Agenda Items for the 56th Goa-State Environment Impact Assessment Authority (Goa-SEIAA) meeting held on 06th January 2021 (Wednesday) at 11.00 am in conference hall, 4th floor, Dempo Tower, Patto-Panaji, Goa.

1. To decide on recommendation given by Goa-SEAC for proposed residential development õ**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 Tree details	2870 sqmtrs Trees on site: 42 nos Trees to be cut: 21nos Trees to be retained: 21 Nos New trees to be planted: 343 Nos

The Authority during its 55th meeting 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.

In view of the same the said matter is placed for discussion and decision.

2. To decide on transfer of Environmental Clearance issued to GWMC for set up of Common Bio medical waste treatment facility at Kundaim to M/s Biotic waste Solutions Pvt Ltd.

Background: This office earlier was in receipt of application along with the EIA report dated 28/12/2018, refereed above, submitted to Goa-SEAC, Seeking prior Environmental Clearance under the Environment Impact Assessment Notification, 2006. The Environmental Clearance was granted vide letter dated 27/09/2019 to M/s Goa Waste Management Corporation (GWMC), for setting up of Common Bio-medical Waste Treatment Facility (CBMWTF), at Plot No BW-1 in Kundaim Industrial Estate, Kundaim, Ponda, Goa

The Concessionaire of the Goa Waste Management Corporation 6 M/s Biotic Waste Solutions Pvt. Ltd., approached this Authority (*i.e. Goa- SEIAA*), seeking prior amendment and transfer of Environmental Clearance (EC) for establishment of a Common Bio-medical Waste Treatment Facility (CBMWTF), at Plot No. BW-1, in Kundaim Industrial Estate, Kundaim, Goa and submitted letter dated 13/08/2020 alongwith additional information. The Concessionaire M/s Biotic Waste Solutions Pvt. Ltd. made a presentation before the SEAC, The Following Amendments were requested by the Concessionaire of the Goa Waste Management Corporation 6 M/s Biotic Waste Solutions Pvt. Ltd.

	Points from		
	Existing		
	EC	Existing EC	Amended EC
	E ' 4		One 9120 Liter/heately (Wellers) and
	Equipment Sr. No. 2:		One 8130 Liter/batch (Volume) and
	Autoclave	240 Liter (Volume)	One 2000 Liter/ batch (Volume) as standby
	Autociave	240 Liter (Volume)	standby
	Equipment		
	Sr. No. 3:		
	Shredder	50kg/hour	250kg/hr
			Plastic Waste Recycling/
New	Equipment		Management/ Reprocessing system.
Point	Sr. No. 4:	blank	Installed one Line of 400 kg/hr
		Ambient noise Levels shall	Ambient noise levels shall conform
		conform to residnetal standard	to industrial standards both during
	Point 16	both during day and night.	day and night.

1		Entire quantity of treated	Entine quantity of tweeted
		Entire quantity of treated wastewater shall be resuled for	Entire quantity of treated wastewater shall be reused for
		individual purpose within the	individual purpose within the
		premises after conforming the	premises after conforming the
		GSPCB norms incluidng 600m x	(GSPCB) norms including 600mm
		600 x garden bed along the	wide green belt along periphery of
	Point 45	periphery of the plot.	the plot.
		Regular Monitoring of ground	
		level concentration of PM10,	
		PM2.5, Nox and CO shall be carreid out at the site and	
		downwind direction and its	
		records shall be maintained.	
		Ambient air quality levels shall	
		not exceed the standards	
		stipulated by the CPCB. If at any	
		stage these levels are found to	
		exceed teh prescribed limits, necessary additional/control	
		measures shall be taken	
	Point 54	immediately	To be Maintained
		Proponent shall stricly follow the	
		Environmental Monitoring	
		Program (EMP) for Ambient Air	
		Quality Monitoring (AAQM). An	
	Point 56	online Ambient Air Quality monitoring station to be installed.	To be Maintained
	1 Omit 30		
			D' 1/IIOD 4 41 4 COI 4/1
		Diesel/HSD to the tune 60Lit./hr	Diesel/HSD to the tune 60Lit./hr
	Point 58	shall be used in the stand-by DG	shall be used in the stand-by DG set
	Point 58		shall be used in the stand-by DG set (Cap.250 KVA).
	Point 58	shall be used in the stand-by DG	shall be used in the stand-by DG set
		shall be used in the stand-by DG set (Cap.20 KVA). Treated Bio-medical plastic waste shall be sold out to GSPCB	shall be used in the stand-by DG set (Cap.250 KVA). Treated Bio-medical plastic waste shall be sold out to any SPCB/SPCC Authorized Recyclers
	Point 58 Point 64	shall be used in the stand-by DG set (Cap.20 KVA). Treated Bio-medical plastic waste	shall be used in the stand-by DG set (Cap.250 KVA). Treated Bio-medical plastic waste shall be sold out to any
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The Goa-SEAC after due consideration of the documents submitted by the project proponent and additional clarification furnished in response to its observation have recommended the grant of

amendment in earlier EC dated 27/09/2019 for the above-mentioned project with the condition that the project proponent shall comply with the terms and conditions specified in this amended Environmental Clearance. The Goa-SEAC recommended the said proposal to the (Goa-SEIAA) Authority for Amendment and Transfer of grant of Environmental Clearance under the EIA Notification, 2006, (as amended).

In view of the same the said matter is placed for discussion and decision.

- 3. To decide on recommendation given by Goa-SEAC on following project proposals:
- **1. Ivor Braganza for** proposed basalt quarry having lease area 1.8 ha. The proposed extraction capacity 15000 cum per annum.
- **2. Mr. Prashant Kamat** minor mineral quarry (**new_basalt stone quarry**) in survey no. 36/1 and 37/0 villages Allorna, Pernem, Goa.
- **3. Smt. Meeravati Velip** minor mineral quarry (**new_basalt stone quarry**) in survey no. 30/1 village Gokuldem, Quepem, Goa.
- **4. Mr. Kamlesh Mote** minor mineral quarry (**new_laterite stone quarry**) in survey no. 125/0 village Torxem, Pernem, Goa.
- 4. Application was received from M/s Nathurmal Eco Minerals Pvt Ltd, for environmental clearance to proposed mining of Minor Minerals Dolomite and Calcium Bentonite at Survey No. 75/2 and Survey No 79 at Arvalem, Sanquelim, North Goa.

The Project proponent made a presentation through Video conference.

Project Proponent stated that it is a registered MSME unit, made detailed presentation which is summarised as below:

- 1. The present application is for extraction of Minor Minerals Dolomite and Calcium Bentonite at Survey No. 75/2 and Survey No 79 at Arvalem, Sanquelim, North Goa.
- The method of extraction proposed is by open cast mining using excavator and tipper method. The area forms a part of the earlier lease granted for extraction of iron ore bearing TC Number 39 / 53 of which part area of 18-19Ha is proposed for extraction of Minor Minerals.
- 3. This area comprised a part of T/c 39/53 for Iron & Manganese Ores and had received Environmental Clearance under EIA 2006 from MOEF after due Public Hearing and ref E. C. No. J- 11015/63/2006-IA- II(M) on 16/4/2007 for an annual quantity of 73,500 tons per year and upon receiving extension of the lease also received environmental clearance under State Env Assessment Authority vide letter No. SEIAA 3 -181 2010 / STE DIR / 193.
- 4. This application to the SEAC is for the same quantity, working depth and mining method as the previous operator of TC No. 39/53.

- 5. Open Cast Mining will be done without resorting to Blasting as also will not puncture the water table.
- 6. In the event of any Iron Ore (Of above 45% Iron content) is encountered, same shall be extracted, stacked separately and declared to the Department of Mines & Geology, Govt of Goa and will be disposed of as per their instructions.
- 7. The normal Ore to Overburden Ratio in Goan mines operations is 1-part ore to 4-parts of overburden, but this shall be reduced since this ratio since we have identified these commercially exploitable minerals in the traditional overburden. The overburden is proposed to be stacked in survey number 75 /2 or 79 with an area of 20,000 sq mts for stacking of overburden and will be clearly marked out in detail in the quarrying plan. The overburden can be utilized for backfilling of the quarry.
- 8. Plantation of local variety of trees will be carried out on overburden dump.
- 9. The proposal does not envisage any felling of tree as the extraction is proposed within the broken-up area of earlier iron ore mining lease
- 10. Annual production of 73,500 metric tonnes of mineral works out to 300 metric tonnes per day based on 250 working days per year.
- 11. On an average there will be 30 number of truck trips on daily basis and same will be covered with tarpaulin and wheel wash system and DMG registered trucks will be deployed.
- 12. Rain water harvesting will be practiced and the old mining pit used to harvest the rain water will also registered with the Water Resources Dept., Govt of Goa. Dust pollution will be mitigated by sprinkling water through tankers, for which water is available in the mining pit. This harvested water will be used for dust suppression by use of misting apparatus to prevent fugitive dust emissions, at the truck loading point, as also for spraying on the stockpile and on the haul roads. With appropriate mitigation being practiced, Project Proponent does not foresee any adverse impact on surrounding area. There will be no generation of waste water or hazardous waste from the operation of the quarry
- 13. Positive impact will be that it will provide employment at all levels technical/ non-technical / accountant/ Engineers / etc. in the local area. All employment will be preferentially given to locals and also support via CSR to the local Panchayat, Govt Primary School, Sports Club, etc. as also appropriate Skill Development Activities to local youth via the tie up with ITI's and the Goa Group Vocational Training Centre.

- 14. Adequate Environmental Monitoring by authorized 3rd party monitoring organization to ensure strict compliance on Air quality, Water quality and Noise levels.
- 15. Quarrying plan will be submitted to DMG and copy to SEIAA/SEAC after approval of same by DMG.
- 16. Project Proponent does not envisage going below 25 mts below ground level over the next 10 years of operation.
- 17. After extraction it will be necessary to crush and screen the extraction to usable sizes. No beneficiation of extracted material will be undertaken.

The Committee after hearing detailed presentation and after detailed deliberation and discussion decided to recommend the proposed mining of Minor Minerals - Dolomite and Calcium Bentonite at Survey No. 75/2 and Survey No 79 at Arvalem, Sanquelim, North Goa_for Environmental Clearance to Goa-SEIAA with following conditions:.

- Goa Mineral Concession (Amendment) Rules, 2012ø notified by the Directorate of Mines and Geology (DMG) and published in Official Gazette Series-I, No. 24 dated 17th September 2012.
- 2. Submission of **approved mining plan**ø by the competent officer as per Sub-rule (7) as well as specific compliance to Sub-rules 7(A) to 7(D) of the above-referred Rules, as applicable.
- **3.** Office Memorandum (O. M.) issued by the Ministry of Environment, Forest and Climate Change (MoEF & CC) dated 20th December 2013 regarding :High Level Working Group Report on Western Ghatsø vis-a-vis compliance to the conditions mentioned therein w.r.t. activities prohibited in the identified Ecologically Sensitive Areas (ESAsø).
- **4.** Notification S. O. 733 (E) dated 10th March 2014 issued by the erstwhile Ministry of Environment and Forests (MoEF) and published in the Gazette of India ó Extraordinary, No. 624, Part-II, Section 3, Sub-section (ii) dated 10th March 2014 **specifying the list of villages categorized as Ecologically Sensitive Areas (ESAs') in the State of Goa** (i.e. 1,461 sq.kms.) *vis-a-vis* list of projects and activities prohibited / regulated therein.
- 5. Various notifications dated 25th January 2015 / 17th February 2015 / 24th February 2015 / 25th February 2015 issued by the Ministry of Environment, Forests and Climate Change (MoEF&CC) specifying the extent of Eco-Sensitive Zone ESZ (i.e. buffer zone) surrounding Wildlife Sanctuaries and National Park(s) within the State of Goa as well as details of projects and activities prohibited / regulated therein.
- **6.** Further, the project proponent is required to comply with the following **'General conditions'**:-
 - 1. No change in mining technology and scope of working shall be made without prior approval of the ministry of environment and forests.
 - 2. No change in the calendar plan including excavation quantum of mineral iron ore and waste shall be made.

- 3. Conservation measures for protection of flora and fauna in the core and buffer zone shall be drawn up in consultation with the local forest and wildlife Department.
- 4. Ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO2, NOX monitoring, location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the Goa State Pollution Control Board.
- 5. Data on ambient air quality (RPM, SPM, SO2, and NOX) should be regularly submitted to the Department of Mines and Geology and Goa State Pollution Control Board.
- 6. Fugitive dust emissions from all the sources shall be controlled regularly water spraying arrangement on haul roads, loading and unloading at transfer points shall be provided and properly maintained.
- 7. Measures shall be taken for control of noise levels below 85 dBA in the work environment workers engaged in operations of HEMM etc shall be provided with ear plugs/muffs.
- 8. Industrial waste water (Workshop and waste water from the mine) should be properly collected, treated so as to confirm to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time oil and grease trap shall be installed before discharge of workshop effluents.
- 9. Personal working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
- 10. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures if needed.
- 11. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a senior executive who will report directly to the head of the Organisation.
- 12. The project authorities shall inform to the regional office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- 13. The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Directorate of Mines & Geology and the Ministry of Environment and Forests (MOEF & CC) New Delhi.
- 14. The Directorate of Mines & Geology and the Ministry of Environment and Forests (MOEF & CC) having regional office at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full co operation to the officer of the regional office by furnishing the requisite data/ information/monitoring reports.
- 15. A copy of clearance letter will be marked to concerned Panchayat /local NGO, if any from whom suggestion /representation has been received while processing the proposal.

- 16. The Department of environment or any competent Authority may alter /modify the above conditions or stipulate any further condition in the interest of environment protection.
- 7. Further, the project proponent is required to comply with the following 'Specific 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 leases 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 mineral ore extraction are restricted within the prescribed lease boundary and further ensure that no natural water course (*seasonal or perennial*) gets obstructed / diverted / reclaimed due to mineral ore extraction operations.
- 2. Top soil from the proposed lease area shall be stacked separately and shall be utilized for plantation, as applicable. Overburden or other rejects shall be backfilled into the worked-out pit as far as possible with a view to restore the land to its original topography or desired alternate use.
- 3. Overburden shall be stacked at earmarked dump site only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m each stage shall preferably be of 10m and over all slope of the dump shall not exceed 28°. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self sustaining. Compliance status shall be submitted to the ministry of environment & Forests on six monthly basis.
- 4. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained property.
- 5. Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run off and siltation shall be based on the rain fall data.
- 6. Drilling and blasting shall not be undertaken.
- 7. Plantation shall be raised in area of 0.90 ha including a green belt of adequate width by planting the native species around the ML area, roads, OB dump sites etc in consultation with the local DFO/Agriculture department,. The density of the tress shall be around 2500 per Ha.
- 8. The project Authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director Central Ground Water Board.
- 9. Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year-pre monsoon (April ómay), monsoon (august) [post monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground water Authority and regional director central Ground water Board.

- 10. Vehicular emission shall be kept under central and regularly monitored measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with tarpaulin and shall not be overloaded.
- 11. Sewage treatment plant shall be installed for the colony TP shall also be provided for workshop and wastewater generated from mining operations.
- 12. A final closure plan along with details of Corpus fund shall be submitted to the Directorate of Mines & Geology, Goa for approval.
- 13. The lease holder should ensure construction of approach road / proper access to enable transportation of ore from site to desired destination and/or crushing unit, as applicable. Transportation of ore shall be done by covering the trucks with tarpaulin so that no spillage of material / dust takes place en route.
- 14. The lease holder should comply with the proposed plan of action for extraction of ores 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 maintain hygiene surrounding the proposed lease boundary.
- 15. The lease holder shall obtain the *Consentø and / or *Authorizationø as applicable, from the Goa State Pollution Control Board (GSPCB) as per the relevant provisions of the Air / Water Acts and Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 as amended.
- 16. No extraction is carried out within the safety zone of any bridge and/or embankment as well as within the vicinity of natural / man-made archaeological / heritage site(s).
- 17. The lease holder shall implement air pollution control measures / dust minimizing initiatives / noise control measures, wherever applicable, within the lease area as well as approach road and establish adequate buffer zone around the lease boundary to minimize dust pollution. It should be ensured that the Ambient Air Quality (AAQ) parameters as well as Noise be monitored at site and at the nearest human settlement (at least twice during pre-monsoon and post-monsoon periods separately) and comply with the norms prescribed by the Central Pollution Control Board (CPCB) and Noise Pollution (Control) Rules, 2000 respectively at all times.
- 18. Half-yearly compliance report on the conditions stipulated hereinabove shall be submitted to this Authority / DMG on 1st June and 1st December of each calendar year.
- 19. Green belt development shall be carried out as per CPCB guidelines including selection of local plant species and in consultation with Forest Department / Zonal Agricultural Office (ZAO), as applicable.
- 20. In case of any violation on above required terms n conditions will force the committee to stop the activities immediately.

In view of the same the said matter is placed for discussion and decision.

5. 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.

Background: The Committee examined the communication received from the 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. The Committee after examination of the revision in the layout plan for the proposed facility including the landfill noted that the proposed revision would not require any further modification in the environmental clearance or amendment to the same as this would not lead to any increase in the pollution load.

In view of the same the said matter is placed for discussion and decision.

5. Prescon Homes Pvt Ltd for proposed building and construction of senior citizen Housing, Azzossim, Tiswadi, Goa. The committee conducted site inspection on 11th January 2020. All issues related to environment including air, land, soil, ecology and biodiversity and social aspects were discussed. Consolidated statements, Form I and IA project specific presentation and plans submitted are taken on the record. Brief project details submitted by the project proponent is as follows:

Sr.No.	Description	Details
1.	Name & Location of the project	Proposed building
		construction of -Senior
		Citizen Housing Projectø
		Located at Sy.no.8-1/D of
		Azzosim Village,
		TiswadiTaluka, Goa
2.	Plot area	$30,570 \text{ m}^2$
3.	Net plot area	$25,743 \text{ m}^2$
4.	FSI area	FAR: 59.99%
	Non FSI area	Total built up area: 26,765.50
	Total construction area	m^2
	Building configuration & Height of the building	Building configuration: Stilt
		+ 4 floors & Ground + 4
		floors
		Height of building: Stilt +
		11.5 mtr
5.	No. of shops/flats	1 BHK ó 112
		2 BHK ó 128
		Club house ó 1
		Staff rooms ó 24 beds
6.	Total water requirement	Construction phase: 36.5
	Construction/Operation phase	KLD
		Operation phase: 222.42
		KLD
7.	Sewage generation	Construction phase: 5.5 KLD
		Operation phase: 169.06
		KLD
8.	STP capacity/ Grey water treatment plant capacity	STP: 170 KLD
9.	Total solid waste quantities	654 Kg/day
10.	RG area	Green Belt area: 5475.25 m ²
11.	No. of trees	169
12.	Energy efficiency	Solar water heaters, LED

		Lights, Solar lights
13.	Parking 4W and 2W	315 Cars
14.	Power requirement	1519.4 KW
15.	D.G set capacity	62.5 KVA X 1 no.
		250 KVA X 1 no.
16.	RWH tank capacity	
17.	EMP cost (including DMP cost)	Capacity cost: 300 lakhs
18.	No. of trees to be cut	52
19.	No. of trees to be planted on site	150
20.	CRZ status	Not applicable

The committee during 115th meeting held on 2nd March 2020 after hearing the detailed presentation by Project Proponent decided conduct re inspection of the proposed site. Accordingly the site inspection was done on 2nd May 2020. The committee noted that permission for tree cutting are obtained in advance and when the members visit the site, the existing flora and fauna cannot be assessed. The committee recommended that the Authority should write to the Forest Department and Town and Country Planning Department/ Planning and Development Authority that wherever a project requires environmental clearance no tree cutting permission be granted until inspection of the Goa-SEAC/ SEIAA. Further, the committee decided to recommend the project to Goa-SEIAA for environmental clearance under the provision of EIA Notification 2006 (as amended)

6. Any other matter with a permission of the chair.
