

Agenda Items for the 41st Goa-State Environment Impact Assessment Authority (Goa-SEIAA) meeting held on 05th February 2018

1. To deliberate on SEAC's recommendations w.r.t. proposals submitted by

- a. M/s G. N. Constructions, Mumbai** project proposal seeking prior environmental clearance (EC) for a building construction project (*total plot area – 26,839 sq.mts., BUA – 39,179.85 sq.mts.*) (**Plot – A**) and (**Plot B**) (*total plot area – 16,322 sq.mts., BUA – 22,354.53 sq.mts.*) Proposed at survey no. 31/1-A-1 in Pilerne village, Bardez Taluka.

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	Description	Details
1	Name & location of the project	Proposed Building Construction project by G.N. Construction – Plot A Location: Plot A of Sy.no.31/1-A-1 of Pilerne Village, Bardez Taluka, Goa Latitude: 15°31'54.42"N Longitude: 73°49'4.71"E
2	Plot Area	32585.00 Sq.mtrs
	Net plot Area	26839.00 Sq.mtrs
4	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	FSI Area:24525.04Sq.mtrs Non FSI Area:14900.16Sq.mtrs Total Built up Area: 39425.20Sq.mtrs Building configuration & Height of the building 3 BHK flats: 44 nos. (Stilt + 4 Floor) 2BHK flats: 188 nos. (Stilt + 4 Floor) 1 BHK flats: 56 nos. (Stilt + 4 Floor) Shops: 25 nos.

		Villas (4 BHK): 4 nos. Villas (3 BHK): 4 nos. Community hall: 1 no. (G + 2)
5	No. of shops	25 nos.
6	Total water requirement(Construction/operation phase)	Construction Phase: Total water requirement : 36 cmd Operation Phase:157 Fresh Water requirement: Domestic : 90 KLD Swimming Pool water requirement: 10 KLD Recycled water: Flushing: 67 KLD Gardening: 50 KLD Internal Road washing; 8 KLD Waste Water Generation : 72 KLD
7	Sewage generation	Construction phase: 1.2 cu.m per day Operation phase: 157cu.m per day
8	STP Capacity	160cu.m per day MBBR Technology
9	Total Solid Waste Quantities	Total Waste:636 Kg/day Dry waste: 382 Kg/day Wet waste: 254 Kg/day STP sludge: 15 Kg/day
10	RG Area	--
11	No. of trees	Existing: 85 nos.
12	Energy Efficiency	Solar water heaters, LED lights, Solar lights
13	Parking 4 W and 2W	429 nos. of car parking space (considering visitors parking)
14	Power requirement	3000 KVA
15	D.G set Capacity	1 no. X160 KVA
16	RWH tank capacity	300cu.m per day
17	EMP cost (including DMP cost)	4 Cr
18	No. of trees to be cut	28 nos.
19	No. of trees to be planted on site	192 nos.
23	CRZ status	Not applicable

During site inspection held on 23rd September 2017 it was noted that the total plot area is 50,000 Sq. mts which the PP has submitted 2 applications as (Plot A and Plot B) respectively in survey no. 31/1-A-1 of Pilerne Village, which is separated by a proposed road. Further post-presentation clarification sought during 85th Committee meeting held on 13th October 2017 Project Proponent had submitted the compliance report. The revised details has submitted during the presentation have been taken on record. Accordingly the Committee perused the compliance forwarded by Project Proponent after detailed discussions and deliberations, the Committee decided to recommend the

proposal to the Authority for the grant of prior environmental clearance (EC) with following specific conditions.

- i.** Considering the scale of the project, the PP may consider an appropriate budgetary allocation benefiting the local communities. The details of the same may be submitted to the Authority.
- ii.** 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.
- iii.** PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body..
- iv.** E-waste shall be disposed through Authorised vendor as per E-waste (*Management and Handling*) Rules, 2011.
- v.** 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.
- vi.** The Project Proponent shall utilise fly ash bricks in masonry works.
- vii.** The PP shall use construction debris for land filling wherever applicable.
- viii.** 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.
- ix.** 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.

- x. 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.
- xi. 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.
- xii. 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.
- xiii. 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.
- xiv. 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.

In view of the above Authority may discuss and deliberate.

- b. M/s G. N. Constructions, Mumbai** project proposal seeking prior environmental clearance (EC) for a building construction project (*total plot area – 16,322 sq.mts., BUA – 22,354.53 sq.mts.*) Proposed at survey no. 31/1-A-1 (**Plot – B**) in Pilerne village, Bardez taluka. 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 Building Construction project by G.N.Construction – Plot B Location: Plot B of Sy.no.31/1-A-1 of Pilerne Village, Bardez Taluka, Goa Latitude: 15°31'52.08"N Longitude: 73°49'3.53"E
2	Plot Area	17202.00 Sq.mtrs
	Net plot Area	16322.00 Sq.mtrs
4	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	FSI Area:13175.27Sq.mtrs Non FSI Area:9179.26Sq.mtrs Total Built up Area: 22354.53 Sq.mtrs Building configuration & Height of the building 3 BHK flats: 32 nos.(Stilt + 4 Floor) 2BHK flats: 96 nos. (Stilt + 4 Floor) 1 BHK flats: 56 nos. (Stilt + 4 Floor) Villas (3 BHK): 4 nos.
5	No. of shops	Nil
6	Total water requirement(Construction/operation phase)	Construction Phase: Total water requirement : 22.4 cmd Operation Phase: Fresh Water requirement: Domestic : 102 KLD Swimming Pool water requirement: 10 KLD Recycled water: Flushing: 35 KLD Gardening: 30 KLD Internal road washing : 9 KLD Car Park and ors: 5 KLD.
7	Sewage generation	Operation phase:85 cu.m per day
8	STP Capacity	105cu.m per day MBBR Technology

9	Total Solid Waste Quantities	Total Waste:403 Kg/day Dry waste: 242 Kg/day Wet waste: 161 Kg/day STP sludge: 9 Kg/day
10	RG Area	--
11	No. of trees	Existing: 41 nos.
12	Energy Efficiency	Solar water heaters, LED lights, Solar lights
13	Parking 4 W and 2W	246 nos. of car parking space (considering visitors parking)
14	Power requirement	1800 KVA
15	D.G set Capacity	1 no. X125 KVA
16	RWH tank capacity	200cu.m per day
17	EMP cost (including DMP cost)	3.5 Cr
18	No. of trees to be cut	20 nos.
19	No. of trees to be planted on site	153 nos.
23	CRZ status	Not applicable

During site inspection held on 23rd September 2017 it was noted that the total plot area is 50,000 Sq. mts which the PP has submitted 2 applications as plot A and Plot B respectively in survey no. 31/1-A-1 of Pilerne Village, which is separated by a proposed road. Further post-presentation clarification sought during 85th Committee meeting held on 13th October 2017 Project Proponent had submitted the compliance report. The revised details has submitted during the presentation have been taken on record. Accordingly the Committee perused the compliance forwarded by Project Proponent after detailed discussions and deliberations, the Committee decided to recommend the proposal to the Authority for the grant of prior environmental clearance (EC) with following specific conditions.

- i.** Considering the scale of the project, the PP may consider an appropriate budgetary allocation benefiting the local communities. The details of the same may be submitted to the Authority.
- ii.** 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.
- iii.** PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body. 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.

In view of the above Authority may discuss and deliberate.

c. Goa Tourism Development Corporation Ltd.(GTDC) project proposal for permission for proposed development of Anjuna property i.e. 5 star Resort at S.Y. No. 206/1-H, 210/5-A, 211/1, 211/2, 211/3, 211/4, 211/5, 211/6, 211/7, 211/8, 212/2, 212/3, 212/4,212/6 of Anjuna village , Bardez, Taluka .

Project Description: The KPMG report commission by GTDC states that in 2013 Goa attracted almost 31.2 lakhs tourists, with 4.9 lakhs foreign and 26.3 lakhs domestic tourists. Over the last five years, the total number of tourists visiting Goa has increased at a Compounded Annual Growth Rate (CAGR) of 4.5 percent.

The actual tourists arrivals in the year 2014 is 4058226 in nos of which 3544634 in nos are domestic and 513592 in nos of foreign tourist and The actual tourist arrivals in the year 2015 is 5297902 in nos of which 4756422 in nos are domestic and 541480 in nos of foreign tourist and The actual tourist arrivals in the year 2016 is 6330744 in nos of which 5650061 in nos are domestic and 680683 in nos of foreign tourist.

In all there are 2399 Five Delux rooms and 956 5star rooms existing in the state of Goa. There are about 12 Hotels rated as 5 Star & 13 Hotels as 5 Star A Deluxe categories in North Goa with 1577 rooms, none of which is in Anjuna Village. In this respect, GTDC has derived “Anjuna” by the lack of such facilities as one of the prime and undeveloped vantage beach properties of GTDC with panoramic view of the Arabian Sea.

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. The revised details have submitted during the presentation have been taken on record. Brief extract of the project details submitted by Project Proponent is as below:

Project Proponent	Goa Tourism Development Corporation
Name of the project	Development of 5 Star Resort at Anjuna, Goa
Net Plot Area	Total Plot Area: 70367.00sq.m NET Plot Area: 70074.10sq.m
Proposed Built-up Area (FSI & Non-FSI)	Permissible FAR area (sq. m.): 23221.11 Proposed FAR area (sq. m.): 22,900.00 Total Construction Area (sq.m) : 36,613.00
Ground coverage	Permissible ground coverage : 33 % Covered area : 8561.48 sq.m

	Ground coverage : 12.92 %
No. of buildings	5 star resort, 240 rooms along with restaurant, coffee shop, Banquets & swimming pool.
Height of the building (s)	9m
Total Water Requirement	<p>Construction Phase: Total water requirement : 28 cmd</p> <p>Operation Phase: Fresh Water requirement: Domestic : 240 KLD Swimming Pool water requirement: 15 KLD Laundry : 10 KLD</p> <p>Recycled water: Flushing: 63 KLD Gardening: 80 KLD C.T Make up water: 112 KLD</p> <p>Total water Requirement: 520 KLD</p>
Sewage Generation	Total sewage Generated: 255 KLD (STP Capacity 270 KLD) MBBR Technology ETP for Laundry Effluent : 10 KLD Chemical Treatment followed by treatment in STP
Solid wastes	<p>Operation Phase : Biodegradable : 367.6 Kg/day Non-Biodegradable : 176.7 kg/day Total solid waste : 544 kg/day</p>
Energy	<p>Source: GEB Construction Phase :50 KW Operation Phase :1750 KW DG Power Back-up: 2 Nos. of DG set capacity:1500 KVA each</p>
RG	26829.5 sq mt
Quantity of soil excavated	35000 cum
Tree details	Trees on site: 275 nos. Trees to be cut: 147 nos. Trees to be planted: 700 nos.

Project Proponent had submitted the compliance report. in response to site inspection held on 23rd September 2017 vis –a vis post-presentation clarification sought during 85th Committee meeting held on 13th October 2017 Accordingly the Committee perused the compliances forwarded by **Goa Tourism Development Corporation (GTDC)** after detailed discussions and deliberations the Committee decided to recommend the proposal to the Authority for the grant of environmental clearance (EC) and to Goa Coastal Zone Management Authority (GCZMA) with following specific conditions.

- i.** Considering the scale of the construction proposed the movement of heavy vehicles and building materials during construction phase to the site shall be strictly during non-peak hours.
- ii.** Considering the scale of the project, the PP may consider an appropriate budgetary allocation benefiting the local communities. The details of the same may be submitted to the Authority.
- iii.** 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.
- iv.** PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body. E-waste shall be disposed through Authorised vendor as per E-waste (*Management and Handling*) Rules, 2011.
- v.** 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.
- vi.** The Project Proponent shall utilise fly ash bricks in masonry works.
- vii.** The PP shall use construction debris for land filling wherever applicable.
- viii.** 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.
- ix.** 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.
- x.** 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.
- xi.** 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.

- xii. 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.
- xiii. The PP should install an online monitoring system to check water quality of treated water from the STP in consultation with Goa State Pollution Control Board (GSPB).
- 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. 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.

In view of the above Authority may discuss and deliberate.

d. M/s Classic Square Realty permission for proposed construction project (*total plot area – 15,568 sq.mts., BUA – 26,864.86 sq.mts.*) proposed on land bearing P.T. sheet no. 26 of Chalta nos. 3, 3A & 3B of Mapusa.

1. 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.	Description	Details
1	Name & location of the project	Proposed Building Construction project by Classic Squares Realty Pvt. Ltd. Location: P.T. sheet no.26 of Chalta nos. 3,3A and 3 B,

		Mapusa City, Bardez Taluka, Goa Latitude: 15.609006° Longitude: 73.814667°
2	Plot Area	15568.00Sq.mtrs
	Net plot Area	15568.00Sq.mtrs
4	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	FSI Area:15542.43 Sq.mtrs Non FSI Area:11322.43 Sq.mtrs Total Built up Area: 26864.86 Sq.mtrs Building Configuration: 2BHK – 138 nos. of flats, 3 BHK flats – 50 nos., Gym/Club house and a community hall. Height of Building: Stilt + 5 floors
5	No. of shops	Nil
6	Total water requirement(Construction/operation phase)	Construction phase: 20 cum per day Operation phase: 113.470 cum per day Domestic Water Req: 74 KLD Swimming Pool: 10 KLD Flushing : 39 KLD Gardening: 30 KLD
7	Sewage generation	Construction phase: 2.7 cum per day Operation phase:106.057 cum per day
8	STP Capacity	120 cum per day by Suspended Media Moving Bed Bio Reactor Technology (MBBR)
9	Total Solid Waste Quantities	Construction phase: Total Waste: 25 Kg/day Dry waste: 15 Kg/day Operation phase: Total Waste: 453.5 Kg/day Dry waste: 272 Kg/day Wet waste: 181.5 Kg/day STP sludge: 10 Kg/day
10	RG Area	---
11	No. of trees	Existing: 283 nos.
12	Energy Efficiency	Solar water heaters, LED lights, Solar lights

13	Parking 4 W and 2W	254 nos. of car parking space (considering visitors parking)
14	Power requirement	1800 KVA
15	D.G set Capacity	1 no. X125 KVA
16	RWH tank capacity	210 cum per day
17	EMP cost (including DMP cost)	2 Cr
18	No. of trees existing	283nos
19	No. of trees to be cut	133 nos.
20	No. of trees to be planted on site	258 nos.
21	CRZ status	Not applicable

However, during previous meeting committee decided to re visit the proposed site to check actual ground reality before taking any further decision in the matter subsequently members of Goa-SEAC re inspected the proposed site on 23rd November 2017 The revised details has submitted during the presentation have been taken on record. Accordingly the Committee perused the compliance forwarded by Project Proponent after detailed discussions and deliberations, the Committee decided to recommend the proposal to the Authority for the grant of prior environmental clearance (EC) with following specific conditions.

- i. Considering the scale of the project, the PP may consider an appropriate budgetary allocation benefiting the local communities. The details of the same may be submitted to the Authority.
- ii. 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.
- iii. PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body. 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.

In view of the above Authority may discuss and deliberate.

2. **M/s Sapna Ceramics Pvt. Ltd.**, proposed environmental clearance (EC) for capacity enhancement (i.e. from 1,250 tons per day to 2,500 tons per day) after amalgamation of three lease and one new lease. (on perusal of the said application, it was noted that prior EC was granted during March 2013 to three minor mineral leases under Renewal – 10/basalt/93 (10,000 m²), 03/basalt/94 (29,225 m²) & 02/basalt/98 (22,000 m²) belonging to M/s Sapna Ceramics and one New lease – 01/basalt/15 (50,000 m²) belonging to M/s Nanu Industries with total production capacity of 1,250 tons per day.

During site inspection held on 29th September 2017 committee noted that the Project Proponent proposes capacity enhancement (i.e. from 1,250 tons per day to 2,500 tons per day) after amalgamation of four leases. Letter dated 12/10/2017 from Directorate of Mines & Geology stating Change in Name from Nanu Industries to Sapna Ceramic Pvt. Ltd. was taken on record during presentation. Vide letter no. Go-519 & 566/Reg-111(3)/11-15 from DGMS office, Fatorda, Margao Goa, stating working upto common boundary with Nanu Industries Further post-presentation clarification sought during 85th Committee meeting held on 13th October 2017 Project Proponent had submitted the compliance report. The revised details has submitted during the presentation have been taken on record. With regard to the legal court cases and queries raised by committee PP has submitted that the **MoEF vide S.O 615 (E) dated 25th January 2015** has notified 1 Km around eco sensitive zone from Bondla wild life sanctuary whereas the lease is 1.516 Km from the Bondla wild life sanctuary as per letter dated 10/06/2013 from Dy. Conservator of Forests, North Goa, Ponda, Goa. Further the MoEF has clarified vide Notification dated **15th January 2016** has classified mining on Minor Mineral as category of B2 upto 25 Hectares whereas the present lease is works out to b 11.1225 Hectares. The Project Proponent has submitted the six monthly compliance report in compliance to the earlier Environmental Clearance issued. Accordingly the Committee perused the compliances forwarded by Project Proponent after detailed discussions and deliberations, the Committee decided to recommend the proposal to the Authority for the grant of prior environmental clearance (EC) with following specific conditions:

- i. The lease holder should ascertain on-site demarcation and construction of lease boundary with cement poles / bio-fencing / barbed wire for the proposed leased area in question. The lease boundary may be subsequently geo-referenced for precise

- positioning and ground-truth verification. As such, the lease holder should ensure that minor mineral quarrying operations are restricted within the prescribed lease boundary.
- ii. The lease holder should ensure construction of approach road / proper access to enable transportation of quarried material from site to desired destination and/or crushing unit, as applicable.
 - iii. The lease holder should comply with the proposed plan of action / modus operandi for extraction of basalt stones within the available lease boundary limits in terms of provisions of Mines and Safety Rules / Guidelines, as applicable.
 - iv. The lease holder shall undertake adequate safeguard measures during extraction of material and ensure that due to this activity, the hydro-geological regime of the surrounding area shall not be affected / altered / polluted. Regular monitoring of groundwater levels and its physic-chemical quality parameters shall be carried out around the mine lease area (minimum two locations of permanent water sources / open well / borewell). If there are no groundwater sources, then nearest perennial surface water sources (i.e. stream / river / pond / lake / reservoir / irrigational canal) should be monitored for the similar parameters on quarterly basis and/or seasonally (i.e. pre-monsoon / monsoon and post-monsoon).
 - v. The lease holder shall implement air pollution control measures / dust minimizing initiatives / noise control measures, wherever applicable, within the lease area as well as establish adequate buffer zone around the lease boundary to minimize such pollution hazards. It should be ensured that the Ambient Air Quality (AAQ) parameters (to be measures in January, April and November every-year) as well as Noise parameters conform to the norms prescribed by the Central Pollution Control Board (CPCB) and Noise Pollution (Control) Rules, 2000 respectively.
 - vi. The PP should carry out controlled blasting only between 1 pm to 3 pm.
 - vii. Overburden /mine waste should be stored separately and shall be used for back filling of the mining pit.
 - viii. Existing dust suppression to be maintained.
 - ix. Dust extraction system to be used in drill machine.
 - x. Use of sharp drill bits for drilling holes and drills with water flushing system (wet drilling) to reduce dust generation.

- xi. Regular water spraying on the roads connected with quarry and crushing area during transportation of stones.
- xii. The heavy vehicles are the main sources for release of carbon monoxide and nitrite oxide , so to avoid the increase of pollutant in the site the vehicles will be maintained properly and regularly.
- xiii. Vehicles with valid PUC will be used for transportation.
- xiv. Cover the truck with tarpaulin.
- xv. Near the stock piles (temporary storage of the products on the crusher site) mist spray will be provided at the appropriate places for preventing dust pollution during handling of the product.
- xvi. Dust suppression system (water spraying) to be adopted at site while loading and use of sharp teeth for shovel.

- xvii. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with Forest Department / Zonal Agricultural Office, as applicable.
- xviii. The Lease Holder shall maintain the existing electronic weigh bridge at site and necessary details should be submitted on weekly basis to the Department of Mines and Geology.

3. To discuss and deliberate on the communication received from Venkat Mupanna regards to **M/s Umia Developers Pvt. Ltd.**, - for the proposed developmental activity in Sancoale area.

for the proposed developmental activity in Sancoale area. The SEAC has conducted the site-inspection on 16th August 2016. Thereafter, project-specific presentation was held during 75th SEAC meeting held on 22nd September 2016 with a request to submit compliance to following observations –

- 1) Provide NOC for water supply from Public Works Department (PWD).
- 2) Provide a copy of NOC for bore-well from competent authorities with details of depth proposed for bore well based on hydro geological studies.

- 3) Note on efficiency of sanitation systems with reference to technology proposed with overall saving expected vis-a vis occupancy load scenarios.
- 4) Detailed calculation on energy conservation measures.
- 5) Furnish details on ephemeral flush vegetation once ready.
- 6) Considering the scale of the project, the PP may consider an appropriate budgetary allocation benefiting the local communities. The details of the same may be submitted to the Authority.
- 7) Labour population and camps during the construction of the project.
- 8) A detail water balance calculation for different scenarios.
- 9) Provide sectional drawings for cutting and filling operation for construction with all existing and proposed levels along with quantity of soil to be excavated and filled.
- 10) Provide Smoke exhaust details in the building (positive pressure ventilation).
- 11) Provide Disaster Management plan for evacuation of occupants.
- 12) Obtain D.G.C.A letter of consent/information about the high rise structure.
- 13) Provide details on Compartmentations in building by way of smoke stop doors.
- 14) Provide detailed traffic management plan including peak hour movements

The PP has submitted the compliance to above-referred observations vide letter no. Nil dated 9th November 2016 (*received on 14th November 2016*). SEAC has perused / discussed the same during its 81st meeting held on 29th November 2016 and accordingly was recommended to Authority for grant of EC. The Authority during its 36th meeting scheduled on 6th December 2016 deferred the decision for want of time to peruse relevant project details in light of its validity expiring by 8th December 2016. The Authority after detailed discussion and deliberation decided to communicate to the PP whether the PP wants to go ahead with the proposed activity and the proposal to be taken up for consideration only after receipt of suitable response to the letter. In case, no reply is received within a time-limit stipulated in the letter, it will be presumed that PP is not interested.

1. To discuss and deliberate on the communication received from **M/s John Distilleries** for proposed expansion in the production capacity at a unit located at Cuncolim Industrial estate, Cuncolim. for proposed expansion in the production capacity at a unit located at Cuncolim Industrial estate, Cuncolim. The site was visited by SEAC on 25th October 2016 and subsequently, PP made the project-specific presentation during the 80th meeting held on 22nd November 2016. Accordingly, the PP was requested to submit compliance to (a) Documentary evidence for approved boiler attendants, (b) Operational mechanism for scientific disposal of additional solid (*boiler waste / fermentation residues*) effluents generated during process and (c) Submit revised CSR Plan. Subsequently, the PP replied to these observations *vide letter no. JDPL/SEAC/16-17/003 dated 30th November 2016* which were considered during 82nd meeting held on 1st December 2016 and was recommended to Authority for grant of EC. The Authority during its 36th meeting scheduled on 6th December 2016 deferred the decision for want of time to peruse relevant project details in light of its validity expiring by 8th December 2016. The Authority after detailed discussion and deliberations decided to communicate to the PP with directions to submit compliance to observations made by Goa-SEAC during its 80th meeting held on 22nd November 2016 w.r.t. operational mechanism for scientific disposal of additional solid (boiler waste / fermentation residues) effluents generated during process within a period of 45-days from the date of receipt of communication from the Goa-SEIAA. If the PP submits the said within time-limit, the said compliance report to be forwarded to the Goa-SEAC who will verify and inspect the site, for strict implementation of this observation. In case, the PP fails to submit the said compliance within the time-limit, the proposal shall be deemed to be rejected.

2. To discuss and deliberate on the communication received from **M/s Mahadhan Real Estate** for construction activity proposed at Chimbel, Tiswadi taluka, North Goa district.
 1. for construction activity proposed at Chimbel, Tiswadi taluka, North Goa district. SEAC conducted the site-inspection on 9th June 2016 and thereafter, during its 68th meeting held on 16th June 2016, decided that PP needs to make project specific presentation w.r.t. following –
 - (i) Empirical calculations for water / electricity requirements (% savings)
 - (ii) Energy conservation measures (in figures)

- (iii) Disaster management initiatives
- (iv) CSR initiatives and proposed budget estimate
- (v) Avifaunal inventory and species listing of tall trees at the site.
- (vi) Storm-water management and groundwater recharge.
- (vii) Cut and fill-section of the proposed layout.
- (viii) Alternate access to the property from Chimbel village, if any.

Later, the PP submitted the compliance to site-inspection observations vide letter no. Nil dated 20th October 2016 (*received on 26th October 2016*). The project-specific presentation was scheduled on 75th SEAC meeting held on 22nd September 2016. However, based on the official communication conveying inability to do so, the same has been decided to re-schedule. New date is yet to be finalized. Subsequently, it was held during 77th SEAC meeting held on 20th October 2016 wherein PP was requested to submit compliance to (i) Provide a detail of modalities of treatment of potable water as of now and to the long run and (ii) Provide details of Compartmentations in building by way of smoke stop doors prior to further processing the same. Thereafter, the PP submitted the post-presentation compliance vide letter no. Nil dated 3rd November 2016. These compliances were taken up for discussions during 78th SEAC meeting held on 3rd November 2016 and was recommended to Authority with additional compliance to be submitted by the PP w.r.t. structural details of the impounding reservoir as proposed. Subsequently, the PP vide letter no. Nil dated 21st November 2016 to the said observation which was perused during 80th SEAC meeting held on 22nd November 2016. The Authority during its 36th meeting scheduled on 6th December 2016 deferred the decision for want of time to peruse relevant project details in light of its validity expiring by 8th December 2016. After detailed discussion and deliberations Authority decided to communicate to the PP whether the PP wants to go ahead with the proposed activity and the proposal to be taken up for consideration only after receipt of suitable response to the letter. In case, no reply is received within a time-limit stipulated in the letter, it will be presumed that PP is not interested.

3. To deliberate /decide on Personal hearing given to **M/s Nestle India Ltd.** during Authorities previous meeting (40th-Goa SEIAA) held on 17th January 2017.
4. Communication/reply received from **M/s Alcon Construction** dated 29/01/2018 with reference to the letter issued by this authority on 24/01/2018.
5. Communication received from Goa Coastal Zone Management Authority (GCZMA) on for rectification of NOC for construction of dry dock and barge repair activity from **M/s Desa Engineering Works** based on the Judgement of H'ble High Court of Bombay, Goa Branch in PIL Writ Petition Nos. 6 and 10 of 2013 filed against the proponent M/s Desa Engineering Works.
6. Communication dated 12/01/2018 regarding revalidation of **EC** for **M/s Mahindra & Mahindra Ltd.**, Mahindra Towers,17/18, Pattulos Road, Chennai –The Authority had earlier issued EC for five years for Proposed construction of Eco-resort in Survey nos. 16 & 7 of Moitem village in Bardez taluka.
7. Any other matter with the permission of the Chair.