

**Minutes of the 89th Goa State Expert Appraisal Committee
(Goa-SEAC) meeting held on 25th January 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 eighty ninth meeting of the Goa-SEAC was held on 25th January 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, Representative of Shrikhande Consultant & Pvt. Ltd. and *Jog Envirotech (Mr. Omkar Jog)* on behalf of **Goa State Infrastructure Development Corporations (GSIDC)** made the project-specific presentation 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 Mercedes, Tiswadi, Goa having (*plot area 20091.00 sq. mt*) and total built up area of (*36524.60 sq. mt*). Accordingly, representative on behalf of Project Proponent (PP) –presented salient features before the Committee. The project Proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment including air, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under **8a (B2) category of EIA Notification 2006 (building & constructions)**. Further documents like Consolidated statements, Form I and IA, project specific presentation and plans submitted are taken on the record. 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 Mercedes, Tiswadi, Goa Location: Survey no.40/1 to 17, 41/1 to 15 and 39/1 to 17, Mercedes, 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

		<p>2. First Floor: Parking + Offices</p> <p>3. Second Floor: Court rooms, Adv. Chambers etc.</p> <p>4. Third Floor: Court rooms, Adv. Chambers etc.</p> <p>5. Fifth Floor: Court rooms, Adv. Chambers etc.</p>
5	No. of shops	Nil
6	Total water requirement(Construction/operation phase)	<p>Construction phase: 52.75 CMD</p> <p>Operation phase: 84 CMD</p>
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</p>

		Tonca, Panaji. Or at STP at Patto, Panaji
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

However, based on inspection held on 28th December 2017 and subsequent to the project specific presentation, Committee sought compliance with regard to the following:

1. Project Proponent has to submit Commitment /undertaking with supporting documents for road widening and land acquisition.
2. During site inspection committee noted that the construction has already started by PP without prior Environmental clearance (EC) also road is blocked from the other side which should be kept open in order to prevent water logging /flooding since the area is low lying area, Hence project proponent is directed to communicate to Public Work Department (PWD) to open the nallah which has been blocked and the compliance of the same to be submitted back to SEAC.
3. PP has to submit revised landscape plan incorporating native and appropriate species while maintaining proper distance while planting.
4. PP has to submit detailed top soil management plan.

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.

2. Project-specific presentation by Proposed **Super specialty Block** at Goa Medical College, Bambolim, Goa. Accordingly, representative on behalf of Project Proponent (PP) –presented salient features before the Committee. The project Proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment including air, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of EIA Notification 2006.Consolidated statements, Form I and IA project specific presentation and plans submitted are taken on the record. 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

However, based on inspection held on 17th January 2018 and subsequent project specific presentation Committee sought compliance with regard to the following:

1. PP has to submit Disaster Management Plan.
 2. Detailed landscape plan and existing flora number of trees planted and cut.
 3. PP has to submit details on location of biomedical waste also PP has to ensure that facility for storage of biomedical waste at every ward. Location of such facility should not be within premises of the hospital.
 4. PP has to submit a plan on systematic collection, number of bins used for same with colour codes.
 5. Details on provision for toilet facility for labours during construction stage.
 6. PP should submit detailed disaster management plan with provision for assembly points in case of emergency.
 7. Details on interconnectivity of the building and widening of the road.
 8. 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.
3. Project-specific presentation for proposed **beach resort** by **Mr. Cedrick Jorden** in the property bearing S.Y No. 104/3-A Nagorcem, Palolem, Canancona, Goa. Accordingly, representative on behalf of Project Proponent (PP) –presented salient features before the Committee. The project Proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment including air, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of EIA Notification 2006.Consolidated statements, Form I and IA project specific presentation and plans submitted are taken on the record. Brief extract of the project details submitted by Project Proponent is as below:

Sr.no	Project Proponent	MR. CEDRICK JORDAN DA SILVA
1	Name of the project	Proposed Beach Resort in property bearing survey no.104/3-a situated at Nagorcem Palolem, village of Canacona Taluka, Goa.
2	Net Plot Area	area of plot – 7173.0 sq.mts. road widening – nil Effective Plot area – 7173.0 sq.mts.
3	Proposed Built-up Area (FSI & Non-FSI)	Permissible FSI – (33 %) -2367.09 sq.mts. Proposed Built-up area for FSI=2360.0sq.mts (32.90%) Proposed Built-up Area for

		Non -FSI=1417.67sq.mts																					
4	Ground coverage	Ground coverage permissible=(33%)=2367.09sq.mts ground coverage proposed=1582.54sq.mts(22.06%)																					
5	No. of buildings	12 Nos.																					
6	Height of the building(s)	Max.9.0mts Height																					
7	Total Water Requirement in Detail	<p>Construction phase Water source: PWD connection</p> <table border="1"> <thead> <tr> <th>Consumption</th> <th>Requirement(KLD)</th> </tr> </thead> <tbody> <tr> <td>Population-30 nos.</td> <td>1.26</td> </tr> <tr> <td>Construction activity</td> <td>15</td> </tr> <tr> <td>Total</td> <td>16.26 KLD</td> </tr> </tbody> </table> <p>Operational Phase Water source: PWD connection Alternate source: Water tanker</p> <table border="1"> <thead> <tr> <th>consumption</th> <th colspan="2">Requirement(KLD)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">5 villas and 22 single bedroom flats 5x5=25 22x3=66 =91 occupants</td> <td>Domestic purpose</td> <td>8.0(@90 lpcd)</td> </tr> <tr> <td>Flushing purpose</td> <td>4.0(@45 lpcd)</td> </tr> <tr> <td>Total</td> <td>12KLD</td> </tr> </tbody> </table>	Consumption	Requirement(KLD)	Population-30 nos.	1.26	Construction activity	15	Total	16.26 KLD	consumption	Requirement(KLD)		5 villas and 22 single bedroom flats 5x5=25 22x3=66 =91 occupants	Domestic purpose	8.0(@90 lpcd)	Flushing purpose	4.0(@45 lpcd)	Total	12KLD			
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8	Sewage Generation	<p>Construction phase=1.13 KLD Operational phase=10.80 KLD A STP of 15 KLD is proposed</p>																					
9	Solid wastes	<p><u>Construction phase</u></p> <table border="1"> <thead> <tr> <th>Category</th> <th>Approx. Quantity</th> <th>Management Plan</th> </tr> </thead> <tbody> <tr> <td>Workers – 30 nos.</td> <td>10 Kg/day</td> <td>Segregation into dry and wet waste</td> </tr> <tr> <td>Wet waste</td> <td>4 Kg/day</td> <td>Will be treated in temporary on-site composting pit.</td> </tr> <tr> <td>Dry waste</td> <td>6 Kg/day</td> <td>Will be disposed off through Municipality</td> </tr> </tbody> </table> <p><u>Operational phase</u></p> <table border="1"> <thead> <tr> <th>Category</th> <th>Approx. Quantity</th> <th>Management Plan</th> </tr> </thead> <tbody> <tr> <td>Occupants – 91 nos.</td> <td>45.5 Kg/day</td> <td>Segregation into dry and wet waste</td> </tr> <tr> <td>Wet waste</td> <td>18.2 Kg/day</td> <td>Will be treated on-site composting pit.</td> </tr> </tbody> </table>	Category	Approx. Quantity	Management Plan	Workers – 30 nos.	10 Kg/day	Segregation into dry and wet waste	Wet waste	4 Kg/day	Will be treated in temporary on-site composting pit.	Dry waste	6 Kg/day	Will be disposed off through Municipality	Category	Approx. Quantity	Management Plan	Occupants – 91 nos.	45.5 Kg/day	Segregation into dry and wet waste	Wet waste	18.2 Kg/day	Will be treated on-site composting pit.
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		Dry waste	27.3 Kg/day	Will be disposed off through Municipality
		STP Sludge	0.75 Kg/day	After dewatering of sludge in Sludge drying bed it will be used as manure for landscaping.
10	Energy	1) All common area and landscape lights are with solar panels and LED light fixtures. 2) Solar panel water heating devices are used. 3) Grey water recycling is done and used for flushing and irrigating gardens and washing roads and paved pathways 4) Water harvesting will be done during rainy season and is stored in storage tanks used for non drinking purpose or divert it to ground water recharge pits and excess water will be drained through proper channeling in the adjacent fields.		
11	RG CODE	-		
12	Quantity of soil excavated	4036.0 cu.mts		

However, based on inspection held on 09th December 2017 and subsequent presentation Committee sought compliance with regard to the following:

1. PP has to submit details on road widening.
 2. 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.
 3. 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 should be done.
 4. PP has to submit detailed STP technology and proposed biogas composting facility.
4. Project-specific presentation for proposed construction of **Eco Boutique Resort & SPA** in the plot bearing Sy. No. 109/1 situated at Betalbatim Village, Salcete – Goa by Sane Antao. Accordingly, representative on behalf of Project Proponent (PP) –presented salient features before the Committee. The project Proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment including air, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of EIA Notification 2006.Consolidated statements, Form I and IA project specific presentation and plans submitted are taken on the record. Brief extract of the project details submitted by Project Proponent is as below:

Sr. No.	Description	Details			
1	Name & location of the project	Eco Boutique Resort & Spa. Survey No. 109/1, Betalbatim Village, Salcete Taluka, Goa. Latitude:15°17'46.29"N Longitude:73°54'40.45"E			
2	Plot Area	11,250 sq.m			
3	Net plot Area	11,250 sq.m (8362.4 sq.m in CRZ & 2887.60 sq.m outside CRZ)			
4	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	FSI Area:	2745.80 sq.m in CRZ 1415.82 sq.m outside CRZ		
		Non-FSI Area:	799.32 sq.m in CRZ 117.92 sq.m outside CRZ		
		Total construction Area:	5148.86 sq.m		
		Building configuration & Height of the building:	Amenities	Description	No. of floors
			Unit A	8 nos. of cottages each having two rooms	Ground Floor
Unit B	1 cottage as house-keeping and laundry room		Ground Floor		
Unit C	24 nos. of rooms for double occupancy, a restaurant, a gymnasium, a conference room, a spa and an administration office		Ground Floor + First Floor		
5	No. of shops	01 NO.S			
6	Total water requirement (Construction/operation phase)	Construction Phase: 20 KLD Operation Phase: 26 KLD			
7	Sewage generation	Construction Phase: 1 KLD Operation Phase: 24 KLD			
8	STP Capacity	30 KLD			
9	Total Solid Waste Quantities	Construction Phase: 15 Kg/day Operation Phase: 87 Kg/day			
10	RG Area	2271 sq.m			

11	No. of trees	115 (coconut tree)
12	Energy Efficiency	Proposed to comply and use non-conventional Energy (Solar power for Common area lighting) and Water Heating Solar water heaters, LED lights, Solar lights
13	Parking 4 W and 2W	21 nos. cars
14	Power requirement	Construction Phase: 20 KVA Operation Phase: 1200 KVA
15	D.G set Capacity	20 KVA
16	RWH tank capacity	Nil
17	EMP cost (including DMP cost)	Capital cost: Rs. 18,53,410 p.a. Recurring cost: Rs. 7,96,000 p.a.
18	No. of trees to be cut	04
19	No. of trees to be planted on site	50
23	CRZ status	The proposed project is a regulated permissible activity as per Clause 8 (III) B (i) of CRZ notification 2011. The part of the project within CRZ-III requires CRZ clearance.

However, based on inspection held on 09th December 2017 and subsequent presentation Committee sought compliance with regard to following:

1. PP has to submit parking details and allow separate parking space.
2. 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.
3. 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.
4. PP has to submit details on proposed vermin composting facility.
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.

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

Dr. Nitin S. Sawant

_____ *Sd/-* _____

Dr. C.U. Rivonker

_____ *Sd/-* _____

Prof. M.K. Janarthanam

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