

Minutes of the 55th Goa-State Environment Impact Assessment Authority (Goa-SEIAA)
meeting held on 19th June 2020 (Friday) at 11am in GCZMA office , Pundalik Nagar,
Porvorim, Goa.

The fifty fifth meeting of the Goa-SEIAA (*hereinafter referred as 'Authority'*) was held on 19th June 2020 at 11.00 am in the chamber of Member Secretary, Porvorim, Goa. The list of members present during the meeting is at *Annexure – 1*.

At the outset, Member Secretary welcomed the Authority members; Member Secretary briefed about the agenda items (*refer Annexure – 2*) to be taken up for discussion / deliberations and suitable decisions. Accordingly, the same were considered as detailed below

1. To decide on recommendation given by Goa-SEAC for construction of **New High Court Complex at Penha de Franca, Porvorim, Goa** proposed by **Goa State Infrastructure Development Corporations (GSIDC)**. The applicant submitted application along with Form I & XIV, EIA report and other relevant documents. The consultant M/s LKS India Pvt. Ltd presented the brief project proposal on behalf of PP before the Committee during its 120th meeting held on 9th may 2020 and informed that the project design won the Griha award for green building. The project also has provision for rain water harvesting, 100kv solar panels, 50 KLD sewage treatment plant. The Goa-SEAC conducted the site inspection of the proposed site on 09th May 2020. The Committee during 122nd meeting held on 26th May 2020 perused the compliances and after detailed discussion and deliberation decided to recommend the project to Goa-SEIAA for grant of Environmental Clearance (EC) under the provision of EIA Notification 2006, as amended. Brief details submitted by project proponent is as below:

Sr. No.	Description	Details
1	Name of the project Proponent	Goa state Infrastructure Development Corporation Limited
2	Address for Communication	EDC Complex, 7th Floor, Dr AtmaramBorkar Rd, Panaji, Goa 403001
	Name & location of the project	Construction of High Court Complex at Penha de Franca, Porvorim Goa.
4	Plot Area	29,878 sqm
5	Net plot Area	27,503sqm
6	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	16,695.88 sqm 5984.98 sqm 22,680.86 sqm ÉModule 1 - Basement, ÉModule 2, 3 & 4 - Ground + 2 (Part Basement), ÉModule 5- Ground + 1 Height 14m

7	No. of Court halls	7+1 GSLSA
8	Total water requirement (Construction/operation phase)	Construction phase 10 to 20 KLD Operation phase 45KLD
9	Sewage generation	312m ³ /Daily
10	STP Capacity / Proposed Technology	Combined Effluent and Sewage treatment plant- 50KLD capacity
11	Total Solid Waste Quantities	Construction phase- 1736 m ³ Operation phase- 959 m ³
13	Energy Efficiency	ÉSkylights designed to maximize natural lighting ÉGreen roof to reduce heat gain ÉCourtyard with waterbodies to reduce ambient temperature ÉUse of energy efficient materials like AAC blocks, IG, DGU glazing, etc.
14	Parking 4 W and 2W	4W = 313 2W = 70 Differentially Abled = 05 nos.
15	Power requirement	Construction phase- 7500kW Operation phase- 2486 kW (Photovoltaic system- 100kW connected to the grid)
16	D.G set Capacity	Power backup- DG of 250KVA X 1no.
17	RWH tank capacity	88.60 m ³
18	EMP cost (including DMP cost)	~Rs 22,39,000/-
19	No. of tress on site	290
20	No. of trees to be cut	269
21	No. of tress to be planted on site	154
22	CRZ status	NA

Decision: The Authority members perused the application along with necessary documents submitted by GSIDC and taking into consideration the recommendations made by Goa-SEAC in its 122nd meeting held on 30th May 2020, was of the opinion that the project proponent should have taken prior Environmental Clearance before commencement of the work. It is not the case of the project proponent that overall construction area was less than 20,000 sq mts but in the initial stage itself the same was having 20,459.85 sq mt of Built up Area. As of now it has been revised to 22,680.86 sq mts. The members also deliberated that in the past the GSIDC had also committed faults whilst constructing North Goa District Court building where no prior EC was obtained by them. This fact was also brought to the notice to the project proponent. But they still committed fault by carrying out construction of High Court building at Penha de France, Porvorim, Goa. Since the High Court Complex is for the State of Goa which would be centred to ease various litigations pending in our State that would resultantly lead to reducing the burden on the litigants, the Authority decided to grant Environmental Clearance (EC) for proposed construction of **New High Court**

Complex at Penha de Franca, Porvorim, Goa under the provision of EIA Notification 2006 (as amended) subject to payment of penalty of 2% from the total project cost of the project in favour of Goa-State Environmental Impact Assessment Authority (Goa-SEIAA).

Further Project Proponent has to comply with following specific conditions:

- i. Project Proponent (PP) should necessarily make provision for second vehicular gate to facilitate entry and exit and ensure safety of judges, advocates, officials, employees and clients in case of an emergency.
- ii. Project Proponent (PP) should necessarily make Installation of biogas to treat the biodegradable waste and re-use of biogas in canteen.
- iii. Recycling of treated sewage water for flushing and gardening.
- iv. Project Proponent (PP) should necessarily make provision of storage of non biodegradable waste.
- v. Plantation of local trees along the southern and eastern compound wall.
- vi. 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.
- vii. Sewage Treatment Plant (STP) contract should be for minimum period of 5 years with operation and maintenance contract after commissioning /completion of project.
- viii. PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body.
- ix. E-waste shall be disposed through Authorised vendor as per E-waste (*Management and Handling*) Rules, 2011.
- x. 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.
- xi. The Project Proponent shall utilise fly ash bricks in masonry works.
- xii. The PP shall use construction debris for land filling wherever applicable.
- xiii. 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.
- xiv. 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 minimizes 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.

- xv. 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.
- xvi. 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.
- xvii. 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.
- xviii. 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.
- xix. 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.
- xx. PP shall make provision for charging points for electronic vehicles in the parking area.

3. Project Proponent 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 1070 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.
 - l. Further, progress will be reviewed after six months (*minimum 3 times in a year*) depending upon progress of the work. Further, the compliance to these conditions as and when submitted by PP will be verified /ascertained by the authority to propose additional conditions if any.
2. Further, the Authority has decided that PP needs to comply to the following “**General Conditions**”:-
- a. The PP should use Ready-Mixed Concrete (RMC) to minimize air / water / land pollution and water usage during the construction phase.
 - b. **Solar power generation** - Every major consumer of conventional power will have to generate and opt for certain percentage of power generation from non-conventional sources. In this context, 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 as and when made applicable in future. In addition, south-facing walls to be utilized to install solar panels to harness optimum solar energy. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heater system. PP should install, after checking feasibility, solar-plus-hybrid non-conventional source as source of energy.
 - c. PP should adopt roof-top rainwater harvesting / conservation measures to optimally utilize the water availability by constructing sumps for collection of rainwater as per the site-specific location details provided.
 - d. PP should not disturb the natural drainage and as far as possible, maintain the original topography while designing for landscape development by planting local plant species and which are not alien to the prevailing environment.
 - e. PP should clarify any issue related to public objections, if any, and should not conceal the scientific facts in light of the proposed developmental activity vis-à-vis its landuse categorization / zoning.
 - f. PP should submit half-yearly compliance report(s) in hard as well as soft copy format to the Authority for the period upto project completion.
 - g. This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any, from time to time. Judgements / Orders issued by Honøble High Court, NGT, Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified by the competent authorities.
 - h. PP should ensure and ascertain that **-civil plansø** which were submitted to the Committee/ Authority during the process of project appraisal be submitted to other line Departments / agencies concerned while seeking NOC / Consents/

Permissions, as applicable. If any discrepancy is found in the plans submitted or details provided may be reported to this Authority. This environmental clearance is issued with respect to the environmental considerations and it does not mean that Goa-SEIAA approved the proposed land.

- i. E-waste if any shall be disposed through Authorised vendor as per E-waste (*Management & Transboundary Movement*) Rules, 2016.
 - j. This environmental clearance is issued subject to obtaining NOC from the Forestry & Wildlife angle including clearance from the Standing Committee of the National Board for wildlife, if applicable. The grant of environmental clearance does not necessarily imply that Forestry & Wildlife clearance has been granted to the project, which has to be dealt separately by the competent authorities in accordance with law.
 - k. The height, construction gross built up area of proposed construction is **22,680 Sq.mts** shall be in accordance with the existing FSI/ FAR norms of the local body and planning authorities and it should ensure the same along with survey number before approving layout plan and before according commencement certificate to proposed work, Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.
 - l. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
3. Further, the PP is required to comply with the following **“General Conditions” during construction phase:-**
- a. -Consent to Establishø shall be obtained from the Goa State Pollution Control Board (GSPCB) under Air Act and Water Act, as applicable and a copy shall be submitted to the Authority within 30 days of starting construction work at site.
 - b. Permission to draw groundwater, as applicable, shall be obtained from the Groundwater Cell of the Water Resources Department (WRD) Government of Goa.
 - c. Project proponent shall not make any change in the Surface Layout Plan / Civil Plan submitted to the Authority without its prior permission. **In case of any change(s) in the scope of the project and/or otherwise, the project proponent needs to inform this Authority.**
 - d. Project proponent shall make suitable provisions for sewage / wastewater disposal and storm water release independently.
 - e. The diesel generator sets (D.G. set) to be used during construction / after commissioning should be low-sulphur diesel type and should conform to Environment (*Protection*) Rules prescribed for air and noise emission standards as laid down by the Goa State Pollution Control Board (GSPCB).

- f. The installation of the Sewage Treatment Plant (STP) if any should be certified by the GSPCB and a report in this regard should be submitted to the Authority before the STP is commissioned.
- g. Provision 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, crèche and first aid room etc.
- h. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of waste water and solid waste generated during the construction phase should be ensured.
- i. The solid waste generated should be properly segregated. Dry /inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- j. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved site with the approval of competent authority.
- k. Arrangements shall be made that waste water and storm water do not get mixed.
- l. All the top soil excavated during construction activities should be stored if or used in horticulture/landscape development within the project site.
- m. Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.
- n. Green-belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the State Forest / Agriculture Department.
- o. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- p. Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they should not leach into ground water.
- q. Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary authorisation of the GSPCB.
- r. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concerned authority shall be taken.
- s. 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 standard and should be operated during non-peak hrs.

- t. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level construction phase, so as to conform to the stipulated standard by CPCB/ GSPCB.
- u. The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquakes, adequacy of fire fighting equipments etc. as per National Building Code (NBC) including measures from lighting.
- v. Storm water controlled and its re-use as per Central Ground Water Board (CGWB) and Bureau of Indian Standards (BIS) for various applications.
- w. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- x. The groundwater level and its quality should be monitored regularly in consultation with ground water authority of the Water Resources Department (WRD), Government of Goa.
- y. The installation of the sewage treatment plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the GSPCB before the project is commissioned for operation. Treated effluent released from STP shall be recycled / reused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharged in the sewer line. Treatment of 100% grey water through centralised treatment should be done. Necessary measures should be adopted to mitigate the odour problem from STP.
- z. Use of glass may be reduced upto 40% to reduce electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.
- aa. Roof should meet prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material.
- bb. Energy conservation measures like installation of LEDs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use of CFLs / TFLs, if any, should be properly collected and disposed off / sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination.
- cc. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment Protection Act 1986. The height of stack of DG sets should be equal to the height needed for the combine capacity of all proposed DG sets.
- dd. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

- ee. Traffic congestions near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalised and no public place should be utilised.
 - ff. Opaque wall should meet prescriptive requirement as per energy conservation board which is proposed to mandatorily for all air conditioned spaces while it is aspiration for non- air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.
 - gg. The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
 - hh. Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
 - ii. Under the provisions of Environment Protection Act 1986, legal action shall be initiated against the PP if it was found that construction of the project has been started without obtaining EC.
 - jj. Six monthly compliance reports should be submitted to the MOEF with copy to the Goa-SEIAA and GSPCB.
4. Further, the Authority decided to direct the PP to comply with the following **“General Conditions” during post-construction phase:-**
- a. PP shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. The PP to explore possibility of utilising excess treated water in the adjacent area for gardening before discharging into sewer line. No physical occupation of allotment will be given unless all above said environmental infra structure is installed and made functional including water requirement prior certification from appropriate authority shall be obtained.
 - b. Wet garbage should be treated by organic waste convertor and treated waste (manure) should be utilised in the existing premises for gardening. No wet garbage will be disposed outside the premises. Local authority should ensure compliance to this.
 - c. A complete set of all the documents submitted to Goa-SEIAA should be forwarded to local authority, GSPCB and Planning authority.
 - d. In case of any change(s) in the scope of the project, the project would require a fresh appraisal by the Goa-SEIAA.
 - e. Separate funds shall be allocated for implementation of environmental protection measures /EMP along with item wise break-up. The funds earmarked for the environment protection measures shall not be diverted for other purposes.
 - f. A copy of the environmental clearance letter shall be sent by PP to the concerned Village Panchayat and planning authority as applicable, from which suggestions / representation, if any, were received while processing the proposal. The EC letter shall also be put on the company's website by

PP within one week time period from the date of issue of environmental clearance.

- g. The PP shall upload the status of the compliance of the stipulated EC conditions, including results of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF & CC, the respective Zonal office, CPCB and the GSPCB. The pollutant levels in respect of SPM, RSPM, SO₂ and NO_x (*ambient levels as well as D.G. stack emissions*) shall be monitored.
- h. The environmental statement for each financial year ending 31st March in Form-V is to be submitted to the GSPCB as prescribed under the Environment (*Protection*) Rules 1986 (as amended) and subsequently shall also be put on the company's website along with the status of the compliance of the EC conditions and shall also be sent to the respective Regional Office of the MoEF & CC.
- i. Consent to Operate shall be obtained from GSPCB before operation, failing which the Environmental Clearance herein shall be deemed to be withdrawn.
- j. Sewage Treatment Plant (STP) shall be installed at site. The STP should be certified by an independent expert and adequacy report in this regard should be submitted to GSPCB before the project is commissioned for operation. Necessary measures should be made to mitigate the odour problem from STP. There shall also be a comprehensive AMC of 5 years from the commissioning of the STP by the agency installing the STP.
- k. The solid waste (dry as well as wet garbage) generated should be properly collected and segregated. Organic Waste Converter shall be installed by RWA for the treatment of biodegradable (wet) garbage generated within the complex. Non-Biodegradable waste should be outsourced properly after recovery of recyclable material. Adequate measures should be taken to prevent odour problem.
- l. Utilization of Diesel power generating sets is subject to power failure condition only. The DG sets proposed as a source of power back up during operation phase should be of enclosed type, low sulphur diesel run and conform to rules made under the Environment (Protection) Act, 1986. The DG sets should be subjected to periodic noise and stack monitoring in consultation with GSPCB. Waste/used diesel should be stored and managed as per the Hazardous and other Wastes (*Management & Transboundary Movement*) Rules, 2016 as amended.
- m. Noise should be controlled to ensure that it does not exceed the prescribed standards both during day & night time.
- n. The ground water drawal from existing/proposed bore wells if any should be done only with the prior permission of Ground Water Board. The ground water level and its quality should also be monitored regularly both during construction and operation phase in consultation with Ground Water Board.

- o. Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- p. Energy Conservation measures such as solar lighting for common area, solar water heating system, CFLs/TFLs for lighting of areas, LED lights for signage, solar inverters on the etc should be adopted.
- q. Used CFLs/TFLs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- r. A Report on energy conservation measures conforming to energy conservation norms finalized by Bureau of energy Efficiency should be prepared incorporating details about building materials and technology, R & U factors etc and submit to the State Expert Appraisal Committee and a copy to GSPCB in three months time.

2. To decide on recommendation given by Goa-SEAC for proposed residential development "Thousand Palms" at survey no. 143/1A-1a, Sancoale village, Marmugao, Goa by M/s Ashoka Infraways Ltd. The Committee during 121st meeting held on 26th May 2020 perused the compliances and after detailed discussion and deliberation decided to recommend the project to Goa-SEIAA for grant of Environmental Clearance (EC) under the provision of EIA Notification 2006, as amended. Brief project details submitted by Project proponent are as below:

Project Proponent	ASHOKA INFRAWAYS LIMITED
Name of the project	Thousand Palms Survey No 143/1 A-1A SancoaleMarmugoa Goa
Net Plot Area	Total Plot Area:15000 sqm BUA: 22398.39 sqm
Proposed Built-up Area (FSI & Non-FSI)	(FSI + NON FSI) 14987.17+7411.22 22398.39 sqm
Ground coverage	Ground coverage : 40% Permissible : 6000 sq mt Area covered : 4009.12sqmt
No. of buildings	10 buildings
Height of the building (s)	15 meter
Total Water Requirement	Operation Phase: Fresh Water requirement: 162 cmd Fresh water : 96 cmd Treated water from STP : 107 cmd Total sewage generated : 119 cm
Sewage Generation	Total sewage Generated: 119 KLD (STP Capacity 120KLD) MBBR technology
Solid wastes	Operation Phase : Total solid waste : 471 kg/day

Energy	Source: GEB Construction Phase : 20 HP Operation Phase : Connected load : 3032 KW and demand load : 1558 KW DG Power Back-up: 1 Nos. of DG set capacity:200 KVA each 3 transformer of 500 KVA
RG	2250 sqm
Quantity of soil excavated	2870 sqmtrs
Tree details	Trees on site : 42 nos Trees to be cut : 21nos Trees to be retained : 21 Nos New trees to be planted : 343 Nos

Decision: The Authority noted that that the term of the Authority is expiring on 27th June 2020 and hence the members decided to defer the proposal to next Authority because they would not be in position to inspect the site and give valuable suggestions.

3. To decide on recommendation given by Goa-SEAC for minor mineral quarry (**new laterite stone quarry**) in survey no. 39/0 village Cola, Canacona, Goa by **Mr. Domnic Fernandes**. The committee during its 121st meeting held on 26th May 2020 after perusing the said compliances noted that the project proponent has submitted the revised tree plantation plan and a letter from the owner of land stating post closure the quarry boundary. Accordingly Committee after detailed discussion decided to recommend the project to Goa-SEIAA for grant of Environmental Clearance (EC) under the provision of EIA Notification 2006. Brief details submitted by Project proponent are as below:

Serial Number	Item	Details
1.	Name of the Project/s	NAGURMA LATERITE QUARRY
2.	Name of the applicant	DOMNIC FERNANDES
3.	Name of quarry	NAGURMA LATERITE QUARRY
4.	Type of quarry	LATERITE STONE
5.	New/Expansion/Modernization/renewal	NEW
6.	Existing Capacity/lease Area etc.	10000m3/Year, 1.8500Ha Area
7.	Category of Project i.e. 'A' or 'B'	B2
8.	Plot/Survey/Khasra No.	39/0
9.	Village	COLA
10.	District	South Goa
11.	State	Goa
12.	Area excavated	0.2664Ha
13.	Balance area available	1.5836Ha
14.	Proposed expansion capacity	New Project
15.	Raw material overburden ratio	1:0.3
16.	Location of Stack overburden	With in lease area backfilling
17. a	Proposed plantation plan	Backfilled and fringe area
18.	Tree plantation proposed species and number	As per enclosed list
19.	Approached road	Existing
20.	Proposed/Existing road Paved/unpaved with length of road	Existing unpaved of 1.5Km
21.	Whether site has existing water	No

	body	
22.	Number of trucks plying per day	6-7 trips in a day
23.	Details on storage of explosives used for blasting	No blasting will be carried out
24.	Google image with 1km radius and 5 km radius.	Enclosed
25.	Details/Drawing of proposed quarry plan	Surface Plan Enclosed

Decision: The Authority after detailed perusal of the documents submitted by the project proponent and taking into consideration the recommendations by Goa-SEAC decided to grant environmental clearance (EC) for proposed new minor mineral (Laterite Stone) quarry under the provisions of EIA Notification 2006 (as amended) with following conditions:

1. 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.
2. 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. Transportation of quarried material shall be done by covering the trucks with tarpaulin so that no spillage of material / dust takes place on route.
3. 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. In addition, safety gadgets and health-care facilities should be provided to workers vis-a-vis maintaining hygiene surrounding the proposed lease boundary.
4. The lease holder shall undertake adequate safeguard measures during extraction of laterite stone and ensure that due to this activity, the hydro-geological regime of the surrounding area shall not be affected / altered / polluted. Quarrying operations should be limited to **day-hours time** (06 a.m. to 06 p.m. only) with specified time reserved for ~~blasting~~ Regular monitoring of groundwater levels and its physico-chemical quality parameters shall be carried out around the quarry lease area (for 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 similar parameters on quarterly basis and/or seasonally (*i.e. pre-monsoon / monsoon and post-monsoon*).
5. No quarrying be carried out within the safety zone of any bridge and/or embankment as well as within the vicinity of natural / man-made archaeological site(s).
6. 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.
7. Green belt development shall be carried out considering CPCB guidelines including selection of plant species in consultation with Forest Department / Zonal Agricultural Office, as submitted along with application.

8. The lease holder shall obtain necessary prior permission (NOC) from the Groundwater Cell of the Water Resources Department (WRD) for drawl of surface / groundwater from within the lease area.
 9. Waste water / effluents, if any, shall be properly collected, treated and monitored so as to conform to the standards prescribed by the MoEF / CPCB.
4. Compliances received from **Kaloshi Granites** for minor mineral quarry (**new Basalt stone quarry**) in survey no. 12/1 village Damocem, Sattari, Goa and was taken up for discussion. The said quarry is proposed to the existing quarry bearing survey no. 12/1 Damochem, Sattari, Goa. The committee after perusing the compliances submitted by project proponent decided to recommend the project to Goa-SEIAA for grant of Environmental Clearance (EC) under the provision of EIA Notification 2006. Brief details submitted by Project proponent are as below:

Decision: The Authority after going through the application and documents decided to seek comments from Department of Forests and Water Resources Department (WRD) considering the fact that the nearest water body is 1.2 km away from proposed site i.e. river Mhadai.

Serial Number	Item	Details
1.	Name of the Project/s	KALOSHI GRANITES
2.	Name of the applicant	BYRON A XAVIER
3.	Name of quarry	DAMOCEM BASALT QUARRY
4.	Type of quarry	BASALT
5.	New/Expansion/Modernization/renewal	NEW
6.	Existing Capacity/lease Area etc.	18000m³/YEAR, 1.2914Ha Area
7.	Category of Project i.e. 'A' or 'B'	B2
8.	Plot/Survey/Khasra No.	12/1
9.	Village	DAMOCEM
10.	District	NORTH GOA
11.	State	GOA
12.	Area excavated	0.1174Ha
13.	Balance area available	1.1740Ha
14.	Proposed expansion capacity	New Proposal
15.	Raw material overburden ratio	1:0.5
16.	Location of Stack overburden	South western Portion of the lease
17.	Existing flora and fauna at site with details of species and nos of trees	As per enclosed list.
18.	Proposed plantation plan	And Dump Fringe Area
19.	Tree plantation proposed species and number	600 trees of cashew and other fruit bearing trees
20.	Approached road	Existing
21.	Proposed/Existing road Paved/unpaved with length of road	Existing unpaved of 500m
22.	Distance from nearest Locality	1.3Km
23.	Distance from nearest metallic road	500m
24.	Distance from nearest water body	1.2Km Mhadai River
25.	Whether site has existing water body	No
26.	Number of trucks plying per day	5 to 6 trips in a day
27.	Details on storage of explosives used for blasting	Holds a explosive Magazine licence for storage of 50kg explosive
28.	Google image with 1km radius and 5 km radius.	Enclosed
29.	Details/Drawing of proposed quarry plan	Surface Plan Enclosed

5. To discuss on the communication received from **M/s Shalini Metals** dated 22/05/2020 regarding EC issued dated 29/04/2020 for proposed basalt stone quarry in survey no. 25/2(P), 28(P), 29(P), 30(P), 31(P) of Allorna, Pernem, Goa requesting to grant 300 cum per day and to waive the clause of publication of advertisement informing as regards to EC.

Decision: Based on the request made by **M/s Shalini Metals** for revision in extraction of basalt from 50 cum /day to roughly 300 cum /day, the Authority called the project proponent to justify the need to extract such high volume of the minor mineral (basalt stone). The project proponent informed that he also manufactures sand from this crushed stone (alternative to sand). As of now extraction of sand which was done from various river basins has been stopped on account of Orders passed by Honøble High Court of Bombay at Goa because there is no proper study on excretions of sand and to what extent such extraction can be done in designated areas. Construction activity in the State of Goa has also suffered due to the ban. Hence the members decided to allow expansion of the capacity to extract basalt stone from 50 cum per day to 200 cum/day. In so far as the request to waive the advertisement is concerned, the same has been rejected.

6. To decide on application from **M/s Priyadarshani Hi-tech Associates** for extension of EC with respect quarrying lease bearing lease no. 05/basalt /2007 situated in survey no. 119(P) of village Vantem, Sattari, Goa.

Decision: The Authority after detailed discussion and taking into consideration the Notification dated 12/04/2015 and 29/04/2015 from Ministry of Environment & Forests and Climate Change (MOEF & CC) bearing S.O.1141 (E) para (ii) (a) decided to extend the validity of the Environmental Clearance (EC) bearing no. 3-181-2010/STE-DIR/105 dated 08th May 2015 for another 2 years. i.e till **08/05/2022**.

7. To decide on application by **M/s Dessai Metal Works** for extension of EC with respect quarrying lease bearing lease no. 08/basalt /91 situated in survey no. 11/1(P) of village Pilliem, Dharbandora, Goa.

Decision: The Authority after detailed discussion and taking into consideration the Notification dated 12/04/2015 and 29/04/2015 from Ministry of Environment & Forests and Climate Change (MOEF & CC) bearing S.O.1141 (E) para (ii) (a) decided to extend the validity of the Environmental Clearance (EC) bearing no. 3-181-2010/STE-DIR/105 dated 08th May 2015 for another 2 years. i.e till **08/05/2022**.

8. To decide on application by **Shri. Mohan Sheldekar** for extension of EC with respect quarrying lease bearing lease no. 16/basalt /88 situated in survey no. 309/4 of village Xeldem, , Salcete, Goa.

Decision: The Authority after detailed discussion and taking into consideration the Notification dated 12/04/2015 and 29/04/2015 from Ministry of Environment & Forests and Climate Change (MOEF & CC) bearing S.O.1141 (E) para (ii) (a) decided to extend the validity of the Environmental Clearance (EC) bearing no. 3-181-2010/STE-DIR/105 dated 08th May 2015 for another 2 years. i.e till **08/05/2022**.

9. To decide on application by **Shri. Pramod M. Kamat** for extension of EC with respect quarrying lease bearing lease no. 1/Basalt/11 situated in survey no. in property bearing survey no. 36/0 of Allorna, Village, Pernem taluka, Goa.

Decision: The Authority after detailed discussion and taking into consideration the Notification dated 12/04/2015 and 29/04/2015 from Ministry of Environment & Forests and Climate Change (MOEF & CC) bearing S.O.1141 (E) para (ii) (a) decided to extend the validity of the Environmental Clearance (EC) bearing no. 3-181-2010/STE-DIR/105 dated 08th May 2015 for another 2 years. i.e till **08/05/2022**.

10. To decide on application by **Shri. Prashant M. Kamat** for extension of EC with respect quarrying lease bearing lease no. 2/Basalt/06 in property bearing survey no. 37/0 of Allorna Village, Pernem taluka, Goa.

Decision: The Authority after detailed discussion and taking into consideration the Notification dated 12/04/2015 and 29/04/2015 from Ministry of Environment & Forests and Climate Change (MOEF & CC) bearing S.O.1141 (E) para (ii) (a) decided to extend the validity of the Environmental Clearance (EC) bearing no. 3-181-2010/STE-DIR/105 dated 08th May 2015 for another 2 years. i.e till **08/05/2022**.

11. To decide on application by **Shri. Prashant M. Kamat** for extension of EC with respect quarrying lease bearing lease no. 3/Basalt/03 in property bearing survey no. 32/2 & 32/3 of Allorna, Village, Pernem taluka, Goa.

Decision: The Authority after detailed discussion and taking into consideration the Notification dated 12/04/2015 and 29/04/2015 from Ministry of Environment & Forests and Climate Change (MOEF & CC) bearing S.O.1141 (E) para (ii) (a) decided to extend the validity of the Environmental Clearance (EC) bearing no. 3-181-2010/STE-DIR/105 dated 08th May 2015 for another 2 years. i.e till **08/05/2022**.

12. To decide on communication received from **Goa Waste Management Corporation** dated 08/06/2020 regarding revised layout plan and process flow diagram for the Solid Waste Management Facility at Cacora , South Goa.

Decision: The Authority decided to seek comments from Goa-SEAC for the said revision.

13. To decide on a complaint by Ar. Royla Fernandes, Benaullim Goa to intervene western bypass and put on holds the tendering procedure from stretch of Benaullim and Seraullim.

Decision: The Authority noted that this Authority has not granted the Environmental Clearance to the said project. Complainant may approach Concerned Authority in the said mater.

Meeting concluded with thanks to the chair.

Sd/-
Adv. Joseph Vaz
Member, Goa-SEIAA

Sd/-
Johnson Fernandes
Member Secretary, Goa-SEIAA

Sd/-
Mr. Vivekanand L. Sawkar
Chairman, Goa-SEIAA

Place: GCZMA office, Porvorim.

Date: June 2020.