- ix. 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.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. 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.

3. Further reference received from **Add. Collectors /District Magistrate North** regarding illegal extraction of sand in Camurlim/vagalim, Bardez, Goa. Committee examined the complaint and decided to conduct site inspection with all concerned Authorities.

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

Dr. Nitin S. Sawant _____ *Sd/-* _____

Dr. C.U. Rivonker _____ *Sd/-* _____

Dr. Purushotam Pednekar _____ *Sd/-* _____

Sd/-
Shri. Sanjeev Joglekar)
(Secretary Goa-SEAC)

Sd/-
Shri. Suhas Godse
(Chairman Goa-SEAC)

Place: Patto, Panaji
Date: February 2018