Minutes of the 13th meeting of Expert Appraisal Committee (Infra-2) for Projects related to All ship breaking yard including ship breaking unit, Airport, Common Hazardous Waste Treatment, Storage and Disposal Facilities, Ports and Harbours, Aerial Ropeways, CETPs, Common Municipal Solid Waste Management Facility, Building/Construction Project, Townships and Area Development projects held on 23-25 January, 2017.

Monday, 23rd January, 2017

13.1. Confirmation of Minutes of 12thEAC Meeting for Infra-2 held on 26-28 December, 2016.

Minutes of 12thEAC Meeting for Infra-2 held on 26-28 December, 2016 were confirmed

13.2. Consideration of Proposals

13.2.1.	**Deepening the Harbour Basin and Approach Channel to handle 14.5m draught vessels and Modification of Port Entrance at V.O. Chidambaranar Port Tuticorin, Tamilnadu by M/s V.O. Chidambaranar Port - TOR - [IA/TN/MIS/60857/2016][F.No.10-89/2016-IA-III]** The project authorities gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP report. All the projects related to Ports and Harbour and dredging are listed at 7(e) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level. M/s V.O. Chidambaranar Port has proposed for deepening the Harbour Basin and Approach Channel to handle 14.5 m draught vessels and Modification of Port Entrance at V.O. Chidambaranar Port Tuticorin, Tamilnadu. The project is located at Latitude: 8° 47' 30" N and Longitude: 78° 12' 15" E.The proposed site is located within the existing Harbour basin. Sufficient area within the existing harbour basin surrounded by breakwaters is available for these proposed developments.Presently, V.O.Chidambaranar Port is having capacity to handle vessels upto (-)12.80 m draught. The (-) 12.80 m draught is available in front of Coal Jetty I & II, Oil Jetty, Berth 8, Berth 9, North Cargo Berths (NCB) I & II. In view of improving the Port capacity, Port decided to increase the vessel draught from existing 12.80m to 14.50m to handle fully loaded Panamax vessels for inner harbour. The Port is also planning to modify (increase its width) the Port entrance to cater safe entry for the larger vessels. The proposed dredging covering the inner harbour basin and approach channel for a length of 10.80 km from Port Entrance to cater the fully loaded Panamax vessels having draught up to (-)14.5m. Total volume to be dredged is works out to 14.5 Million cu.m.(approx). The reclamation area for this dredging is proposed to be on the south of the existing south breakwater thus making an approach for providing road connectivity, rail connectivity and other utilities to the outer harbour in future. The approximate area to be reclaimed is 131 hectare.The proposed project site is one km away from the sea shore inside the existing harbour basin surrounded by breakwaters. Hence, no land area required for the proposed project.Cost of the project is Rs.3,178.00 Crores. It is reported that eco- sensitive area i.e. Gulf of Mannar Marine National park is located at a distance a distance of 8 km.There is a fishing harbour about 6 kms away from the project site. PP informed that MoEF&CC vide letter dated 1.10.2014 has issued TOR to them for

development of outer harbor ay V O Chidambarabar Port, Tuticorin, Tamil Nadu and the validity of TOR extended upto 01.10.2017.

After detailed deliberation, the Committee suggested them to club the new proposal with the existing proposal to evaluate the cumulative impact. The existing ToR, SCZMA recommendations alongwith public hearing will remain same. The Committee recommended to amend the existing TOR letter dated 1.10.2014 issued to PP. The following additional TOR is recommended to incorporate in the EIA study:

i. Submit a copy of layout superimposed on the HTL/LTL map demarcated by an authorized agency on 1:4000 scale.

ii. Recommendation of the SCZMA for both proposals.

iii. Copy of application submitted for clearance from NBWL w.r.t. project located within 10 km distance of Gulf of Mannar Marine National park.

iv. Study the impact of dredging on the shore line.

v. A detailed impact analysis of rock dredging.

vi. Study the impact of dredging and dumping on marine ecology and draw up a management plan through the NIO or any other institute specializing in marine ecology.

vii. A detailed analysis of the physico-chemical and biotic components in the highly turbid waters round the project site (as exhibited in the Google map shown during the presentation), compare it with the physico- chemical and biotic components in the adjacent clearer (blue) waters both in terms of baseline and impact assessment and draw up a management plan.

13.2.2. ` **Construction of North Cargo Berth-III, North Cargo Berth-IV and dredging in front of North Cargo Berth-II, North Cargo Berth-III and North Cargo Berth-IV and filling up of dredged material into reclaiming the land inside V.O. Chidambaranar Port Complex, Tamil Nadu - Amendment in Environmental Clearance - [IA/TN/MIS/60458/2015] [F.No.11-139/2010-IA.III]**

The project was accorded Environmental and CRZ Clearance vide letter No.11-139/2010-IA-III dated 2nd January, 2015 for construction of North Cargo Berth-III, North Cargo Berth-IV and Dredging. As per the environmental clearance received, the North Cargo Berth-III is for handling Thermal Coal & Rock Phosphate and North Cargo Berth-IV is for handling Thermal Coal & Copper Concentrate. Now, due to change in scenario of cargo traffic between the year 2010 and 2016, Port has conducted fresh feasibility study for restructuring the project with respect to trade / traffic demand, project cost etc. Based on Traffic demand the consultant has recommended that the North Cargo Berth-III shall be developed for handling of Coal and North Cargo Berth-IV for handling Containers and Clean cargoes. Port has proposed to take up the project as recommended by the consultant. As such there are some changes in cargo profile proposed from earlier Environmental Clearance issued on 02.01.2015. The details on earlier approved Environmental Clearance and the present proposal for North Cargo Berth-III and North Cargo Berth-IV are as detailed below:

(A) North Cargo Berth-III

Description	**As per Environmental Clearance 02.01.2015**	**Present requirement**
Berth Size	306m X 22.90m	306m X 22.90m
Project Cost	Rs.420 Crores	Rss.586.89 Crores
Cargo to be handled	Thermal Coal & Rock	Coal (Dry bulk cargo)

	Phosphate (Dry bulk cargo)	
Capacity of the Berth	9.15 Million Tonnes	10.22 Million Tonnes
Cargo handling equipment	Grab unloader, Conveyor, Stacker, Reclaimer, Front End Loader	Grab unloader, Conveyor, Stacker, Reclaimer, Front End Loader

(B) North Cargo Berth-IV

Description	**As per Environmental Clearance 02.01.2015**	**Present requirement**
Berth Size	306m X 22.90m	400m X 25m
Project Cost	Rs.355 Crores	Rs.515.18 Crores
Cargo to be handled	Thermal Coal &Copper Concentrate (Dry bulk cargo)	Containers and clean cargoes
Capacity of Berth	9.15 Million Tonnes	8.62 Million Tonnes
Cargo handling equipment	Grab unloader, Conveyor, Stacker, Reclaimer, Front End Loader	RMQCs, RTGCs, Trailers/Prime moves, Reach stackers, Harbour Mobile crane

It is also informed that as for as North Cargo Berth-III is concern, only the project cost & capacity of berth is enhanced. Regarding, North Cargo Berth-IV due to change in cargo profile, from dry bulk cargo to container, the Berth size, Project Cost, Capacity of Berth and Cargo handling equipment evacuation system etc, are changed. However, due to change in cargo from dry bulk to container, the impact on environment will be less. Further, it is informed that there is no change in scope of dredging.

The Committee noted that there is increase in cargo capacity from 9.15 Million Tonnes to 10.22 Million Tonnes. Therefore, it is a case of change in the scope of the project.

The Committee exempted the proposal from public hearing as per Section 7 (ii) of EIA Notification 2006 as public hearing was held for the existing project on 27.12.2013.

After detailed deliberations on the proposal, the Committee recommended project specific TOR for preparation of EIA report:

(i) Submission of certified compliance report issued by the Regional Office on the environmental conditions stipulated in the earlier EC issued by the MoEF and CC.

(ii) SCZMA recommendations for the proposed change.

(iii) Facilities to be provided in the proposed coal cargo.

(iv) Identify the source of air pollution at proposed cargo berth.

(v) Details of air pollution control system to be provided at cargo berth.

(vi) Details of water consumption and its source. Wastewater management scheme.

(vii) Layout plan of Greenbelt to be created around coal stack yard.

(viii) Layout plan for drainage system to be included.

(ix) Solid waste management scheme.

(x) A Biodiversity Management Plan, from the NIO or any marine Ecology related

	institute of repute, for conservation of marine ecology as a result of impacts from dredging and dumping. (xi) Details of Environmental Monitoring Plan. (xii) Disaster Management Plan. TOR will be issued after submission of fresh Form1.
13.2.3.	**Construction of Shimla Passenger Ropeway from Parking Area Near Tourist Information Centre to Mall Road at Tehsil Shimla Urban, Shimla, Himanchal Pradesh by M/s Usha Breco Shimla Ropeway Private Limited- TOR - [IA/HP/MIS/61348/2016][F.No.10-90/2016-IA-III]** The project authorities gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP report. All the projects related to Aerial Ropeway (Elevation greater than 1000 m) are listed at 7(g) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level. M/s Usha Breco Shimla Ropeway Private Limited has proposed for Construction of Shimla Passenger Ropeway from Parking Area Near Tourist Information Centre to Mall Road at Tehsil Shimla Urban, Shimla, Himanchal Pradesh. The project is Category A project as the UTP is at an elevation of 2226 m above MSL. Cost of the project is Rs.296 crores.Cost on EMP will be approx. Rs. 94 Lacs with recurring cost of Rs. 10.1 Lacs/annum. Technology will be used as Monocable Detachable system. The Project is a 3502-m long ropeway, covering an area of 59345.18 sq m (including four Terminal Stations & ropeway corridor). The proposed ropeway shall be developed in two Sections. Section-I consist of LTP - T1 (Parking area near Tourist Information Center, 2006 m above MSL) to UTP-T-3 (Lift, 2137 m above MSL) via Intermediate Station - T2 (Tutikandi ISBT, 1970 m above MSL) & Section-II consist of LTP - T-3 (Lift, 2137 m above MSL) & UTP- T-4 (Mall Road, 2226 m above MSL). There will be a continuous ropeway line from T1 to T4. About 36756.10 sq m (3.68 ha) of area of forest land will be diverted. The alignment falls within a Forest land for development of terminal stations & line towers. About 36756.10 sq m (3.68 ha) of area of forest land will be diverted. Ropeway will have carrying capacity of 1000 persons per hour. Operation of 12 hrs of ropeway is envisaged. Population of 12000 persons/day will use the ropeway. Staff for operation & maintenance to be deployed at project will be about 100 persons. Proper arrangement of water supply and sewage disposal will be made at site. Power Load Requirement will be 2420 KVA. DG sets of capacity 1 X 500 KVA at T1, 1 X 75 KVA at T2, 1 x 1500 KVA at T3 & 1 x 200 KVA at T4 are proposed for backup power supply. These D.G. Sets will be provided with proper stack height as per the CPCB norms. The total water requirement for emergency & other misc. purpose has been estimated as 7 KLD and the source will be municipal supply Water which shall be used mainly for flushing & hand washing, drinking, Gardening & misc. purposes. The generation of total waste water will be 2.8 KLD, which shall be treated in Bio-Toilets provided at Terminal T1 & T4. The treated water of 2.5 KLD obtained from Bio-toilets shall be disposed off in Septic Tank via soak pit provided at Terminal T1 & T4.The location for the water storage tank will be Terminal T-1 & T-4. For drinking water, water cooler/water Dispenser shall be provided at Terminal T-1, T-2, T-3 & T-4.615 Kg/day of municipal waste will be generated of which 430 kg/day of biodegradable waste will be treated in OWCs provided at each of the 4 terminals and converted to compost and 185 kg/day of recyclable waste will be segregated and given to approved recycler. Used

	oil will be given to authorized hazardous waste recycler. Plastic will be minimum used in the area. There will be no displacement or immigration of the human population due to the proposed project. Risk assessment shall be done and proper safety and security measures shall be undertaken. Proper prevention and timely maintenance of ropes, machines etc will be scheduled to prevent any accident. Maintenance team will be trained to handle any type of contingency in time of emergency. All safety guidelines shall be adhered to and followed during construction and operation phases. After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR*for preparation of EIA-EMP report: i. Importance and benefits of the project. ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places) iii. Stage – I forest clearance to be submitted. iv. Toposheet map of 10 km distance indicating eco-sensitive areas dully authenticated by the Wildlife warden. v. Route map of proposed ropeway project. vi. Layout maps of proposed project indicating location of upper station and lower station, building, food court, parking, greenbelt area, utilities etc. vii. Numbers of persons/projections of tourist. viii. Cost of project and time of completion. ix. A note on appropriate process and materials to be used to encourage reduction in carbon foot print. Optimize use of energy systems in buildings that should maintain a specified indoor environment conducive to the functional requirements of the building by following mandatory compliance measures (for all applicable buildings) as recommended in the Energy conservation building code (ECBC) 2007 of the Bureau of Energy Efficiency, Government of India. The energy system include air conditioning systems, indoor lighting systems, water heaters, air heaters and air circulation devices. Use x. Details of air emission, effluents, solid waste and hazardous waste generation and their management. xi. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract) xii. The E.I.A. should specifically address to vehicular traffic management and parking facilities. xiii. An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district. xiv. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. xv. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included.

	Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case. xvi. A tabular chart with index for point wise compliance of above TORs. It was recommended that 'TOR' along with Public Hearing prescribed by the Expert Appraisal Committee (Infrastructure- 2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The draft EIA/EMP report shall be submitted to the State Pollution Control Board for public hearing. The issues emerged and response to the issues shall be incorporated in the EIA report.
13.2.4.	**Setting up of Municipal Solid Waste Management Facility at Plot No. 110/1636 of Khata No. 208, Village Raidandia, Tehsil Udala, District Mayurbhanj, Odisha by M/s. Udala NAC - TOR - [IA/OR/MIS/61362/2016] [F.No.10-91/2016-IA-III]** The project authorities gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP report. All the projects related to common municipal solid waste management facility are listed at 7(i) of schedule of EIA Notification, 2006 covered under category 'B' and appraised at state level. However, applicability of general condition i.e. location of project at a distance of 5 Km from ESZ of Kuldiah Wildlife Sanctuary, proposal is treated as category 'A' project. M/s. Udala NAC has proposed for setting up of Municipal Solid Waste Management Facility at Plot No. 110/1636 of Khata No. 208, Village Raidandia, Tehsil Udala, District Mayurbhanj, Odisha. PP informed that one alterntive site was examined in Village Holdia. But this site was rejected as it is a forest land. The total area of the site would be 6 Acres and the capacity of processing plant facility will be 2.25 TPD in 2022, 2.74 in 2032, 3.26 in 2042. The site is being used for dumping of waste and no scientific disposal method is being followed. Land belongs to the UdalaNAC.Tehsildar of Udala has given the permissive possession vide letter No.436 dated 8th February, 2010 to the Udala NAC. It is reported that protect areas namely, Phulajhari RF-5.00 km, North-West Arabandh RF-9.5 km, South-East Udala RF-1.5 km,North-West Khunta RF-14.3 km,North-East Nahara RF-13.5 km,North-East Tinsukia RF-13.4 km,South-East Nachhipur RF-12.6 km,South-West Asanbani RF-12.4 km,South-West Similipal National Park and Tiger Reserve-12.5 km, West Kuldiah Wildlife Sanctuary - 9.16 km, South ESZ of Kuldiah Wildlife Sanctuary - Within 5 km radius of Project site are located within 15 km distance. Water bodies namely Sunai Nadi-1.65 km, South Tangana Nadi-8 km, North-East Deo Nadi-3.5 Km are located within 15 km distance. Total cost of the project is Rs. 4.83 Crores.The proposed integrated MSW management project will include following components : a) Waste collection & transportation Facility, Intermediate Waste Storage Facility, Pre-processing facility, processing facility (Composting). b) Inert waste will be disposal at Baripada Landfill site. The water requirement during construction phase, 20 KLD of water will be required that will be met through water tanker. During the operational phase, 8 KLD of water will be required that will be abstracted through bore wells. Power consumption during the operational phase will be 60 KW and will be supplied by Central Electricity Supply Utility of Orissa (CESU).Area earmarked for greenbelt is 4,822 sqm After detailed deliberations on the proposal, the Committee *recommended for grant of*

	Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity and the following TOR in addition to *Standard ToR*for preparation of EIA-EMP report: i. Importance and benefits of the project. ii. A sensitivity analysis of the site shall be carried out as per the MoEF criteria and form part of the EIA report. iii. Details of various waste management units with capacities for the proposed project. Details of utilities indicating size and capacity to be provided. iv. List of waste to be handled and their source along with mode of transportation. v. The project proponents should consult the Municipal solid waste Management manual of the Ministry of Urban Development, Government of India and draw up project plans accordingly. vi. Methodology for remediating the project site, which is presently being used for open dumping of garbage. vii. Layout maps of proposed solid waste management facilities indicating storage area, plant area, greenbelt area, utilities etc. viii. Details of air emission, effluents generation, solid waste generation and their management. ix. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract) x. Process description along with major equipments and machineries, process flow sheet (quantative) from waste material to disposal to be provided xi. Hazard identification and details of proposed safety systems. xii. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. xiii. Details of effluent treatment and recycling process. xiv. Action plan for measures to be taken for excessive leachate generation during monsoon period. xv. Detailed Environmental Monitoring Plan. xvi. Report on health and hygiene to be maintained by the sanitation worker at the work place. xvii. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. xviii. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case. xix. A tabular chart with index for point wise compliance of above TORs. It was recommended that **'**TOR**'** along with Public Hearing prescribed by the Expert Appraisal Committee (Infrastructure- 2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The draft EIA/EMP report shall be submitted to the State Pollution Control Board for public hearing. The issues emerged and response to the issues shall be incorporated in the EIA report.
13.2.5.	**Proposed Ropeway with Building Constructions (Amusement Park With Mini Hill Station Township) At Munnar, Idduki District, Kerala by M/s Valley World Entertainments Private Ltd - TOR - [IA/KL/MIS/61394/2016] [F.No.10-92/2016-IA-III]**

During the meeting, the project proponent made a presentation and provided the following information to the Committee:-

(i) The project involves ropeway with building constructions (Amusement Park with Mini Hill Station Township) at Munnar, Idduki District, Kerala promoted by M/s Valley World Entertainments Private Ltd.

(ii) For proposed ropeway, the elevation of LTP is 874.33 m & UTP is 920.15 m above MSL and the project lies in Konnathadi village which falls in Eco-sensitive area of the Western Ghats thus it is Category A project. The Built-up area of the project will be 149600.00 sqm. Details of the Terminals are as follows:

Station	Latitude	Longitude
Terminal T1 (LTP)	77° 4'3.47"E	9°54'45.08"N
Terminal T2 (UTP)	77° 2'56.99"E	9°56'27.08"N

(iii) Land use of the site is as under:-

Particulars	Area in Sqm	Percentage
Ground Coverage	37424	10.97
Green Area	153972	45.12
Amusement park & Water show, Giant Wheel, Ropeway	95860	28.09
Surface Parking Area	18000	5.27
Internal Roads	36000	10.55
Total	341256	100.00

Area required (for Ropeway)	Total Area (In Sq. m.)
Lower Terminal Station-A	1000 sqm
Upper Terminal Station -B	600 sqm
Ropeway Length-C	3602 mtrs
Right of Way-D	10 m
Corridor of the alignment - E	36020 sqm
Total (A+B+E)	37620 sqm

(iv) The area required for the construction of the proposed Ropeway with Building Constructions (amusement park with mini hill station township) would be about 341256 sqm, out of which 37620 sqm shall be utilized for construction of Ropeway terminals and corridor. For proposed ropeway, the elevation of LTP is 874.33 m & UTP is 920.15 m above MSL.

(v) **Justification for selection of the site**: The project is to set up a world class Tourism infrastructure at Munnar, Kerala, India. The project proponent will develop Ropeway with Building Constructions (amusement park with mini hill station township). Visitors can also enjoy a panoramic view of Kerala from the observation deck “The Skywalk”, standing at about 3000 ft above sea level. From here, visitors can breathe in the cool fresh air enjoy the magnificent view. The project comprises of retractable roof at the lower station and elevated walkway. With a view to provide a sky-diving area for the tourists, this will be achieved by preserving the ecosystem, the natural surroundings, and the flora and fauna.With a view to provide a skydiving area for the tourist & residents that will visit the township and amusement park, the M/s Valley World Entertainments Private Ltd. has identified sites & thus required the ropeway facility for reaching at skydiving area. Three alternative routes were assessed. Out of the three

	alternative routes the Alternative-II was found appropriate. The three-alternative alignment has been discussed below: **Alignment 1:** • There will be cutting of trees at UTP area & along the corridor also. • No parking space will be available **Alignment 2 (Selected Alignment):** This alignment starts with its LTP near township area. The corridor traverses over a thin vegetation with very few trees upon land. The alignment finally ends its Upper Terminal Point at skydiving area. • The alignment is clear of any urban habitat in its corridor • Parking of township will carter the visitors of the ropeway, no extra parking land is required. • Accessibility from township to lower LTP is good. **Alignment 3:** • Accessibility from township area is poor. • Enough parking space is not available at LTP area. • There will be major cutting of trees at UTP area (vi) The Built-up area of the project will be 149600.00 sqm. The project is to set up a world class Tourism infrastructure at Munnar, Kerala, India. The project proponent will develop Ropeway with Building Constructions (amusement park with mini hill station township). Visitors can also enjoy a panoramic view of Kerala from the observation deck "The Skywalk", standing at about 3000 ft above sea level. From here, visitors can breathe in the cool fresh air enjoy the magnificent view. The project comprises of retractable roof at the lower station and elevated walkway. With a view to provide a sky-diving area for the tourists, this will be achieved by preserving the ecosystem, the natural surroundings, and the flora and fauna.With a view to provide a skydiving area for the tourist & residents that will visit the township and amusement park, the M/s Valley World Entertainments Private Ltd. has identified sites & thus required the ropeway facility for reaching at skydiving area. (vii) For proposed ropeway, the elevation of LTP is 874.33 m & UTP is 920.15 m above MSL. The alignment will be 3602 metres in length with an elevation difference of 45.82 metres, covering an area of 37620 sq m (including Terminal Stations & ropeway corridor). (viii) The proposed project will consist of three parts namely mini hill station Township area, Ropeway and Sky-Diving area. The ropeway will be built with its Upper Terminal Point at skydiving area and the Lower Terminal Point at mini hill station township. With a view to provide a sky-diving area for the tourists and the residents of Township, the ropeway facility will be provided for reaching at skydiving area. Thus, the ropeway facility shall inter-connect the mini hill station Township area and Sky-Diving area. (ix) Activities in the proposed Township will be Amusement park & Water show, Giant Wheel, Residential Apartment, Studio Apt, Five Star Hotel, Villas, Convention Centre, Commercial Building, Clinic, Office and Restaurant. Area land use is as under: (x) **Investment/Cost:**Estimated Cost of the project will be approximately Rs. 615 crores. (xi) **Whether the project is in Critically Polluted Area**: The project does not fall under Critically Polluted Area. (xii) **Diversion of the forest land:** There is no diversion of forest land hence not applicable. Bracknell forest is located at distance of 11.06 km NE. (xiii) **Eco Sensitive Area**: The project lies in Konnathadi village which falls in Eco-sensitive

area of the Western Ghats thus it is Category A project. Idukki Wildlife Sanctuary is located at distance of 12.65 km SW.

(xiv) The project will have its own STP of 830 KLD for treatment of approx. 687 KLD wastewater.

(xv) Used Oil of approx. 84 L/month from DG sets & machinery will be given to authorized hazardous waste vendor**.** Details of wastes is as under:

Type of Waste	**Colour of Bin**	**Category**	**Disposal Method**	**Total Waste (kg/day)**
Organic Waste	Green	Bio-degradable	The waste will be treated in Organic Waste Convertor and converted into compost	2530
Recyclable Waste	Blue	Recyclable	Collected and given to approved recycler	1084
Total Waste				**3614 kg/ day**

(xvi) **Water Requirement**: Total peak water requirement will be 1283 KLD out of which 630 KLD is fresh water requirement. The water will be supplied by KWA.

(xvii) **Employment Potential**: During construction 250 no. of labour will be employed and during operation phase, there will be employment to 1374 staff along with large amount of indirect employment.

(xviii) **Benefits of the project**: It will increase Infrastructure of the area & will be a planned & managed development in the area. It will set a precedent for others to develop planned Ropeway with Building Constructions project which will cumulatively help the area to be much more managed in future. It will provide a planned housing society with convenient shopping, Convention Centre, amusement park to fulfil basic needs of the residents as well as the people of nearby areas, community facility and club for the residents of the colony. Visitors can also enjoy a panoramic view of Kerala from the observation deck "The Skywalk", standing at about 3000 ft above sea level. With a view to provide a skydiving area for the tourist & residents that will visit the township and amusement park, the ropeway facility will be provided for reaching at skydiving area. Aerial Ropeway is fast emerging technology of providing not only tourist experience but an urban transportation means especially for hilly and tough terrains. It is totally environment friendly with least generation of any type of pollutants.

The Committee noted that the project site is located in Konnathady Village which is in the list of ESA villages at S.N 1770 as notified by MoEF dated 17.04.2013, which prohibits certain activities to carry out.

In view of the above, it was decided to obtain the comments of ESZ Division of the Ministry before finalizing the TOR for the proposed project.

13.2.6.

Proposed construction of Himani Chamunda Passenger Ropeway at Himani Chamunda Devi Temple, District Kangra, Himachal Pradesh by M/s Usha Breco Chamunda Devi Ropeway Private Limited- TOR - [IA/HP/MIS/61402/2016] [F.No.10-93/2016-IA-III]

The project authorities gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP report. All the projects related to Aerial Ropeway (Elevation greater than 1000 m) are listed at 7(g) of schedule of EIA Notification, 2006 covered

under category ‘A’ and appraised at central level.

M/s Usha BrecoChamunda Devi Ropeway Private Limited has proposed forconstruction of HimaniChamunda Passenger Ropeway at HimaniChamunda Devi Temple, District Kangra, Himachal Pradesh.The HimaniChamunda Temple is at an elevation of 2778 m above MSL.The proposed system to be installed at Chamunda Devi temple will be Continuous Detachable Monocable Gondola System. The Project is a 5520-m long ropeway, covering an area of 107768 sqm (including three Terminal Stations & ropeway corridor). Cost of the project will be approximately Rs.289 crores. The proposed ropeway shall be developed in two Sections., Section-I consist of LTP - T1 to MTP-T-2 & Section-II consist of MTP - T-2 to UTP (T-3). There will be a continuous ropeway line from T1 to T3.

Station	Latitude	Longitude
Terminal T1	76°25'5.77"E	32° 8'55.79"N
Terminal T2	76°26'32.46"E	32°10'51.82"N
Terminal T3	76°26'59.24"E	32°11'27.47"N

The alignment falls within a Forest land for development of terminal stations & line towers. About 85849 sq. m (8.5849 ha) of area of forest land will be diverted. This activity will be carried out as per the guidelines of the Forest (Conservation) Act, 1980.One of the many religious places of worship in Kangra, AadiHimaniChamunda temple in the lower reaches of the Dhauladhar ranges stands around 2920 m tall and is a heavenly place to visit. Presently, HimaniChamunda temple is accessible via two trek routes. The more frequented trek route connects Chamunda temple with HimaniChamunda via Jia village which is a few km from the Chamunda Devi Temple

The proposed ropeway shall be developed in two Sections. Section-I consist of LTP - T1 (Chamunda Devi Temple, 1057 m above MSL) to MTP-T-2 (Mid Station, 2127 m above MSL) & Section-II consist of MTP - T-2 (Mid Station, 2181 m above MSL) – UTP (HimaniChamunda Temple, 2771 m above MSL) (T-3).

The total water requirement for emergency & other misc. purpose has been estimated as 6 KLD and the source will be Gram Panchayat. Water shall be used mainly for flushing & hand washing, drinking, Gardening & misc. purposes. The generation of total waste water will be 2 KLD, which will be disposed off in bio toilets and after that treated water shall be discharged to septic tank followed by soak pit. The location for the water storage tank will be Terminal T-1, T-2 & T-3. For drinking water, water cooler/water Dispenser shall be provided at Terminal T-1, T-2, and T-3.

1090 Kg/day of waste will be generated of which 763 kg/day of biodegradable waste will be treated in OWCs proposed at Terminal-1 & Terminal-3 and converted into compost and 327 kg/day of recyclable waste will be segregated and given to approved recycler. Used oil will be given to authorized hazardous waste recycler.Total power load of the project is 2000 kVA. DG sets of 1 x 250 KVA at T1, 1 x 1010 KVA and 1 x 500 KVA at T2& 1x 80 KVA at T3 will be provided at terminals respectively.

After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR*for preparation of EIA-EMP report:

i. Importance and benefits of the project.

ii. A toposheet of the study area of radius of 10km and site location on

	1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places) iii. Stage – I forest clearance to be submitted. iv. Route map of proposed ropeway project. v. Layout maps of proposed project indicating location of upper station and lower station, building, food court, parking, greenbelt area, utilities etc. vi. Numbers of persons/projections of tourist. vii. Cost of project and time of completion. viii. A note on appropriate process and materials to be used to encourage reduction in carbon foot print. Optimize use of energy systems in buildings that should maintain a specified indoor environment conducive to the functional requirements of the building by following mandatory compliance measures (for all applicable buildings) as recommended in the Energy conservation building code (ECBC) 2007 of the Bureau of Energy Efficiency, Government of India. The energy system include air conditioning systems, indoor lighting systems, water heaters, air heaters and air circulation devices. ix. Details of air emission, effluents, solid waste and hazardous waste generation and their management. x. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract) xi. The E.I.A. should specifically address to vehicular traffic management. xii. An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district. xiii. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. xiv. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case. xv. A tabular chart with index for point wise compliance of above TORs. It was recommended that **'TOR' along with Public Hearing** prescribed by the Expert Appraisal Committee (Infrastructure- 2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The draft EIA/EMP report shall be submitted to the State Pollution Control Board for public hearing. The issues emerged and response to the issues shall be incorporated in the EIA report.
13.2.7.	**Construction of New Domestic Terminal Building at Patna Airport, Patna, Bihar by M/s Airport Authority of India - TOR - [IA/BR/MIS/61409/2016][F.No.10-94/2016-IA-III]** The project authorities gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP report. All the projects related to Airports are listed

	at 7(a) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level. M/s Airport Authority of India has proposed for construction of New Domestic Terminal Building at Patna Airport, Patna, Bihar. The increased passenger load due to increase in no. of flights has posed a congestion in the old terminal building leading to necessity for a new higher capacity Terminal building. The airport is spread over an area of 247.16 acres. Cost of project is Rs. 722.05 Crore. Following facilities will be developed: a) Construction of centrally new domestic terminal building with all modern facilities and amenities conforming to GRIHA 4 Star Rating b) Construction of ATC Tower-cum-Technical Block, Administrative Block c) Construction of Multi Level Car Park d) Construction of fire station, cargo terminal, MT Pool e) Residential colony for about 120 nos. of AAI staff. After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR* for preparation of EIA-EMP report: i. Importance and benefits of the project. ii. Copy of consent to establish and consent to operate for the existing airport facilities. iii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places). iv. Layout maps of proposed project indicating runway, airport building, parking, greenbelt area, utilities etc. v. Cost of project and time of completion. vi. A note on appropriate process and materials to be used to encourage reduction in carbon foot print. Optimize use of energy systems in buildings that should maintain a specified indoor environment conducive to the functional requirements of the building by following mandatory compliance measures (for all applicable buildings) as recommended in the Energy conservation building code (ECBC) 2007 of the Bureau of Energy Efficiency, Government of India. The energy system include air conditioning systems, indoor lighting systems, water heaters, air heaters and air circulation devices. Use vii. Details of emission, effluents, solid waste and hazardous waste generation and their management. Air quality modelling and noise modelling shall be carried out for the emissions from various types of aircraft. viii. Classify all Cargo handled as perishable, explosive, solid, petroleum products, Hazardous Waste, Hazardous Chemical, Potential Air Pollutant, Potential Water Pollutant etc. and put up a handling and disposal management plan. ix. Noise monitoring shall be carried out in the funnel area of flight path. x. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract) xi. The E.I.A. should specifically address to vehicular traffic management as well as estimation of vehicular parking area.

	xii. Details of fuel tank farm and its risk assessment. xiii. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. xiv. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case. xv. A tabular chart with index for point wise compliance of above TORs. It was recommended that **'TOR' along with Public Hearing** prescribed by the Expert Appraisal Committee (Infrastructure- 2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The draft EIA/EMP report shall be submitted to the State Pollution Control Board for public hearing. The issues emerged and response to the issues shall be incorporated in the EIA report.
13.2.8.	**Setting up of Mini Bulk Carriers Handling Facility in the Upstream of 3rdOil Jetty with the Help of Floating Crane/ Pontoon Fitted Crane at HDC, Kolkata Port Trust by M/s Kolkata Port Trust – Environmental Clearance [IA/WB/MIS/30603/2015][F.No.10-26/2015-IA-III]** The project authorities and their consultant (M/s Wapcos Limited) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Draft Terms of References (TORs) awarded during the 153rd Meeting of the Expert Appraisal Committee (Infrastructure) held during 18th- 20th November, 2015 for preparation of EIA-EMP report. The ToR was granted to the project vide letter No. 10-26/2015-IA-III dated 8th January, 2016. All the projects related to Ports, Harbour and dredging are listed at 7 (e) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level. M/s Kolkata Port Trust has proposed for setting up of Mini Bulk Carriers Handling Facility in the Upstream of 3rdOil Jetty with the Help of Floating Crane/ Pontoon Fitted Crane at HDC, Kolkata Port Trust. The scheme further envisages construction of hardstand and road from the shore up totransit storage area of cargo at the extended area of G.C. Berth along with design, construction and setting up of the floating jetty facility with all ancillary cargo handling equipment in the upstream of 3rd oil jetty. The project envisages creation of a new cargo handling facility at HDC, KoPT. The total area envisaged to be utilized on the shore is 18000 m^2. Total area envisaged to be utilized in river is 2000 m^2. Haldia Dock Complex of Kolkata Port Trust proposes to construct a floating barge jetty with Crane facility at the upstream of 3rd oil jetty at latitude 22 ^{o} 01' 12.4'' N and Longitude 88° 04'39.1'' to handle Mini Bulk Carriers (MBC) of about 10,000-12,000 DWT carrying cargo like Coal etc. Cargo handling capacity will be 2.55 MMTPA. The total cost of the project is Rs. 73.70 cores.The project envisages unloading of cargo from MBC by means of a crane to be fitted over a floating pontoon and RCC Walkway platform to be transferred by means of Conveyor to shore hardstand. The cargo will be evacuated by 25 numbers of 10 wheeler dumper, 9 numbers of Pay loader, 2 numbers Excavators and one number of bull Dozers and storing the same at the L plots of G.C. Berths. The pontoon size is 70m x 25m with 3 m depth with draught of 1.8 m.The components of the project are as under:

- Commissioning of afloating Crane/Pontoon (70m x 25m X 3 m) fitted with Crane, Payloader and Mooring Boat pontoon.
- Commissioning of Conveyorbelt & hopper; Pile support & deadman &bollards
- Width of conveyor belt with a width of 1.5 m and capacity to carry 540 m^3 per hour at a belt speed of 2 m/sec.
- 7 m wide Approach Trestle having 1.5 m walk way on each side
- 2 nos of Berthing dolphins (of size 6mx6m , each deck comprising of 4 nos of 1300 mm dia piles)
- 4 nos of 600 mm dia pile for installing 50 MT bollards
- Paver topped Hardstand : 100m x 40 m

It is reported that no eco-sensitive area is located within 10 km distance. PP confirmed that no dredging will be carried out. It is reported that during project operation phase, a large portion of cargo would be handled through road. The Committee insisted them to implement rapid rail loading for cargo evacuation. A total water requirement during operation phase has been estimated as 153.5 m3/day. Quantity of sewage likely to be generated during operation phase would be of the order of 2.8 m^3/day. Hence it is proposed that the sewage generated form the jetty during operation phase shall be treated in the existing STP of Haldia Dock Complex comprising of waste stabilization pond. The measures will be taken for prevention and control of water pollution are i) Slope of the bulk cargo storage facility will be towards landward side to avoid storm water draining into the river; (ii)Runoff will be collected in a sump and allowed to settle. An oil separator will be installed prior to the sump to arrest oil and grease from entering into the sump. Clear water from the sump will be allowed to overflow to the existing storm water drain of HDC for ultimate disposal. In addition, to prevent or minimize storm water pollution appropriate storm water pollution prevention plan (SWPPP) will be developed. SWPPP will be specific, because every unit is unique with source, type and volume of contaminated storm water discharge; (iii) Bulk cargo area will be paved and made impermeable for any leachate to percolate to the subsurface water table; (iv) Ballast and bilge water will be, handed over to registered re-refiners or treated at ballast water treatment plant available in Haldia Dock Complex. (v) While pumping out bilge and ballast water from ship to shore, care will be taken to avoid spillage. PP informed that greenbelt will be developed in 9500 m^2. Out of which 8100 m2 area is earmarked along 1.35 km long road from temporary stack yard to common stack yard. 1400 m^2 is earmarked along the periphery of temporary stack yard.

Public hearing was conducted by WBSPCB on 21st September, 2016. Issues raised during public hearing were regarding greenbelt development in township, river bank and other areas of port; etc. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

SCZMA Recommendations: The West Bengal Coastal Zone Management Authority (WBCZMA) has recommended the project vide their letter No.285/EN/T-II-4/011/2016 dated 26th December, 2016. The HTL/LTL demarcation for the project site was conducted by Institute of Environmental Studies and Wetland Management, Kolkata. The Project area falls in the Zone-I,II& IVB As per CRZ notification, 2011.

After detailed deliberations, the Committee recommended the project for environmental and CRZ clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance:

(i) Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.

	(ii)	*All the recommendations and conditions specified* West Bengal Coastal Zone Management Authority (WBCZMA) vide letter No.285/EN/T-II-4/011/2016 dated 26th December, 2016*shall be complied with.*
	(iii)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.
	(iv)	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.
	(v)	The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.
	(vi)	The commitments made during the Public Hearing and recorded in the Minutes shall be complied with letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.
	(i)	All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster management Plan shall be strictly complied with.
	(ii)	The coal shall be stored only in designated stock yard with dust control measures viz. wind screen of height at least 2 m above the coal stock, made of fabric/HDPE, water sprinkler arrangement, green belt of at least three layers of suitable trees and scrubs.
	(iii)	The coal from the ships shall be conveyed through closed conveyor to the coal stock yard. The conveyor shall be seamless without joints/transfer points.
	(iv)	The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.
	(v)	Cargo shall be unloaded directly into hopper from the ship and transported to the stack yards through closed conveyor system only. Inbuilt dust suppression systems shall be provided at hoppers and all the transfer points / storage yards. Cargo shall not be unloaded directly onto the berth. Water meters shall be provided at different locations to record the consumption of water used for dust suppression and daily log shall be maintained.
	(vi)	The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.
	(vii)	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
	(viii)	Runoff from project site shall be passed through an oil separator followed by setting tank. Treated water from the sump shall be allowed to overflow to the existing storm water drain of HDC for ultimate disposal. All the operational areas shall be connected with the network of liquid waste collection corridor comprising of storm water, oily waste and sewage collection pipelines.
	(ix)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as

	part of the management plan. (x) Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle. (xi) All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report. (xii) Ships/barges/vessels shall not be allowed to release any oily bilge waste or ballast water in the sea. Any effluents from the Jetty which have leachable characteristics shall be segregated and recycled/disposed as per SPCB guidelines. Ships/vessels calling at the jetty shall not dump waste/bilge water during the berthing period. (xiii) Location of DG sets and other emission generating equipment shall be decided keeping in view the predominant wind direction so that emissions do not effect nearby residential areas. Installation and operation of DG sets shall comply with the guidelines of CPCB. (xiv) The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
13.2.9.	**Extension of Runway at 24 Beginning, Expansion of Apron Suitable for C Type of Aircraft and other associated works at Swami Vivekananda Airport at Raipur (Chhattisgarh) by Airport Authority of India–Environmental Clearance – [IA/CG/MIS/61599/2015][F.No.10-6/2015-IA.III]** The project authorities and their consultant (M/s ABC Techno Labs) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Draft Terms of References (TORs) awarded during the 148th Meeting of the Expert Appraisal Committee (Infrastructure) held during 19th- 21st May, 2015 for preparation of EIA-EMP report. Terms of Reference issued by MOEF&CC vide letter No. 10-06/2015-IA-III dated 18th June, 2015 and TOR was amended vide letter dated 14th July 2016. All the projects related to Airports are listed at 7(a) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level. Airport Authority of India has proposed for extension of Runway at 24 Beginning, expansion of Apron Suitable for C Type of Aircraft and other associated works at Swami Vivekananda Airport at Raipur, Chhattisgarh.The geographical coordinates of existing airport are 21° 10' 49.15" North and 81° 44' 24.99" East. The total area of the existing airport is 287.648 ha and additional land is 128.662 ha which has been acquired by NRDA (Naya Raipur Development Authority) and handed over to AAI (Airport Authority of India) for proposed extension. Total cost of project is Rs 103.5 Crores. There is provision of extension of runway by 965 m x 45 m towards runway 24 beginning to make the operational runway. Dimensions of runway after extension will be 3251m x 45 m with 7.5 m wide shoulders on either side of extended runway. Following activities will be carried out

	: a). Removal of obstructions and structures in the area of extension of Runway, basic stripand approach funnel. b). Provision of runway shoulders 7.5m wide on either side of extended runway. c). Provision of turn pad foe Code letter 'Cat-4C' type of aircraft as per annex-14 and DGCA CAR. d). Appropriate slope of runway, apron, RESA and levelling, grading, development of runway strip shall be given and DGCA CAR to facilitate draining of rain water into drainage system. e). Provision of RESA of 240 m × 90 m dimension at both the ends of runway as perplanning of rain water into drainage system. f). Declaration of PCN values of the runway and standard runway markings. g). Provision and extension of boundary wall to ensure that both new and old boundary walls constructions are commensurate with BCAS norms. Provision of perimeter road, along with lighting and CISF watch tower, inside the boundary as per the current norms. h). Construction of box culverts of strength to withstand Code-4C type of aircraftoperations in case such culverts are needed as per site requirement for drainagepurpose of cable crossing. i). Provision of cable crossing with RCC hume pipes of required size and class at suitable location at proposed extension of runway. j). Expansion of apron. Small drain is passing in alignment of proposed extension of runway, which remains dry. Culvert is proposed over this drain to maintain natural drainage. Local road passing through proposed alignment of extension of Runway will be diverted to maintain access for road users. The extension airport will require approx 7 Lakhs cum earth filling, which will be obtained approved borrow areas. No trees will need to be felled for proposed extension of runway and associated works. It is reported that there is no eco-sensitive area within 10 Km radius area from the Raipur airport. There is no forest land diversion involved in the project. Total water requirement for the Swami Vivekananda Airport will be 430 m^3/day, which includes 100 m^3/day water for HVAC, 50 m^3/day for CFT and 280 m^3/day for domestic purposes. Water requirement is met through tube wells already available at the Swami Vivekananda Airport. Total estimated wastewater generation during the operation phase is 180 KLD (maximum), which is treated in Sewage Treatment Plant (STP) of 200 KLDcapacity. After treatment, treated wastewater is reused for landscaping and green belt purpose. No wastewater is discharged outside the airport premises.Aftertreatment, treated wastewater is reused for landscaping and green belt purpose. No wastewater is discharged outside the airport premises.Approx 150 kg per day solid waste is generated during operation at existing airport, which in collected, segregated and managed by external agency for disposal. Hence, the impact on the soil is insignificant as an organized solid waste collection and disposal practices exist at the Raipur airport.Used lubricating waste oil from maintenance of DG sets and batteries, electronic wastes are collected separately and are sold to authorized recyclers as per CPCB/ CECB guidelines.The existing airport has power requirement 1500 kVA, which is meeting through power Grid Power Supply.Forpower back up 4 DG sets of 750 kVA capacities each and 2 DG sets of 320 kVA capacity each are available.The passenger capacity of existing terminal building is 500 domestic passengers and 200 international passengers. The parking facilities have been provided for 28 VIP cars, general parking for 350 cars, 150 two wheelers and 10 buses. Public hearing was conducted by Chhattisgarh Environment Conservation Board on 23.11.2016. Issues raised during public hearing were regarding local employment, labour wages, toilet construction, Air pollution control measures, etc. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

	The Committee noted that MoEF&CC has granted environmental clearance to Airports Authority of India on 29th July, 2008 for expansion of Raipur Airport. It was decided that PP should submit the certified compliance report issued by the Region Office, Bhubaneswar on the existing environmental conditions stipulated in the EC.
13.2.10.	**Construction of Dedicated Berth and other Infrastructure Facilities for the Administration of the Union Territory of Lakshdweep at Beypore, Calicut, Kerala by M/s CPWD, Calicut Central Circle – Environmental and CRZ Clearance - [IA/KL/MIS/32325/2013] (F.No.10-64/2013-IA.III]** The project authorities and their consultant (M/s Wapcos Limited) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Draft Terms of References (TORs) awarded during the 129th Meeting of the Expert Appraisal Committee (Infrastructure) held during 26th- 28th December, 2013 for preparation of EIA-EMP report. The ToR was granted to the project vide letter No.10-64/2013-IA-III dated 19th February, 2014. All the projects related to Ports, Harbour and dredging are listed at 7 (e) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level. M/s CPWD, Calicut Central Circle has proposed for Construction of Dedicated Berth and other Infrastructure Facilities for the Administration of the Union Territory of Lakshdweep at Beypore, Calicut, Keralato handle the passenger and Cargo traffic. To meet essential requirements of the people of these islands, Lakshadweep Administration has been operating ships/vessel between Kochi, Beypore and Mangalore Ports in mainland and islands. All the PDS items, Petroleum products and other items are being transported from Beypore and Mangalore ports to these islands.The Existing Beypore Port is located on the south western coast of India (latitude 11° 10' 0" N & longitude 75° 47' 59" E), which is midway between the two major ports of Cochin and New Mangalore. The coordinates of the proposed dedicated berth for Lakshadweep are 11°9'48.96"N and 75°48'27.74"E. Proposed jetty will be constructed as a northern extension to the existing Port, east of the existing fishing harbour. The location is well connected by road, rail, air and water. Cost of the project isRs.49.23 Crore. The major components proposed as a part of the dedicated berth andassociated facilities for the referred project includes the following: a) Construction of dedicated berth structure of size 200 x 20 m. b) Passenger amenities hall in three storied (G+2) RCC frame structure ofsize 18 x 18 m. c) Two warehouses of size 70m x 20m and 67m x 20m. d) Allied facilities such as land development, retaining structures, approachroad, water and power supply, firefighting arrangements and vehicleparking facilities. e) Land surface area is only 3600 m^2, out of the total required area of10000 m2. Filling with earth will be required with retaining wall along theperimeter for the construction of structures in the water covered area. f) Dredging in navigation channel and the turning circle. The total dredgingquantity works out to beabout 56744 m^3. g) Construction of bulk services and development works. h) Firefighting arrangements One terminal building is proposed for passengers to accommodate the passenger traffic flow. The proposed passenger hall will include the waiting halls, security checks, ticket verification counters, medical aid, rest rooms, water and power supply, fire safety equipments, etc. The proposed terminal is a 3 storied framed structure with a total builtup area of 986.15 m^2. The total height of the building is 17.31 m above the deck level (+3 level) with a 4 m floor height on

	all three floors. A 2 m wide staircase, a 13 passenger capacity lift and another 10- passenger capacity lift are provided for easy vertical movement of passengers. Dredging for 200 x 20 Metres in front of the wharf will be carried out. The total quantity of dredged material from capital dredging works out to be approximately 56744m$^{3.}$The dredge material will be used in the land filling at low laying area. It is reported that Kadalundi Bird Sanctuary is situated at an aerial distance of 4.2 km from the proposed project site. During construction phase, stockpiling of excavated material will be kept covered. Excessive soil on paved areas will be sprayed (wet) and/or swept and unpaved areas will be sprayed with water to control fugitive emissions. During operation phase, in order to control fugitive emissions from handling of bulk cargoes, the Committee suggested them that storage area shall be earmarked with covered shed and concrete floor. Efforts will be made to reduce the noise generated by the various construction equipments. Construction activities like dredging, etc will be carried out in the confined manner to reduce the impacts on marine environment. Construction waste including debris shall be disposed safely in the designated areas and in no case shall be disposed in the marine environment. Dredging shall not be undertaken during fish breeding season and other special weather situations. Fresh water requirement will be 1.25 m^3/day. Wastewater generation will be 1 m3/day and treated in STP. STP of 10 KLD is proposed for sewage treatment. The Moving Bed Biological Reactor (MBBR) technology will be used for wastewater treatment and treated water will be used for horticulture. The project area falling in CRZ – II. The Kerala Coastal Zone Management Authority (KCZMA) has recommended the project vide their letter No. 1198/EC4/2016/SEIAA dated 25th July, 2016. The Public Hearing was conducted by KSPCB on 26th February, 2015 at Krishnan Memorial Auditorium, Beypore, Calicut.District Collector has certified that public hearing was conducted by Shri Anil Kumar, Election Deputy Collector, and rank of Deputy Collector Election is not less than the rank of Deputy Collector General (ADM). Issues raised during public hearing were regarding land acquisition, location of the project, impact on temple, completion of project etc. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report. After detailed deliberations, the Committee recommended the project for environmental and CRZ clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: (i) Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area. (ii) The environmental clearance is subject to obtaining prior clearance for Wildlife from the Standing Committee of the National Board for Wildlife. (iii) *All the recommendations and conditions specified* Kerala Coastal Zone Management Authority (KCZMA) vide letter 1198/EC4/2016/SEIAA dated 25th July, 2016*shall be complied with.* (iv) The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained. (v) Shoreline should not be disturbed due to dumping. Periodical study on shore line

	changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report. (vi) All the roads in the vicinity of the project site and the roads connecting the quarry sites to the construction site should be paved or black topped to minimize the fugitive emissions. (vii) Construction especially on marine front and dredging shall not be carried out during the fish breeding season. (viii) Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage. (ix) Construction waste including debris shall be disposed safely in the designated areas and in no case shall be disposed in the marine environment. (x) Ships shall be prohibited to discharge oil or oily water such as oily bilge water containing more than 15 ppm of oil. (xi) As proposed, 15 m width of the greenbelt shall be provided around the periphery of the jetty.
13.2.11.	**"CAPFIMS" Central Armed Police Forces Institute of Medical Sciences Along with its Referral & Research Hospital & Allied Institutes at MaidanGarhi, New Delhiby Central Armed Police Forces Institute of Medical Sciences – Environmental Clearance -[IA/DL/NCP/24671/2014][F.No.10-26/2014-IA.III]** The project authorities and their consultant (M/s Perfect Enviro Solution Pvt. Ltd.) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Draft Terms of References (TORs) awarded during the 143rdMeeting of the Expert Appraisal Committee (Infrastructure) held during 6th-27thJanuary, 2015 for preparation of EIA-EMP report. Terms of Reference (ToR) was granted by MoEF&CCvide letter No.10-26/ 2014-IA-III dated 12th February, 2015.Proposed project falls under item no. 8 (b) i.e. Township and area development projects of the schedule of the EIA Notification, 2006. As per amended notification dated 9.12.2016, covering an built up area more than 3,00,000 m^2, proposal is categorized as Category 'A' and appraised by EAC. Central Armed Police Forces Institute of Medical Sciences has proposed for development of "CAPFIMS" Central Armed Police Forces Institute of Medical Sciences Along with its Referral & Research Hospital & Allied Institutes at MaidanGarhi, New Delhi. The land is allotted by DDA vide allotment letter no. F.22 (3)10/IL/1429 dated 27/7/12 & no. F.22 (3)2010/IL/1581 dated 05/08/14 for development of Hospital & Academic zone and Residential zone. It shall be developed with an objective to provide best medical care to troops and families of forces like CRPF, BSF, CISF, ITBP, SSB, NSG and Assam Rifles as well as to Central Police Organizations which function under the Union Home Ministry. The project will be located at Latitude 28°28'28.61" N and longitude 77°12'54.83" E. The total plot area is 2,08,009.30sqm. Out of which, 17.75 acres of the project site falls under southern ridge/geo- morphological ridge. It is proposed that no construction will be done on 17.75 acres. **Cost** of the project is Rs. 1071 Cr. The project will comprise of Super Speciality R & R

Hospital (800 bedded), Academic zone, Residential zone (residential campus + Hostels for doctors, nurses, nursing & paramedical hostel), Auditorium, utility block and religious shrine. FAR area will be 333400 sqm and total construction/ built up area will be 372504.44 sqm. Maximum height of the building will be 51m. Building configuration of the project is as given below:

No of stories & Level (Residential Zone)		
Block No.	**No of Storey**	**Maximum Ht. Of Tower**
Block-B1	**G+14**	**47.08 Mt.**
Block-B2	**G+14**	**47.08 Mt.**
Block – B3	**G+14**	**47.08 Mt.**
Block – B4	**G+14**	**47.08 Mt.**
Block – B5	**G/S+14**	**47.08 Mt.**
Block – B6	**G/S+13**	**45.85 Mt.**
Block – B7	**G/S+14**	**47.08 Mt.**
Block – B8	**G+13**	**45.85 Mt.**
Block – B9	**G/S+14**	**51.00 Mt.**
Block – B10	**G/S+14**	**51.00 Mt.**
Block – B11	**G/S+13**	**47.80 Mt.**
No. of Stories & Levels (Hospital & Academic Zone)		
Block No.	**No of Storey**	**Maximum Ht. Of Tower**
Block-B12	**G/S+14**	**51.00 Mt.**
Block-B13	**G+9**	**36.40 Mt.**
Block –B14	**G**	**20 Mt.**
Block – B15	**G+7**	**40.00 Mt.**
Block-B16	**G+10**	**50.50 Mt.**
Block-B17	**G+2**	**12.00 Mt.**
Block-B18	**G**	**9.00 Mt.**
Block-B19	**G**	**7.00 Mt.**
Block-B20	**G**	**7.00 Mt.**
Block-B21	**G**	**7.0 t.**

Adequate parking provision shall be provided in the project will be 6684 ECS shall be provided in basement, stilt, surface and Multi-Level Stack Parking.It is reported that Asola Wildlife Sanctuary is at 0.2 km N, E , S (around the project).

During the construction of the proposed project, the services required like water supply and sewage facilities shall be arranged on a temporary basis from STP treated water supplied through authorized tankers and the same will be maintained without any adverse impact on the environment. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided for labour force.

During operation phase, total water requirement for proposed complex shall be 2199 KLD. Out of which, fresh water requirement from Ground water source will be 1031 m3/day and remaining water requirement (1168 m3/day) will be met from recycled/treated effluent. Water shall be used mainly for domestic, flushing, Gardening, Cooling, Lab & OT, & miscellaneous purposes. Total quantity of wastewater generation shall be 1380 KLD (1236 from domestic uses & 144 KLD from Lab & OT). The 1236 KLD of generated sewage shall be treated in STP of 1800 KLD (2 modules of 900 KLD each) and 144 KLD from Lab & OT shall be treated in ETP of 175 KLD. The treated water generation from STP will be 1211 KLD out of which 1168 KLD shall be reused for flushing, Cooling, gardening and misc. purposes and excess 43 KLD shall be discharged to sewer. The treated water generation from ETP will be 130 KLD which will be discharged to the sewer line.

About 4455 Kg/ day solid waste will be generated in the project. The biodegradable waste (3118 Kg/ day) will be treated in Organic waste convertor and the recyclable waste generated

	(1337 Kg/ day) will be handed over to authorized local vendor/recycler. Bio-medical waste 230 kg/day will be generated from the complex. **Power requirement:** The total power requirement during construction phase will be met by obtaining temporary connection from BSES and for backup, DG set will be kept of 125 KVA and total power requirement during operation phase will be 14162.3 KW and will be met from BSES. D.G. sets of capacity of 4 x 1010 KVA, 6 x 750 KVA and 2 x 500 KVA for power back up is proposed. **RWH:** Rainwater of buildings will be collected in 5 RWH pits of dia. 6.7 m & depth 7.0 m for recharging the ground water. Energy saving measures will be provided such as insulated walls with cavity, solar PV generation of 1 MW, LED lighting, energy efficient glass and compliance of ECBC norms. **Employment potential:**Labourers during construction phase and about 2700 personnel as staff during operation phase. **Benefits of the project**: The benefits of the project are: • This Institute comprising of 800 bedded (500 General Speciality & 300). Super speciality hospital will have State of the Art features and will provide world class health care facilities to Central Armed Police Forces of the nation. It has significant importance as it is the first of its kind to be established for Central Armed Police Forces who urgently need the treatment in case of casualties often happening with forces. • OPD & emergency will be available for general public also. • Hospital will cater around 50 lakh Central Armed Police Forces personnel & their families. • Medical college, Nurses College & School of Paramedics will be for general public also. • The Hospital will provide employment to labourers during construction phase and employment to personnel working in the hospital during operation phase. • The Hospital will also enhance the infrastructure of the area. • The Hospital will have its own modern residential campus & hostel for students, doctors and its health workforce. After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects Proponents shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) As proposed, no construction shall be done on 17.75 acres land of southern ridge/geo- morphological ridge. (iii) Prior clearances from ridge management board, Government of Delhi shall be obtained for 17.75 acres land of southern ridge/geo- morphological ridge. (iv) Prior clearance from NBWL shall be obtained in respect of Ashola Wild life sanctuary.

	(v)	Construction site should be adequately barricaded before the construction begins.
	(vi)	The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code.
	(vii)	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.
	(viii)	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.
	(ix)	Bio-medical waste shall be managed as per the latest Bio-medical waste (management and handling) rules, 2016. .
	(x)	Radioactive waste shall be handled, stored and managed as per the guidelines of Atomic Energy Regulatory Board.
	(xi)	Sewage shall be treated in the STP based on MBBR technology (with tertiary treatment Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. As proposed, wastewater from laboratory and operation theatre will be treated in the ETP of 175 KLD.
	(xii)	As proposed, 5 RWH pits of dia. 6.7 m & depth 7.0 m for artificial ground water recharge shall be installed as per CGWB guidelines.
	(xiii)	Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 200 sqm. of area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from project site will be sent to Municipal dumping site.
	(xiv)	Solar based electric power shall be provided to each flat for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.
	(xv)	A First Aid Room will be provided in the project both during construction and operations of the project.
	(xvi)	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
	(xvii)	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 sites with the approval of competent authority.
	(xviii)	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards.
	(xix)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
	(xx)	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
	(xxi)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State

	Pollution Control Board. (xxii) 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 standards be operated only during non-peak hours. (xxiii) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xxiv) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxv) As proposed, no ground water shall be used during construction / operation phase of the project. (xxvi) The approval of the Competent Authority shall be obtained for structural safety of building s due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from ground water source shall not exceed 1031 m^3/day. Prior permission shall be obtained CGWA/SGWA for ground water drawl. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent water would be discharged through storm water drains. (vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. (viii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (ix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be

properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

(x) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.

13.2.12. **Modernization of existing facility and addition of new facilities entailing capacity at Vishakhapatnam Port by M /s Vishakhapatnam Port Trust- Amendment in Environmental Clearance – [IA/AP/MIS/60432/2016][F.No.11-93/2012 IA-III]**

During the meeting, the project proponent made a presentation and provided the following information to the Committee:-

(i) Earlier, the Environmental and CRZ Clearance was granted to the project vide No.11-93/2012-IA III dated 25th May, 2016.

(ii) **Proposed Modernization Projects at VPT are:**

PROJECT :1

- Up-gradation of Existing Facility and creation of new facility at VPT for Iron ore handling on DBFOT basis (OHC & WQ-I) with a project cost of Rs.845.45 crores

PROJECT :2

- Development of West Quay North (WQ-7 & WQ-8) berth with mechanized handling facilities for handling dry bulk cargoes with a project cost of Rs.221.14 crores.

PROJECT :3

- Extension of Existing Container Terminal in the Outer Harbour of Visakhapatnam Port on DBFOT basis with a project cost of Rs.633.11 crores.

(iii) The present proposal is for amendment in the said Environmental and CRZ Clearance dated 25th May, 2016.

(iv) The total cost of the projects reflected in the Environmental and CRZ Clearance dated 25th May, 2016 is Rs. 845 crores which is the cost of only a single project i.e. the Up-gradation of Existing Facility and creation of new facility at VPT for Iron ore handling on DBFOT basis (OHC & WQ-I).

(v) Therefore in this regard PP has requested to include the project wise costs of all the three projects separately as below:

S.N.	Name of the project	Project Cost in Crores
1	Up-gradation of Existing Facility and creation of new facility at VPT for Iron ore handling on DBFOT basis	Rs . 845.45
2	Development of West Quay North (WQ-7 & WQ-8) berth with mechanized handling facilities for handling bulk cargoes on DBFOT basis	Rs. 221.14
3	Extension of Existing Container Terminal in the Outer Harbour of Visakhapatnam Port on DBFOT basis	Rs. 633.11

After detailed deliberation, the Committee recommended the proposal for aforesaid corrections.

13.2.13. **Environmental and CRZ Clearance for the project(i) development of East quay-IA(EQ-1A)berth on south side of EQ-1(ii)development of East quay-1(EQ-1)by replacing the existing EQ-1 berth and part of EQ by M /s Vishakhapatnam Port Trust - Amendment in Environmental and CRZ Clearance [IA/AP/MIS/21758/1910][F.No.11-33/2010-IA.III]**

During the meeting, the project proponent made a presentation and provided the following information to the Committee:-

(i) The project was granted Environmental and CRZ Clearance vide letter No.11-33/2010-IA-III dated 6th June, 2011 for the project (i) development of East quay-IA(EQ-1A)berth on south side of EQ-1; (ii) development of East quay-1(EQ-1)by replacing the existing EQ-1 berth and part of EQ in Vishakhapatnam Port (Andhra Pradesh) in favour of M /s Vishakhapatnam Port Trust.

(ii) The present proposal is for amendment in the above Environmental and CRZ Clearance. As per Special Condition No. 7(xii) in Environmental Clearance, it was indicated as "there shall be no transport of coal/ cargo through roads". The Concessionaire of the subject project M/s Adani Vizag coal Terminal Pvt. Ltd., has informed VPT that there are few customers in the vicinity of Port who do not have railway siding for delivery of the cargo for their use and as such requested VPT to recommend to MoEF for amendment to condition No. 7(xii) to permit / allow the cargo through road by truck movement for specific quantity to cater to the need of customers who do not have railway siding.

(iii) The Andhra Pradesh Pollution Control Board vide their Renewal of Consent & Authorization Order has since renewed the CFO upto 30.11.2020. As per the above order vide item No.(14) (e) under General conditions which states as ***'M/s. AVCTPL shall apply to MoEF for amendment of EC issued vide order dt.06.60.2011 with respect to transportation of coat/ cargo through road***.

(iv) In view of the above, the project proponent requested to consider the above for the amendment of the Environmental and CRZ Clearance dated 6th June, 2011 for condition No (xii) of 7 as stated below:

Env. Condition No.	**Environmental and CRZ Clearance condition as accorded**	**Proposed for amendment**
(xii) of 7	There shall be no transport of coal/ cargo through roads"	There shall be transport of coal/ cargo through roads for 10% of terminal capacity i.e., 0.641 MMTPA.

After detailed deliberation, the Committee recommended the proposal for amendment in the existing EC & CRZ clearance subject to satisfactory implementation of all air pollution control measures while transporting the cargo through road.

13.2.14. **Development of Dholera Greenfield International Airport' in Village Navagam of District Ahmedabad (Gujarat) by Airport Authority of India – Amendment in Environmental Clearance – [IA/GJ/MIS/60554/2015][F.No.10-85/2011-IA.III]**

	During the meeting, the project proponent made a presentation and provided the following information to the Committee:- (i) The project was granted Environmental Clearance vide letter No.10-85/2011-IA.III dated 27th November, 2015. (ii) The present proposal is for amendment in the said EC. The following two amendments in Environmental Clearance for Dholera Greenfield International Airport are requested: • Survey number of same site as 101p (Instead of 100p) • Name Taluka for same site as Dholera Taluka (instead of Tehsil Dhanduka). (iii) In the Environmental Clearance dated 27th November, 2015, Survey number of site of Dholera Greenfield International Airport is mention 100 paiky in Navagam Village, Tehsil Dhanduka in Ahmadabad District, based on information provided in Form 1 and TOR. (iv) Initially District Land Measurement Services, Govt of Gujarat, informed that Survey Number for land demarcated for Proposed Dholera Airport at Navagam Village is 100 paiky. Hence, in Form 1, Survey Number 100 paiky was mentioned. (v) Base on final site demarcation & measurement of land of proposed Dholera Airport site by office of District Inspector Land Records AhemdabadGoG, they certified Survey Number of the site is 101 p (instead of 100 p). Both Survey numbers 100 and 101 are adjacent government land. (vi) As per the Government of Gujarat, Gazette Notification 09/09/2013, Schedule C, Dholera Taluka was created and Navagam Village is now comes under newly Dholera Taluka (instead of Tehsil Dhanduka). After detailed deliberation, the Committee recommended the proposal for amendment in the existing EC
13.2.15.	**Construction of 13th to 16th Cargo beth at Kandlain Gujarat by M/s Kandla Port Trust (KPT) - Amendment in Environmental and CRZ Clearance[IA/GJ/MIS/61521/2008] [F.No.11-70/2006-IA-III]** During the meeting, the project proponent made a presentation and provided the following information to the Committee:- (i) The MoEF granted Environmental and CRZ Clearance to the Kandla Port Trust vide their letter No.11-70/2006-IA-III dated 1st October, 2008 for Construction of 13th to 16th Cargo berth at Kandla in Gujarat. Total 4berths (Each berth 300mx55m) and land requirement is 102.17 ha. MoEF&CC vide letter no 11/70/2006 IA III dated 7.02.2014 has already extended the validity of the environmental clearance letter till 30.09.2018. (ii) The present project is for amendment in the above Environmental and CRZ Clearance. The amendment in 16th berth by increasing in length by 50m, additional backup area 3.6 ha and proposed capacity 16th Berth will be 4.50MMTPA. (iii) **Cost of the Project:** Revised cost of cargo berth No.16 will be Rs.278.00 Crores. (iv) **Whether the project is in critically polluted area:** No. (v) **SCZMA Recommendations**: The Gujarat Coastal Zone Management Authority (GCZMA) has recommended the project vide their letter No.ENV-10-2006-138-P dated 14th February, 2008 for 13th to 16th cargo berth. (vi) **Forest land** : NA. (vii) **Eco-sensitive area**: NA. (viii) **Water bodies:** No stream and river crossing involved in the project. (ix) **Green belt development:**KPT has endeavoured in maintaining eco-balance by way of tree plantation in and around port area. Extensive plantation is carried out every year. The survival rate of plants is very low due to saline soil and adverse weather conditions. Ongoing efforts are taken to increase the area under plantation. Additionally, green belt

	development is undertaken at, roadside and near residential and office buildings at Kandla, Gandhidham town and surrounding villages. (x) **Reclamation:** Reclamation is required for additional backup area i.e. 3.6 ha. PP informed that KPT planned to modify the dimensions of 16th cargo berth by increasing the length of cargo berth no 16 from 300m to 350 m with additional back up area 3.6 Ha and capacity 4.5 MMTPA. PP informed that handling capacity of cargo will remain same. Now, PP has requested for amendment in EC and CRZ clearance letter dated 07.01.2014. In view of the above, the Committee suggested them to submit SCZMA recommendation for the proposed modification in the berth dimension. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.2.16.	**Construction of Shipping building facility at Pipalav Port - Amendment in Environmental Clearance [IA/GJ/MIS/20077/2009][F.No.11-60/2008-IA.III]** *The Committee deferred the project as the project proponent did not attend the meeting.*
13.2.17.	**Redevelopment of "SagarVaibhav Co-Op Housing Society Ltd." Plot bearing CTS no. 51 of Village Mandapeshwar, Dahisar (West), Opposite Mary Immaculate Girls School, LaxmanMhatre Road, Dahisar (West), Tehsil Borivali, District Mumbai Suburban, Mumbai by M/s Kolte-Patil Developers Ltd. -Reconsideration for Environmental Clearance - [F.No.21-31/2016-IA-III]** Project was considered by the EAC in its 11th meeting held on 24-26 November, 2016 wherein the Committee sought some additional information. Now, PP vide letter dated 3.1.2017 has submitted addl. Information. Copy of addl. Information is available on the website. During presentation, PP informed that space earmarked for solid waste management is 80 m^2. After detailed deliberations, the Committee found additional information adequate and recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects Proponents shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) Construction site should be adequately barricaded before the construction begins. (iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code.

	(iv)	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.
	(v)	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.
	(vi)	Sewage shall be treated in the STP based on MBBR (with tertiary treatment preferably Ultra filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling.
	(vii)	As proposed, rooftop rainwater of buildings will be collected in 3 Nos. RWH tanks of total 40 KL capacity for harvesting after filtration.
	(viii)	Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 80sqm.of area shall be provided for solid waste management within the premises which will include area for segregation, composting.The inert waste from group housing project will be sent to dumping site at MCGM.
	(ix)	Solar based electric power shall be provided to each flat for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.
	(x)	A First Aid Room will be provided in the project both during construction and operations of the project.
	(xi)	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
	(xii)	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 sites with the approval of competent authority.
	(xiii)	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards.
	(xiv)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
	(xv)	During construction phase, total water requirement is expected to be 12 KLD for workers and 10-20 KLD for construction activity which will be met by M.C.G.M. and tanker respectively. During construction phase the waste water will be disposed to existing municipal sewer line. Temporary sanitary toilets will be provided during peak labor force.
	(xvi)	As proposed, no ground water shall be used during construction / operation phase of the project.
	(xvii)	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
	(xviii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
	(xix)	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 standards be operated only during non-peak hours.

	(xx) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xxi) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxii) As proposed, no ground water shall be used during construction / operation phase of the project. (xxiii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from MCGM water supply shall not exceed 95 m^3/day. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent water would be discharged through drains. (vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (viii) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. **(ix)** The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise. Area earmarked for greenbelt is 1024 m^2.
13.2.18.	**Residential and commercial development at Delta-2 at Plot No. -2, Sector- 8, Ulwe, Navi Mumbai, District: Raigad, Maharashtra by M/s. Midtown Holding Leasing and Properties Pvt. Ltd -Reconsideration for Environmental Clearance - [F.No.21-41/2016-IA-III]** *As the project is same as item No. 13.3.20, the project has been considered as item*

	No. 13.3.20.
13.2.19.	**Residential Development at Bhiwandi, Thane in Maharashtra by M/s. Tulip Land & Developers Pvt. Ltd - Reconsideration of Environmental Clearance - [F.No.21-38/2016-IA-III]** Project was considered by the EAC in its 11th meeting held on 24-26 November, 2016 wherein the Committee sought some additional information. Now, PP vide letter dated 10.1.2017 has submitted addl. Information. Copy of addl. Information is available on the website.. After detailed deliberations, the Committee found additional information adequate and recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects Proponents shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) Construction site should be adequately barricaded before the construction begins. (iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code. (iv) 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. (v) 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. (vi) Sewage shall be treated in the STP based on MBBR (with tertiary treatment preferably Ultra filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. (vii) As proposed, rooftop rainwater of buildings will be collected in 11Nos. RWH tanks of total 205 KL capacity for harvesting after filtration. (viii) Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 220 sqm. of area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site at MCGM. (ix) Solar based electric power shall be provided to each flat for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power. (x) A First Aid Room will be provided in the project both during construction and

	operations of the project. (xi) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site. (xii) 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 sites with the approval of competent authority. (xiii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards. (xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred. (xv) During construction phase, total water requirement is expected to be 12 KLD for workers and 20-30 KLD for construction activity which will be met by M.C.G.M. and tanker respectively. During construction phase the waste water will be disposed to existing municipal sewer line. Temporary sanitary toilets will be provided during peak labor force. (xvi) As proposed, no ground water shall be used during construction / operation phase of the project. (xvii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. (xviii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. (xix) 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 standards be operated only during non-peak hours. (xx) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xxi) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxii) As proposed, no ground water shall be used during construction / operation phase of the project. (xxiii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from BNCMC water supply shall not exceed 646 m^3/day.

	(iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent water would be discharged through drains. (vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (viii) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. **(ix)** The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.2.20.	**Expansion of Residential & Commercial Project "DSK VISHWA" at, Kirkitwadi, Dhayari, Pune, Maharashtra by M/s D. S. Kulkarni Developers Pvt. Ltd. –ToR-[IA/MH/NCP/61211/2016] [F.No.21-11/2017-IA-III]** The project authorities gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP report.Proposed project falls under item no. 8 (b) i.e. Township and area development projects of the schedule of the EIA Notification, 2006. As per amended notification dated 9.12.2016, covering an built up area more than 3,00,000 m^2, proposal is categorized as Category 'A' and appraised by EAC. M/s D. S. Kulkarni Developers Pvt. Ltd. has proposed forexpansion of residential & commercial project "DSK VISHWA" atGut No. 83/B/2, 85,86/1,87, 88,89,90,92/1,99,100, 101, 102, 103, 104,105 &106 At Kirkitwadi& S.No.122/2, 126/1(P), 126/2/1(P), 126/3To10(P), 126/11/1(P), 126/11/2, 126/12To16, 126/2/3 & 4, 125/01 To 04, 08/58(P), 125/6/1, 124/3, 14/4 of DhayariS.No. 124/2, 124/6, 124/7/1, 124/7/2,124/8,124/15,186, 187,188 Kirkitwadi, Dhayari, Pune Maharashtra. The project consists of Residential + Commercial + Club House development. PP informed that environment clearance letter dated 20.10.2011 has been obtained from SEIAA for the existing building construction project. Plot area will be increased from 3,73,754.00m^2 to 4,13,345.00 m^2 and built –up area will be increased from 413820.9 m^2 to 604188.3 m^2 after expansion. The total water requirement will be 814.955 KLD (Domestic: 498.996 KLD, Flushing: 315.959 KLD, Gardening: 225 KLD) which will be source by PMC, Gram Panchayat Kirkitwadi. The solid wastes generated will be segregated into organic and inorganic components and collected in separate bins. The organic biodegradable wastes (waste vegetables, foods etc.) will be transferred into a designated solid waste collection point for disposal by municipal authority.

Solid Waste Generation	Total solid waste (Kg)	60% wet solid waste (Kg)	40% dry solid waste (Kg)
Residential	13283.5	9098.5	4185
Commercial	1031.27	618.8	412.5

Parking facilities: Parking as per DCR requirements will be provided. Adequate facility will be provided for the parking.

Parking	Existing	Proposed	Total
Car	2087	1285	3372
Scooter	5928	3238	9166
Cycles	8172	3238	11410

The power requirement will be 3.88 MW which will be sourced by MSEDC.Solar water system for Hot water and solar lighting for common areas of buildings and street light.

After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR*for preparation of EIA-EMP report:

i. Importance and benefits of the project.
ii. Present landuse of the proposed project site.
iii. Copy of approved building sanction plan.
iv. Status land acquisition.
v. Details of no. of floor alongwithbuiltup area to be constructed in each block to be furnished.
vi. Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished.
vii. Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway.
viii. Details of source of water supply alongwith permission to be submitted.
ix. Treatment scheme for sewage and its recycling mode.
x. Excess treated sewage disposal plan/scheme to be submitted.
xi. Prediction of ground level concentration of pollutants due to DG sets.
xii. Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy.
xiii. Details of rain water harvesting system to be furnished. Clarity on recharge pits, storage systems for rain water and use of appropriate filtration system for collected rain water to be detailed.
xiv. Calculation on sizing of solar water heating systems to be furnished.
xv. A backup arrangement of at least 50% solar powered systems connected to the grid and at least two solar powered lights and one solar powered fan in each flat
xvi. A management plan for excavation and dewatering to ensure compliance to the CGWA guidelines and regulation.
xvii. Solid waste management plan alongwith area earmarked for solid waste management scheme.
xviii. Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting.
xix. Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal.
xx. Layout plan indicating Greenbelt alongwith area earmarked to be provided.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Infrastrucure-2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

Tuesday, 24th January, 2017

13.3.1. **Proposed commercial construction Project at Survey No 88/A,91/2A,91/2B &92/5 & 6 at village -Achole, Dist. Palgarh, Maharashtra by M/s. Nitin Patil – Environmental Clearance-[IA/MH/NCP/60976/2016][F.No.21-83/2016-IA-III]**

M/s. Nitin Patil has proposed for construction of commercial building at survey no 88/A,91/2A,91/2B &92/5 & 6 atVillage-Achole, District Palgarh,Maharashtra. The project is located at Latitude 19º24'57.29"N and Longitude 72º49'02.70"E.PP informed that project proposal is pending with SEIAA, Maharashtra. The total plot area is 16940.00 sqm and the total built-up area is 31013.70 sqm. 4 Nos of building will be developed. The description of flats are School- 6051.41 sqm, Building No 1: 23 nos. of shops, Building no 2- 346 nos (Shops: 82 no's, Offices: 264 no's) and CFC 585.90 sqm. PP informed that office buildings will be reduced from 264 to 100 nos. The configuration of the building is as under:

School	G+7 floors	Height 29.40 m
Bldg 1commercial	G+2 floors	Height 11.40m
Bldg 2 (offices& shops)	B+G+7 floors	Height 30.10 m
CFC (community Hall)	G+2 (pt) floors	Height 11.55 m

It is reported that Tungareshwar Wildlife Sanctuary (8.89 Km) and ESZ of Sanjay Gandhi National Park (i.e. 8.8 Km) is located within 10 km distance. Bhayandarcreek(-9..5 km due SE) is located within 10 km distance of project.

Cost of the project is Rs.71.00 Crores. The total expected water requirement during construction phase is 10 KLD which will be sourced through Tanker Water. Soak pits and septic tanks will be provided for disposal of waste water during construction phase. 2 No. of toilet blocks as temporary sanitary toilets will be provided during peak labor force. During operation phase,the total water requirement will be 241 m^3/day during non monsoon season. Out of which fresh water requirement from VVCMC will be 53 m^3/day, from tanker supply will be 41 m^3/day, from recycled water of the proposed building will be m^3/day and recycled water from outside building i.e. VIVA Residency will be 69 m^3/day. Wastewater generation will be 113m^3/day and treated in the STP. Cooling tower make up requirement will be 134 m^3/day. No effluent will be discharged outside building premises. **Solid Waste Management:** Biodegradable waste will be 113 Kg/Day which will be processed in OWC. Non-biodegradable waste will be 255 Kg/Day which will be handed over to recyclers. Space earmarked for solid waste management is 33 m^2 for the building 1 & 2, CFC and 28 m^2 for school building. Total RG area/ green belt will be 2441.83sqm. (20.8 %) of which area earmarked for greenbelt is 1109.08 m^2. RG area is provided as per Development Control Regulations by VVCMC. **Power Requirement**: During construction phase10 KVA power will be required which will be outsourced by MSEDCL. PP informed that pp will provide 2 solar power lights for each unit as

	well as common area lighting. **Rain Water Harvesting:** Quantity of Rain Water is 53 cum/day and capacity of RWH Tanks proposed to be for harvesting after filtration will be 106 cum. **Parking Details:** For4 wheelers (according to local norms) requirement is 210 Nos. and for 2 wheelers (according to local norms) requirement is 391 Nos. Accordingly, same 225 Nos. for 4 wheelers and 391 Nos. for 2 wheelers are proposed to be provided. **Energy saving measures:** 22% power saving. After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects Proponents shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) Construction site should be adequately barricaded before the construction begins. (iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code. (iv) 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. (v) 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. (vi) Sewage shall be treated in the STP based on MBBR technology (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, cooling tower make up, horticulture & DG cooling. (vii) As proposed, 106 cum of RWH Tanks will be installed for harvesting after filtration as per CGWB guidelines. (viii) Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 33 m^2 of area for the building 1 & 2, CFC and 28 m^2 for school building shall be provided for solid waste management within the premises which will include area for segregation, composting.The inert waste from project will be sent to dumping site of Municipality. (ix) Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power. (x) A First Aid Room will be provided in the project both during construction and operations of the project. (xi) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site. (xii) 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

	sites with the approval of competent authority. (xiii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards. (xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred. (xv) As proposed, no ground water shall be used during construction / operation phase of the project. (xvi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. (xvii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. (xviii) 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 standards be operated only during non-peak hours. (xix) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xx) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxi) As proposed, no ground water shall be used during construction / operation phase of the project. (xxii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from VVCMC shall not exceed 53 m^3/day and from tanker supply shall not exceed 41 m^3/day. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent water should be discharged into storm water.

	(vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. (viii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (ix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. (x) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.3.2.	**Expansion of building (from 104810 Sq.m. to 131355.699 Sq.m) at Survey No. 4/2 (p), 14/4B (P), 16, 17(P), Village Vadgon, Budruk District Puna, Maharashtra by M/s Paranjape Scheme Construction Ltd- Environmental Clearance – [IA/MH/NCP/60602/2016][F.No.21-84/2016-IA-III]** M/s Paranjape Scheme Construction Ltd has proposed for expansion of building (from 104810 Sq.m. to 131355.699 Sq.m) at Survey No. 4/2 (p), 14/4B (P), 16, 17(P), Village Vadgon, Budruk District Puna, Maharashtra. SEIAA vide letter no SEAC-2011/CR.623/TC.2 dated 3rd November, 2011 has granted environmental clearance to M/s Paranjape Schemes (Construction) Ltd. for expansion residential project. Constructed area till date is 99,096.54 m^2. The total plot area is 54,362 m^2. FSI area is 58,092.16 m^2 and total construction area is 1,31,771.85 m^2. The project comprise of 12 Residential Buildings with 6 row house. Total 961 no. of tenements shall be developed. Maximum height of the building is 36.00 m. **Cost** of the project is Rs. 234 Cr. During construction phase, total water requirement is expected to be 100 CMD which will be met by tanker water. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force. During operational phase, total water demand of the project will be reduced from 676 m^3/day to 658 m^3/day after expansion. Out of which, fresh water requirement from Pune Municipal Corporation will be 434 m^3/day and remaining water requirement (219 m^3/day) will be met from treated wastewater. Wastewater generation will be 566 m^3/day and treated in STP of 2 x 300 CMD capacity. About 320 m3/day will be discharged in Municipal sewer lines. About 2419 kg/day solid waste will be generated in the project. The biodegradable waste (1451 kg/day) will be treated by mechanical composting and the non-biodegradable waste generated (967 kg/d) will be handed over to authorized contractors. The total power requirement during construction phase is 300kVA and will be met from MSEDCL and Total power requirement during operation phase is 4.42 MW and will be met from MSEDCL. Rooftop rainwater of buildings will be recharged in ground through 30 nos of recharge pits. **Parking facility** for 657 four wheelers, 2,039 two wheelers and 1,719 cycles are proposed to be provided against the requirement of 657 four wheelers, 2,039 two wheelers and 1,719 cycles respectively (as per local norms). After detailed deliberation, the Committee sought following additional information: **(i)** Certified compliance report issued by the Regional Office, Nagpur on the existing

environmental conditions stipulated in environmental clearance.

(ii) Give details of the past history of the project related to submission of application at the SEIAA Maharashtra.

(iii) Respond to the comments made by the SEAC/SEIAA during the presentations at Maharashtra, based on minutes of SEAC/SEIAA meetings.

(iv) Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016.

(v) Copy of approved Sanction plan. Approval of the project from High Rise Building Committee of Maharashtra.

(vi) Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished.

(vii) Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway.

(viii) Details of source of water supply alongwith permission to be submitted.

(ix) Excess treated sewage disposal plan/scheme to be submitted.

(x) Prediction of ground level concentration of emissions from stack due to DG sets.

(xi) Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy.

(xii) Calculation on sizing of solar water heating systems to be furnished.

(xiii) At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid.

(xiv) Solid waste management plan alongwith area earmarked for solid waste management scheme.

(xv) Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting.

(xvi) Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal

(xvii) Layout plan indicating Greenbelt alongwith area earmarked to be provided.

The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.

13.3.3.

Viva Residency" - Proposed Residential & Commercial project at Plot Bearing S.No.86 B, H.No 9 &H.No. 10 of Village Achole, Taluka, Vasai, Dist- Palghar, Maharashtra by M/s Deepak H Thakur- Environmental Clearance – [IA/MH/NCP/60984/2016][F.No.21-85/2016-IA-III]

M/s Deepak H Thakur has proposed for development of Residential & Commercial project at plot bearing S.No.86 B, H.No 9 &H.No. 10 of Village Achole, Taluka, Vasai, Dist- Palghar, Maharashtra. PP informed that the project was appraised by SEAC-II, Maharashtra in their 49th SEAC-II meeting dated 25-08-2016 as an Item No.-58 & is recommended for grant of EC to SEIAA.

The total plot area is 11,224.10 sqm and the total built up area is 48014.36 sqm. Cost of the project is Rs.100 Crores. The total nos. of flats proposed to be developed are 234, 25 nos of offices, 11 nos. of shops will be provided. The maximum height of the buildings will be 69.95 m. The configurations of the project is as under:-

Buildings	Configuration	Height
A to C	Ground floor shopping + 1st	69.95 m

	podium+ 2nd podium + 3rd Level (R.G)Podium + 4th to 22nd upper habitable Floors	

It is reported that Tungareshwar Wildlife Sanctuary (8.89 Km) and ESZ of Sanjay Gandhi National Park (i.e. 8.8 Km) is located within 10 km distance. Bhayandarcreek(-9..5 km due SE) is located within 10 km distance of project.

The total expected water requirement during construction phase will be 15 KLD which will be Outsourced through Tanker. Septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force. The total water demand during operation phase will be 177 KLD. Out of which, fresh water requirement from VVMC water supply will be 108 m^3/day and remaining water requirement 69m^3/daywill be met from recycled water/treated water. Wastewater generation will be 153 m^3/day and treated in the STP. Treated water will be used for (59 KLD For flushing and 84 KLD for cooling tower of Viva Mall near project site).

Biodegradable waste generation will be 316Kg/Day, which will be processed and treated in OWC to convert into organic manure. Non-biodegradable waste will be 258 Kg/Day which will be handed over to authorized local vendor. Space earmarked for solid waste management is 136 m^2. Quantity of Rain Water is 46 cum and Capacity of RWH Tanks for harvesting after filtration will be 92 cum. Area earmarked for greenbelt is 1159 m^2 **and area earmarked for RG is 1505.11 m^2. Parking Details:** For 4 wheelers 242 Nos and for 2 wheelers 216 Nos. will be provided. **Power Requirement:** During construction phase 100 kVA which will be outsourced through MSEDCL. DG set (200 KVA) will be installed.

After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance:

I. Construction Phase

(i) The Projects Proponents shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.

(ii) Construction site should be adequately barricaded before the construction begins.

(iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code.

(iv) 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.

(v) 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.

(vi) Sewage shall be treated in the STP based on MBBR technology (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, cooling tower make up, horticulture & DG cooling.

	(vii)	As proposed, 92 cum of RWH Tanks will be installed for harvesting after filtration as per CGWB guidelines.
	(viii)	Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 136 m^2 of area for the proposed building shall be provided for solid waste management within the premises which will include area for segregation, composting.The inert waste from project will be sent to dumping site of Municipality.
	(ix)	Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.
	(x)	A First Aid Room will be provided in the project both during construction and operations of the project.
	(xi)	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
	(xii)	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 sites with the approval of competent authority.
	(xiii)	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards.
	(xiv)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
	(xv)	As proposed, no ground water shall be used during construction / operation phase of the project.
	(xvi)	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
	(xvii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
	(xviii)	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 standards be operated only during non-peak hours.
	(xix)	Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
	(xx)	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction.
	(xxi)	As proposed, no ground water shall be used during construction / operation phase of the project.
	(xxii)	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.

	II Operation Phase (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from VVCMC shall not exceed 108m^3/day. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent water should be discharged into storm water drain. (vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. (viii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (ix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. (x) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.3.4.	**Proposed Reconstruction redevelopment of J K Project at CTS No. 1552, Girgau8m division Gamdevi, HarishchandraGoregaonkar Road, Mumbai by M/s Floreat Investments Private Limited - [IA/MH/NCP/60409/2016][F.No.21-86/2016-IA-III]** *The Committee deferred the project as the project proponent did not attend the meeting.*
13.3.5.	**Expansion of redevelopment Project at Plot No. 18 to 21 & 23 to 26 CTS No. 195 (pt) D. N. Nagar, MHADA layout, Andheri (West) Mumbai, Maharashtra by M/s. Axayraj Build Well Pvt. Ltd.- Environmental Clearance -[F.No.21-87/2016-IA-III][IA/MH/NCP/60145/2016]** M/s. Axayraj Build Well Pvt. Ltd. has proposed for expansion (built up area from 56,041.69 sqm to 65,745.64 sqm) of redevelopment Project at Plot No. 18 to 21 & 23 to 26 CTS No. 195 (pt) D. N. Nagar, MHADA layout, Andheri (West) Mumbai, Maharashtra. The project was earlier granted Environmental Clearance vide letter No. 21-260/2008-IA-III received dated 6th

May, 2011 for construction area 56,041.69 sqm. However, 41755.82 sqm has been constructed on site as per Environmental Clearance obtained dated 6th May, 2011.

The total plot area is10,278.39 sqm andtotal built up area is 65,745.64 sqm after expansion. The total flats proposed to be developed are Residential -355 Nos, Shops - 224 nos, Offices - 542 Nos. & Restaurant - 3 Nos. The maximum height of the buildings will be 53.15 m. the building configuration is as follows:

Building configuration			Height
Ground + 1st to 3rd Commercial floor + 4th to 5th (pt) Podia - plus (residential above)	A,B,C,D,E,F & H	5th to 14th floor up	53.15 m
	G1, G2, I1, I2	4th to 15th floor up	

It is reported that Eco Sensitive Zone of Sanjay Gandhi national park (3.1 Km away) is located within 10 km distance. **Cost of the project is** Rs.89.97 Crores. Total water requirement will be increased from 360 m^3/day to 413 m^3/day after expansion. Total wastewater generation will be increased from 265 to 367 m3/day after expansion. The capacity of STP will be 380 KLD. 150 KLD excess treated water will be drained to municipal drain. 813 Kg/Day Biodegradable waste will be processed and treated in OWC to convert into organic manure**.** 1010 Kg/Day Non-biodegradable waste which will be handed over to authorized local vendor. **The quantity of rainwater is** 36.7 cum and the RWH tanks having capacity of 80 cum for harvesting after filtration will be provided. Minimum Parking capacity for 4 wheeler required as per Local Norm is 439 nos and same will be provided.

After detailed deliberation, the Committee sought following additional information:

(i) Certified compliance report issued by the Regional Office, Nagpur on the existing environmental conditions stipulated in environmental clearance.

(ii) Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016.

(iii) Copy of approved Sanction plan. Approval of the project from High Rise Building Committee of Maharashtra.

(iv) Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished.

(v) Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway.

(vi) Water balance to be rechecked and submitted.

(vii) Excess treated sewage disposal plan/scheme to be submitted.

(viii) Prediction of ground level concentration of emissions from stack due to DG sets.

(ix) At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid.

(x) Solid waste management plan alongwith area earmarked for solid waste management scheme.

(xi) Action plan for disposal of construction and demolition waste to be submitted.

(xii) Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting.

(xiii) Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal

	(xiv) Increase the greenbelt area. Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.3.6.	**Proposed Slum Rehabilitation Project at CTS No. 4958 D, 4958 D/1 to 124 of village Kolekalyan, Santacruz (E), Mumbai, Maharashtra by M/s. Amrapali S.R.A. C.H.S. Ltd - Environmental Clearance [IA/MH/NCP/60992/2016][F.No.21-88/2016-IA-III]** M/s. Amrapali S.R.A. C.H.S. Ltd has proposed for development of Slum Rehabilitation Project at CTS No. 4958 D, 4958 D/1 to 124 of village Kolekalyan, Santacruz (E), Mumbai, Maharashtra. Slum Rehabilitation Authority vide letter no SRA/ENG/2547/HE/PVT/LOI dated 15th September, 2014 has issued LOI for proposed SR Scheme. The project will be located at Latitude 19° 4'20.157"N, and longitude72°51'45.240"E.The total plot area is 3881.60 sqmand total built up area is23120.923 sqm. Total 278 Flats and 2 shops shall be developed. The maximum height of the building is 44.4 m. **Cost** of the project is Rs 85.81 crore It is located within 10 km of Sanjay Gandhi National Park Eco Sensitive areas During construction phase, total water requirement is expected to be 10 - 20 KLD which will be met by tanker water. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labour force. During operational phase, total water demand of the project is expected to be 202 KLD. Out of which fresh water requirement is 129 KLD (Composite Building: 91 KLD and Sale Building: 38 KLD) which will be met by the Municipal Corporation of Greater Mumbai. Wastewater generated 171 KLD (Composite Building:122 KLD and Sale Building: 49 KLD) will be treated in 2 STPs of total capacity 190 KLD (Composite Building:135 KLD and Sale Building: 55 KLD**)** of treated wastewater will be recycled (68 KLD for flushing, 5 for gardening). About 81 KLD will be disposed in to municipaldrain. About 761kg/day solid waste will be generated in the project. The biodegradable waste (453 kg/day) will be processed in OWC and the non- biodegradablewaste generated (308 kg/day) will be handed over to local vendor. The total power requirement during construction phase is 142 kW and will be met from TATA power. The total connected load requirement during construction phase is 2227.4 KW (Composite Building: 1012.2 KW and Sale Building: 1215.2 KW) and will be met from Reliance/TATA/Local Electricity provider.1 D.G. set of 320 KVA and 1 D. G. set of 380 KVA will be providedfor power backup. Rooftop rainwater of buildings will be collected in 4 RWH pits. **Parking facility**: Parking facility for 136 no. of four wheelers and is proposed to be provided against the requirement of 140 no. (According to local norms). Proposed energy saving measures would save about 20% of power. After detailed deliberation, the Committee sought following additional information: **(i)** Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. **(ii)** Efforts shall be made to provide car parking to each flat. **(iii)** Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished.

	(iv) Details of RG area earmarked for the project. **(v)** Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. **(vi)** Water balance to be rechecked and submitted. **(vii)** Excess treated sewage disposal plan/scheme to be submitted. **(viii)** Prediction of ground level concentration of emissions from stack due to DG sets. **(ix)** At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid. **(x)** Solid waste management plan alongwith area earmarked for solid waste management scheme shall restimated. **(xi)** Action plan for disposal of construction and demolition waste to be submitted. **(xii)** Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting. **(xiii)** Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal **(xiv)** Increase the greenbelt area. Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.3.7.	**Proposed Residential cum commercial project at Plot bearing S. No. 131 H.No. 5 & 6 S. No. 133 H. No. 2,3 S. No. 139 H.No. 5, 15, 17/1 S.No. 140, H. No. 2/5 at Village Virar Taluka Vasai District Thane, Maharashtra by M/s Viva Shelter - Environmental Clearance –[F.No.21-89/2016-IA-III][IA/MH/NCP/60397/2016]** M/s Viva Shelter has proposed for development of Residential cum commercial project at Plot bearing S. No. 131 H.No. 5 & 6 S. No. 133 H. No. 2,3 S. No. 139 H.No. 5, 15, 17/1 S. No. 140, H. No. 2/5 at Village Virar Taluka Vasai District Thane, Maharashtra. It is reported that Vaitarna creek (4.6 Km), Ranal Talav (0.7 km) and Manvel Pad Lake (0.5 km) are located within 10 km distance. Project site is located adjacent to forest area. The project is located at 19°26'55.99"N Latitude and 72°49'32.37"E Longitude. The project site is located at 6 km from the boundary of Tungareshwar Wildlife Sanctuary protected area. The total plot area is 58,510 m^2. FSI area is 57,749.76 $m^2$and total construction area is 1,04,031.86 m^2. The project comprises of 9 Residential Buildings, 1 MHADA Building, 1,532 Flats, 11 Bungalows and 7 Row houses, 42 shops and 2 C.F.C.s shall be developed. Maximum height of the building is 65.10 m. configuration of the building is as given below:

BLDG NOS/TYPE	WINGS	BLDG CONFIGURATION	NO. OF FLATS/SHOPS	POPULATION (NOS)
RESIDENTIAL ZONE				
1	A, B & C	G+16	250	1250
2	A & B	ST+21	162	810
3	A ,B,C,D & E	G+16	342	1710
4	A ,B & C	G+16	218	1090
5	--	ST+16	62	310
6	A, B & C	ST+16	218	1090
7	B1(BUNGALOW)	G+1	1	5
8	B2(BUNGALOW)	G+1	1	5
9	--	G+7	14	70
C.F.C. 1	-	ST+2	--	119
SHOPS	--	--	42	126
GREEN ZONE				
1	--	ST+1	8	40
2	A,B,C & D	ST+4	112	560
BUNGALOW	1 to 11	G+1	11	55
ROW HOUSES	1 to 7	G+1	7	35
C.F.C. 2	--	ST+2	--	119
MHADA BUILDINGS	A,B,C,D,E,F & G	ST+4	144	720
Total				**8114**

(i) During construction phase, total water requirement is expected to be 100 KLD which will be met by tanker water. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.

(ii) During operational phase, total water demand of the project is expected to be 732 KLD and same will be met by fresh water from VVCMC (Municipal Water Supply) and recycled water. Wastewater generated (627 KLD) uses will be treated in STP of 700 KLD capacity. 170 KLD of treated wastewater will be recycled for flushing. About 450 KLD will be discharged in Municipal sewer lines.

(iii) About 3948 kg/d solid waste will be generated in the project. The biodegradable waste (2368 kg/d) will be processed in mechanical composting (Eco-biocompack) and the non-biodegradable waste generated (1580 kg/d) will be handed over to authorized local vendor.

(iv) The total power requirement during construction phase is 200 kVA and will be met from MSEDCL and Total power requirement during operation phase is 4 MW and will be met from MSEDCL.

(v) Rooftop rainwater of building will be collected in 6 RWH tank of total 400 m^3 capacity for harvesting after filtration.

(vi) Parking facility for 888 Nos. four wheelers are proposed to be provided against the requirement of 888 four wheelers (as per local norms) and 1598 two wheelers are proposed to be provided.

(vii) Proposed energy saving measures would save about 21.15 % of power.

After detailed deliberation, the Committee sought following additional information:

	(i) Landuse of the project site. **(ii)** Status project proposal in the SEIAA, Maharashtra. **(iii)** Distance of project site from the reserve forest to be submitted. **(iv)** Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. **(v)** Copy of approved Sanction plan. **(vi)** Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. **(vii)** Details of RG area earmarked for the project. **(viii)** Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. **(ix)** Water balance to be rechecked and submitted. **(x)** Excess treated sewage disposal plan/scheme to be submitted. **(xi)** Action plan to prevent the nearby water bodies from water pollution due to the proposed project. **(xii)** Prediction of ground level concentration of emissions from stack due to DG sets. **(xiii)** At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid. **(xiv)** Solid waste management plan alongwith area earmarked for solid waste management scheme shall restimated. **(xv)** Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting. **(xvi)** Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal **(xvii)** Increase the greenbelt area. Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.3.8.	**Amendment in development of commercial building at Plot bearing S.No. 169/1, Sector - I & II (part), Aundh, Pune (Maharashtra) by M/s Chitrali Properties Pvt Ltd - Environmental Clearance -[F.No.21-90/2016-IA-III][IA/MH/NCP/60444/2016]** M/s Chitrali Properties Pvt Ltd has proposed for modification in the configuration of commercial building at Plot bearing S. No. 169/1, Sector - I & II (part), Aundh, Pune (Maharashtra). The project was granted Environmental Clearance vide letter No. 21-366/2007-IA-III dated 07.12.2007 and the EC was revalidated up to 07.12.2017 by SEIAA on 24.09.2015. The Environment Clearance received in 2007 was for a total Built up Area (BUA) of 91,000 sqm. and proposed to have one building each in sector I and II Part i.e. Building A (Sector I) comprising of Mall, Multiplex and Hotel having total 18 Floors and Building B (Sector II) comprising of IT office and retail. Now, PP has proposed modifications in the project configuration of the building A (Part). So that built-up area has decreased from 91000 m2 to 76416 m^2 due to reduction in number of floors as per modified PMC approval. The change applies only to building A. The total plot area is 29,500 sqm, total FSI is 45,634 sqm, total Premium Paid Non-FSI is 30,782 sqm and total built up area will be 76,416 sqm. The project comprising of Sector I & II (part). Sector I has one

building named as Building A which comprises of Mall, Multiplex and proposed IT /offices. Sector II (part) has one building named as Building B comprising of IT office and retail. The maximum height of the **building A** considering total proposal upto 9th floor is 65.925 m. (Top of mumty level). The height of the **building A** as per the present PMC approved plan upto 4th floor is 33.925 m (Terrace level). The height upto mumty level for the same is 38.925m.

Details of proposed Building configuration vis – a- vis EC granted in 2007 is as given below:

As per EC granted in 2007	As per amendment sought	Remarks
Sector 1 Building A : 2 basements + Ground North + Ground South + 13 floors	T2 basements + Ground North + Ground South + HGF + 1st Floor +2nd Floor + **Third Floor (Part) + Service Floor + Fourth Floor (Two Floors for IT/Office use) Part Ground Floor South, Part Higher Ground Floor, Part First Floor & Part Second Floor at South Side of the building as proposed amendment in EC**	Change in Building A Configuration
Sector 2 (P): Building B (IT Building) 3 Basements + Ground + 7 Floors	Sector 2 (P) : Building B (IT Building) 3 Basement + Ground + 7 floors	No change
Height of building A = 66.32 m Building B = 32.10 m	Height of building A = 33.925 m Building B = 32.10 m	Decrease
Total water requirement 722 m3/day	462 m3/day	Decrease
Sewage generation 575 m3/day	300 m3/day	Decrease
STP capacity 480 m3/day	300 m3/day for building A and 80 m3/day for building B	Decrease
Solid Waste 200 kg/day	1320 Kg/ day	Increased
Greenbelt	6011 m^2	
Parking 850	1438	Increased
DG set 850 KVA	1438 KVA	Increased
Energy Requirement	15 MW	15 MW

Area already constructed area is 33152 m2 for Building A and 32394 m2 for Building B. Area pending for construction in Building A as per sanctioned plan is 10870 m^2.

P informed that 2 court cases are pending in the NGT against the project.

After detailed deliberation, the Committee sought following additional information:

(i) Certified compliance report issued by the Regional Office, Nagpur on the existing environmental conditions stipulated in environmental clearance..

(ii) Present status of NGT cases against the project. Submit the copy of latest NGT Orders.

(iii) Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016.

(iv) Copy of approved Sanction plan. Approval of the project from High Rise Building Committee of Maharashtra.

(v) Status project proposal in the SEIAA, Maharashtra.

(vi) Copy of approved Sanction plan.

(vii) Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished.

(viii) Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway.

(ix) Water balance to be submitted.

(x) Excess treated sewage disposal plan/scheme to be submitted.

(xi) Prediction of ground level concentration of emissions from stack due to DG sets.

(xii) Efforts shall be made to reduce the capacity of DG sets.

(xiii) At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid.

(xiv) Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal

(xv) Increase the greenbelt area. Layout plan indicating Greenbelt alongwith area earmarked to be provided.

The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.

13.3.9.

Residential Project (Proposed Slum Rehabilitation Scheme) at Plot Bearing C.T.C No. 123(Pt), 1835 (Pt), 116 (Pt), S.No. 14,14A of village Chembur, Kurla, Mumbai by Grace Urban Development Corporation-Environmental Clearance - [F.No.21-91/2016-IA-III] [IA/MH/NCP/61095/2016]

The Committee deferred the project as the project proponent did not attend the meeting.

13.3.10.

Proposed residential cum commercial building "Avaanti" at C.T.S. No. 431/195 & 431/196,F. P. No. 37/B1 + B2 at ShukarvarPeth,Tilak Road, Pune, Maharashtra by M/s. Olympia – Environmental Clearance –[F.No21-92/2016-IA-III][IA/MH/NCP/61233/2016]

M/s. Olympia has proposed for development of residential cum commercial building "Avaanti" at C.T.S. No. 431/195 & 431/196,F. P. No. 37/B1 + B2 at ShukarvarPeth, Tilak Road, Pune, Maharashtra. PP informed that case in not pending with SEIAA, Maharashtra. The project is located at Latitude 18°30'16.59"N and Longitude 73°51'14.35"E.The total plot area is 6,626.77 m^2. Out of which area earmarked for RG is 1258.11 m^2. The project will comprise of 02 Buildings with 48 Nos. of tenements, 8 shops and 13 offices. Total built-up area of 31876.05m^2. PP has proposed to increase the built-up area from 17123.4 m2 to 31876 m^2. The maximum height of the building is 87.57m. Building configuration is as given below :

Building	Configuration	Height	Component
1	Commercial + Residential (B + G + Mezzanine + 1st Floor + 2 +	82.57 m	Tenements 45; Shops-8, Offices- 13

	3rd Parking + Podium + 1-17 Residential Floors		
2	EWS Residential (Parking + 3 Floors)	16.5 m	Tenements 3

It is reported that Mutha River (1.5 km), Katraj lake (Zoo, 5.3 Km), Peshave Park Lake (0.35 Km), Jambhulwadi Lake (7.3 Km) and Khadakwasla Dam(11.24 km) are located within 15 km distance. **Cost** of the project is Rs. 173 crores.

During construction phase, total water requirement is expected to be 4KLD which will be met by water from Potable water tankers. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force. During operational phase, total water requirement for the project will be 65 m^3/day. Out of which fresh water requirement from Pune Municipal Corporation water supply will be 31 m3/day and remaining water requirement (34 m^3/day) will be met from recycled Water/treated water. Wastewater generation will be 47m^3/day and treated in STP of total 50m^3/day capacity. 42m^3/day of treated wastewater will be recycled (22 for flushing, 12 for gardening). About 8m^3/day will be disposed-off suitably.

About 220kg/day solid waste will be generated in the project. The biodegradable waste (113kg/day) will be processed in OWC and the non-biodegradable waste generated (107kg/day) will be handed over to PMC. Area earmarked for solid waste management is 50 m^2. The Committee suggested them that atleast 80 m^2 space shall be provided for soldi waste management. The total power requirement during construction phase is 25 KVA and will be met from MSEDCL and total power requirement during operation phase is 846kW and will be met from MSEDCL. Rooftop rainwater of buildings will be collected in RWH tanks of total. 75.85m^3 capacity for harvesting after filtration. 05 nos of recharge pits of size 2.5m x 2.5m x 2m (1m filter media) will be proposed. PP also confirmed that proposed site shall not used for car servicing. DG sets (315 KVA (2 Nos.) + 200 (KVA x 1) will be installed.

Parking facility for 250 Four wheelers and 395 two wheelers is proposed to be provided against the requirement of 250 and 395 respectively (according to local norms). The description of the parking is as under:

Building	Configuration	Required	Proposed
1	Commercial + Residential	250 Cars 395 Scooters 195 Cycles	250 Cars 395 Scooters 195 Cycles
2	EWS Residential	2 Cars 8 Scooters 8 Cycles	2 Cars 8 Scooters 8 Cycles

Floor wise Parking Nos. are as follows;

Sr. No.	FLOORS	Available Car park	Available Scooters	Available Cycle
1	Basement floor	46	13	0
2	Ground floor	102	0	195
3	Second floor	51	64	0
4	Third floor	51	84	0
5	Podium floor	0	234	0
Total Proposed Parking for MOEF		**250**	**395**	**195**
Total Required Parking as per		**250**	**395**	**195**

Norms			

After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance:

II. Construction Phase

(i) The Projects Proponents shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.

(ii) Construction site should be adequately barricaded before the construction begins.

(iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code.

(iv) 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.

(v) 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.

(vi) Sewage shall be treated in the STP (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling.

(vii) As proposed, rooftop rainwater of buildings will be collected in RWH tanks of total. 75.85m^3 capacity for harvesting after filtration. 05 nos of recharge pits of size 2.5m x 2.5m x 2m (1m filter media) shall be providedas per CGWB guidelines.

(viii) Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 80 m^2 of area for the proposed building shall be provided for solid waste management within the premises which will include area for segregation, composting.The inert waste from project will be sent to dumping site of Municipality.

(ix) Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.

(x) A First Aid Room will be provided in the project both during construction and operations of the project.

(xi) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.

(xii) 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 sites with the approval of competent authority.

(xiii) The diesel generator sets to be used during construction phase should be low

	sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards. (xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred. (xv) As proposed, no ground water shall be used during construction / operation phase of the project. (xvi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. (xvii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. (xviii) 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 standards be operated only during non-peak hours. (xix) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xx) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxi) As proposed, no ground water shall be used during construction / operation phase of the project. (xxii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (xi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (xii) Fresh water requirement from Pune Municipal Corporation Water Supplyshall not exceed 31 m^3/day. (xiii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (xiv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (xv) No sewage or untreated effluent water should be discharged into storm water drain. (xvi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016.

	(xvii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. (xviii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (xix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. (xx) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.3.11.	**Proposed SRA Project at plot bearing C.T.S No. 720, 723,728 Village Kandivali, District Mumbai, Maharashtra by M/s Triax Developers LLP – Environmental Clearance – [F.No.21-93/2016-IA-III] [IA/MH/NCP/61384/2016]** M/s Triax Developers LLP has proposed for development of SRA Project at plot bearing C.T.S No. 720, 723,728 Village Kandivali, District Mumbai, Maharashtra**.** The land is entirely reserved for rehabilitation & resettlement and is partly reserved for garden reservation. The total plot area is 10296.80 sqm, FSI area (including fungible is36990.21 sqm, Non FSI Area is24554.29 sqm and the total construction area will be 61544.5 sqm. Total nos. of flats proposed to be developed are 493 for Rehab, 328 for Sale and 12 nos for Sale shops. The maximum height of the buildings will be 69.90 m. The Project components is as under:-

Wings	**Configuration**	**Height**
Rehab Wing A	Gr/Stilt (parking) + 23 floors	69.90 m
Rehab Wing B	Gr/Stilt + 7 floors	24.50 m
Rehab Wing C	Gr/Stilt + 23 floors	69.90 m
Sale	Basement + Stilt (pit parking) +1 Parking Podiums & Amenities + 21 Residential Floors	69.95

Cost of the project is Rs.160 Crores.It is reported that Sanjay Gandhi national park (3.78 km due south East).The project falls outside the eco sensitive zone of Sanjay Gandhi national park as finalized on 05.12.2016 vide S.O. 3645 by MoEFCC.

The total water requirement 568 KLD which will be sourced through Municipal Corporation of Greater Mumbai (MCGM), water NOC awaited. The waste water quantity will be 470 KLD. The STP having capacity of 500 KLD in an area of 350 sqm is proposed. Recycled water will be 194 KLD (Flushing water requirement: 190 KLD and R.G water required: 4 KLD). 229 KLD water will be discharged to municipal drains. Septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.Biodegradable waste will be 1248 Kg/Day which will be treated in (organic waste converter)OWC and the manure will be used for landscaping. Non-biodegradable waste will be 858 Kg/Day which will be handed over to recyclers/vendors. PP informed that area earmarked for solid waste management is 120 m^2. During construction phase 100 KVA will be required which will be sourced by Reliance.Quantity of Rain Water will be 83 cum. and capacity of RWH Tanks for harvesting after filtration will be 166 cum.Energy will be conserved by energy efficient light fixtures, solar energy and energy efficient equipment.Total RG area on ground is 792.07 sqm (8%) provided as per the prevailing DCR requirements.**Parking facility** for 498 nos of 4

	Wheelers and 50 nos of 2 Wheelers will be provided. The Committee suggested them to explore the feasibility for providing 4 wheelers parking to each flat. After detailed deliberation, the Committee sought following additional information: **(i)** Landuse of the propose project site. **(ii)** Copy of the approval of proposed project from the concerned Government Agency/Authority. Copy of approved Sanction plan. Approval of the project from High Rise Building Committee of Maharashtra. **(iii)** Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. **(iv)** Status project proposal in the SEIAA, Maharashtra. **(v)** Explore the feasibility for providing 4 wheelers parking to each flat owner. **(vi)** Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. **(vii)** Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. **(viii)** Revised water balance to be submitted. **(ix)** Excess treated sewage disposal plan/scheme to be submitted. **(x)** Prediction of ground level concentration of emissions from stack due to DG sets. **(xi)** Efforts shall be made to reduce the capacity of DG sets. **(xii)** At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid. **(xiii)** Action plan for management of Construction and Demolition Waste to be generated from demolition of the existing building structures as per the latest rules/guidelines. **(xiv)** Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal **(xv)** Increase the greenbelt area. Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.3.12.	**Expansion of Residential, Retail, IT & Commercial project on plot bearing CTS. Nos. 117A, 117A/1, 117B &117 C Village Tungwa, Saki Vihar Road, Powai, Mumbai by M/s. Larsen & Toubro Realty Ltd. – Environmental Clearance reg. [IA/MH/NCP/61506/2017] [F.No.21-104/2016-IA-III]** (i) The project involves expansion of Residential, Retail, IT& Commercial project on plot bearing CTS. Nos. 117A, 117A/1, 117B &117 C Village Tungwa, Saki Vihar Road, Powai, Mumbai (Maharashtra) promoted by M/s. Larsen & Toubro Realty Ltd admeasuring 1,44,403.10 sqm as per Earlier Environmental Clearance dated 6th September, 2014. (ii) The project have Environmental Clearance for a construction area of 3,52,747.77sqm to construct 8 nos of Residential buildings and 2 nos of IT building. In accordance with Environmental Clearance received, the work of 4 nos of buildings is completed and OC has been granted for TC-III and building-T1, T2, T3.The work of remaining 6 buildings is in progress. (iii) On receipt of I to R dated 19th May, 2016 for the plot area of 46,060 sqm and inclusion of land portion of 2,276.40 sqm on the adjoining plot , the plot area has increased to 1,46,679.50 sqm resulting into increase in the construction potential. (iv) It is now proposed to have the expansion i.e.; vertical expansion in the existing buildings and construction of additional 8 Residential building and one Health and

	Welfare center in the added R zone. All the internal roads are minimum 9 m wide for easy fire engine movement. The maximum height of the buildings is within the permissible height granted by the Aviation Authority. (v) The project received its Terms of Reference (ToR) during the 47th SEAC-2 meeting held on 3rd June 2016 at Mumbai, Maharashtra. (vi) Construction is done and environmental settings are already provided as per earlier EC. The natural drainage pattern is utilized for aligning the drainage services. The overall infrastructure shall be further enhanced because 45.75 m wide Jogeshwari-Vikroli link Road is on the East side of the plot and 27 m wide Saki Vihar Road is on the West side which is abutting the site. Infrastructural facility and connectivity is well established around the plot area, Central Railway Station (Kanjurmarg) 4.8 Km ChatrapatiShivaji International Airport 6.0 km (Aerial Distance), Saki naka metro station-1.5 kms. The project site is abutting Saki Vihar road and JVLR. (vii) The project is located at Latitude 72°53'36.10" E and Longitude 19°07'23.66"N. (viii) The total plot area is 1,46,679.50sqm. The project includes 16 Nos. of Residential Buildings, 2 Nos. of IT buildings and Health and Welfare Centre. The total Nos. of flats will be 1863. The FSI area is 2,91,090.21sqm, and the total construction area will be 5,85,921.16 sqm. The Maximum height of the buildings will be 96 m. (ix) **Water requirement:** Total expected water requirement will be 30 KLD which will be sourced through Tanker Water. Septic tank is provided during ongoing construction and same shall be continued for expansion. Total expected water demand is 1508 KLD, Recycled water is 535 KLD, Waste water generated is 1330 KLD, Capacity of STP is 1392 KLD and Zero treated water to municipal drain. (x) **Solid Waste Management:** Biodegradable waste will be 2743 kg/day Kg/day whichwill be treated in OWC and the manure will be used for landscaping at site and as replacement for saw dust in OWC. Non-biodegradable waste will be 2105 Kg/Day which will be handed over to authorized recyclers. (xi) **Power Requirement:** 300 KVA, total Connected Load: 45552 KW, total Demand Load: 22686 KW. (xii) **Rain Water Harvesting:** The quantity of RWH will be 1089 cum. Capacity of RWH Tanks proposed to be provided, will be 454 cum. (xiii) **Parking Facility:** According to local norms 3847 Nos for 4 wheelers required and parking proposed to be provided for 4019 Nos. (xiv) **Energy saving measures:** 18% of power saving. (xv) **If located/ not located within 10 km eco sensitive area:** No. (xvi) **Investment/Cost of the project:** Rs. 750.00 Crores. (xvii) **Employment Potential:** Total labor required: 695 nos and during construction phase: 100 nos. The Committee noted that EIA report was submitted to SEIAA/SEAC, Maharashtra and SEAC appraised the EIA report. Further, SEAC deferred the proposal for want of addl. Information. It is reported that "proposed incentive FSI of 3 for IT Industry is not approved by MCGM yet. Plans submitted are only for FSI1. Further plans should be in consonance with permission given by Industry Department". However, PP has not submitted the EIA report on the MoEFCC's website. In view of the above, the Committee recommended that : 1. Submit copy of the EIA report on the web portal of environmental clearance. 2. Point wise reply to the queries raised by SEAC, Maharashtra. 3. Copy of certified compliance report issued by the Regional Office of MoEF&CC on the environmental conditions stipulated in the existing environmental clearance. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.3.13.	**Proposed Expansion of Residential and Commercial Project "Oxford City" at village**

Lavale, Tehsil- Mulshi, District Pune, Maharashtra by M/s Knowledge City Education Pvt. Ltd. and M/s. Oxford Golf & Resorts Pvt. Ltd - TOR Regarding - [IA/MH/NCP/61545/2017][F.No.21-105/2016-IA-III]

M/s Knowledge City Education Pvt. Ltd. and M/s. Oxford Golf & Resorts Pvt. Ltd has proposed forexpansion of Residential and Commercial Project "Oxford City" at Gut No. at village Lavale: 1167, 1168, 1169, 1170, 1171, 1172, 1176, 1176, 1178, 1181/1, 1181, 1183, 1183/1, 1184, 1185, 1191, 1194, 1196, 1198/3, 1200, 1201, 1202, 1203, 1204, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1241, 1243, 1245, 1246, 1247, 1253, 1259, 1261, 1263, 1264, 1265, 1266/2, 1269/2, 1283, 1284, 1289, 1656, 1657, 1658, 1659, 1660 & Gut No. at village Bavdhan: 23, 34/1, 34/2/1, 34/4b/1, 129/1, 131, 132, 135, 137/1, 137/2, 137/3, 159, 163, 168, 199, 200/3 in Tehsil- Mulshi of District Pune, Maharashtra.

(i) **Location on Google map/ survey map:**

Sr. No.	Latitude	Longitude	Sr. No.	Latitude	Longitude
A	18°31'26.56"N	73°44'47.79"E	F	18°31'32.35"N	73°43'35.07"E
B	18°31'55.06"N	73°44'27.93"E	G	18°30'25.34"N	73°43'21.19"E
C	18°31'49.04"N	73°44'24.23"E	H	18°30'33.08"N	73°43'32.85"E
D	18°31'50.10"N	73°43'50.32"E	I	18°30'52.10"N	73°43'58.99"E
E	18°31'43.40"N	73°43'29.00"E	J	18°31'13.54"N	73°44'19.66"E

PP informed that as per the Environmental Clearance dated 27-02-2007, 10 nos. of villas, 18 nos. of building (for 186 tenements) and 32 nos. of IT buildings are existed. As per the Environmental Clearance dated 17-10-2006, 446 residential villas, hotel commercial building, university area are existed.

The present expansion will consists of 290 buildings consisting residential, commercial, amenity, educational institutes and hospital, utility. It will includes Residential 108445, Commercial 131629, Hospital 200 (bed), Educational Institute: 9960 Floating Population: 25000. Total 275434 Nos. will be provided. C**ost** of the project is Rs.14,840 Crores (approx.).

The proposed project site is earmarked for Residential& Commercial use as per the local development plans and the proposed project is planned and designed as per the regulations and procedures laid down by the Local Authority (Pune Metropolitan Development Corporation).The total plot area is 38,57,154.00 Sq. m and the total Built up area will be 54,24,423.30 Sq. m.

Total water requirement will be 17265 KLD which will be sourced through Irrigation Department Pune & Treated waste water.Waste water generation will be 12817 KLD. Adequate capacity of STP's are proposed in various location and phases. 12176 KLD of treated waste water will be available for reuse. For flushing, 5268 KLD and for horticulture, 2561 KLD. Excess treated sewage will be disposed to proposed sewer line of NIT.Segregation of non-biodegradable and biodegradable garbage on site. Bio degradable garbage will be treated in OWC (Organic Waste Convertor). Non-biodegradable garbage will be segregated into recyclable and non-recyclable waste and shall be handed over to PMC. STP Sludge (Dry sludge) will be used as manure.Power requirement will be 57 MVA which will be sourced through MSEDCL/MSETCL.RWH Scheme will be provided.**Parking facility** for 27572 Nos. of 4 wheelers will be provided.

After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said*

	project/activity and the following TOR in addition to *Standard ToR* for preparation of EIA-EMP report: i. Certified compliance report issued by the Regional Office, Nagpur for environmental conditions stipulated in the existing EC. ii. Importance and benefits of the project. iii. Present landuse of the proposed project site. iv. Copy of building sanction plan as well as approval of high rise building committee of Maharashtra. v. Details of no. of floor alongwith builtup area to be constructed in each block to be furnished. vi. Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. vii. Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. viii. Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal. ix. Details of source of water supply alongwith permission to be submitted. x. Treatment scheme for sewage and its recycling mode. Excess treated sewage disposal plan/scheme to be submitted. **xi.** Prediction of ground level concentration from the stack of DG sets xii. Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy. xiii. Action plan to comply with the noise pollution norms with respect to various zones. xiv. A management plan for excavation and dewatering to ensure compliance to the CGWA guidelines and regulation. xv. Action plan to manage hospital wastes (liquid as well as solid) as per Bio-medical Waste Management Rules. xvi. Municipal solid waste management plan alongwith area earmarked for solid waste management scheme. xvii. Layout plan indicating Greenbelt alongwith area earmarked to be provided. xviii. Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. Copy of Form1A also to be submitted. It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Infrastrucure-2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.
13.3.14.	**Expansion and Amendment in Residential and Commercial Development at Gat No. 88, 90, 91, 92, 93, 94, 95, 96, 97, 113/2, 124, 125, 126, 127, 128/1, 128/2, 128/3, 122, 123, 126(P) Village- MhalungeKhed Dist. Pune, Maharashtraby M/s Naiknavare Housing Development Pvt. Ltd - TOR – [F.No.21-79/2016-IA-III] [IA/MH/NCP/60326/2016]** M/s Naiknavare Housing Development Pvt. Ltd has proposed for expansion and amendment in Residential and Commercial Development at Gat No. 88, 90, 91, 92, 93, 94, 95, 96, 97, 113/2, 124, 125, 126, 127, 128/1, 128/2, 128/3, 122, 123, 126(P) Village- MhalungeKhed Dist. Pune, Maharashtra**.** Environmental Clearance was issued to the project vide letter No.SEAC-2009/CR.15/TC.2 dated 19th May, 2010 for construction area of 2,60,372.47 m^2. The total construction area completed as per earlier EC dated 19th May, 2010 is 1,18,088.22 m^2. The details are as under:

Completed & Under Construction as per earlier EC			
Sectors	**No. of Bldgs.**	**Bldg. configuration**	**No. of Flats**
Sector 2A			
	37	P + 6 , P + 12	1200
	Club House 1		
Sector 3A	65	P + 8 , G + 1	189
	Club House 1		
Sector 1A	13	P + 4 , G + 3	496
Sector 1B	5	P + 8	384
	Club House 1		
	School-1		
TOTAL	**120**		**2269**
Proposed Construction: for expansion & Amendment			
Sectors	**No. of Bldgs.**	**Bldg. configuration**	**No. of Flats**
Sector 1C	6	P + 12	852
Phase 1	20 shops		
	1 Club House		
Sector 1C	6	P + 12, P+11	810
Phase 2	36 shops		
Sector 3	6	P + 12	564
Phase 1	30 shops		
	1 Club House		
Sector 3	7	P + 12	672
Phase 2	Hotel	P + 7	
	Comm. & retails	P + 2	
	Shopping Mall, shops	P + 7	
	School	G + 6	
	Sports Complex	G + 1	
	Hospital	G + 5	
	Hostel	G + 4	
TOTAL	**25**		**2898**

The total plot area is 2,47,700m^2. The project will comprise of total 145 buildings. FSI area is 2,94,811.12m^{2}and total construction area of 5,28,121.58 m^2 . Total No. of flats 5167 nos., Hotel, Commercial & Retail, Shopping Mall, School, Sports Complex, Hospital and Hostel shall be developed. Maximum height of the building is will be 37.5 m. **Cost** of the project is Rs.715.15 Cr

During construction phase, total water requirement is expected to be 10-20 KLD which will be met by tanker. During the construction phase, soak pits and septic tanks will be provided for disposal of wastewater. Temporary sanitary toilets will be provided during peak labour force.During operational phase, total water demand of the residential project is expected to be 4025 KLD and for Hospital 37 KLD is required out of the total 2526 will be met through Maharashtra Jeevan Pradhikaran (MJP) Waste water generated from residential project (3841 KLD) will be treated in 9 Nos. of STPs of total 3450 KLD capacity. (Existing 3 Nos.- 1800 m^3/day, 255 m^3/day, 225 m^3/day.- MBBR Technology and for proposed 6 nos. of STP - 450 m^3/day, 430 m^3/day, 60 m^3/day, 70 m^3/day, 40 m^3/day, 120 m^3/day - Phytorid Technology) 3380 KLD of treated waste water will be recycled (1300 for flushing, 224 for gardening). About 1856 KLD will be stored in a pond of 10 days capacity further it will be discharged to the natural Nallamentioning BOD

level less than 30 as per CPCB guidelines.For Hospital waste water, ETP will be provided, treated waste water in ETP will be connected to STP for recycle. About12.9 TPD solid waste will be generated in the project. The biodegradable waste (7.7TPD) will be processed in OW C and the non- biodegradable waste generated (5.2 TPD) will be handed over to PCMC.The total power requirement during construction phase is about 100 KW and will be met from Maharashtra State Electricity Distribution Company Limited (MSEDCL) and total power requirement during operation phase is will be met by MSEDCL Supply. D.G. Sets will be used in case of Power Failure only for emergency services.

Details	**Existing Buildings**	**Proposed buildings**	**Total Load**
Connected Load	6700	7358	14058 KW
Maximum Demand	5025	5518.5	10544 KW
D.G. Set		200 KVA - 3 nos.,160 KVA- 4 nos., 500 KVA – 2nos. 82.5 KVA- 1no., 62.5 KVA- 1no.	11 os.

Roof top rain water of buildings will be recharged through 50 nos. of recharge pit having size 2mt. x 0.9mt x 2mt for harvesting after filtration. RWH tank not planned.Parking facility for (1408 Existing + 1471 Proposed) four wheelers and Existing 2329 + Proposed 4165 two wheelers, is proposed to be provided against the requirement of (259 Existing + 365 Proposed) cars and Existing 1843 + Proposed 3964 two wheelers two wheeler respectively (according to local norms).

Component	**Parking Required as per DCR (Nos.)**	**Parking Spaces provision (Nos.)**
4 Wheeler	624	2879
2 Wheeler	5807	6494

Proposed energy saving measures would save about 7% of power.
It is reported that the project is not located within 10 km of any Eco-Sensitive areas.

After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR* for preparation of EIA-EMP report:

i. Certified compliance report issued by the Regional Office, Nagpur for environmental conditions stipulated in the existing EC.
ii. Importance and benefits of the project.
iii. Present landuse of the proposed project site.
iv. Copy of building sanction plan as well as approval of high rise building committee of Maharashtra.
v. Details of no. of floor alongwith builtup area to be constructed in each block to be furnished.
vi. Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished.
vii. Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway.

	viii. Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal. ix. Details of source of water supply alongwith permission to be submitted. x. Treatment scheme for sewage and its recycling mode. Excess treated sewage disposal plan/scheme to be submitted. **xi.** Prediction of ground level concentration from the stack of DG sets xii. Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy. xiii. Action plan to comply with the noise pollution norms with respect to various zones. xiv. A management plan for excavation and dewatering to ensure compliance to the CGWA guidelines and regulation. xv. Action plan to manage hospital wastes (liquid as well as solid) as per Bio-medical Waste Management Rules. xvi. Municipal solid waste management plan alongwith area earmarked for solid waste management scheme. xvii. Layout plan indicating Greenbelt alongwith area earmarked to be provided. xviii. Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. Copy of Form1A also to be submitted. It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Infrastrucure-2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.
13.3.15.	**Expansion of Mixed Use Project at CTS no. 86, 87 of village Paspoli and CTS no. 112, 115 of village Tungwa Saki Vihar Road, Powai, Kurla, Mumbai, Maharashtra by M/s Larsen & Toubro Ltd - TOR - [IA/MH/NCP/60986/2016][F.No.21-80/2016-IA-III]** M/s Larsen & Toubro Ltd has proposed for Expansion of Mixed Use Project at CTS no. 86, 87 of village Paspoli and CTS no. 112, 115 of village Tungwa Saki Vihar Road, Powai, Kurla, Mumbai, Maharashtra. The project was granted Environmental Clearance from SEIAA, Maharashtra vide their letter No. SEAC-2014/CR-151/C-I dated 28.01.2016 for total construction area of 1,49,618.70sqm. No construction is been started on site. Only site clearance work has been started as per previous EC dated 28.01.2016. The total plot area is2, 36,919.00 sqm. 1002 Nos. of flats will be constructed (For Expansion). Total Nos. of Buildings will be 11. Maximum height of the buildings will be 102.4 m. **Cost of the project is** Rs. 1700 Cr .The project includes: • **Wing A** – 3rd B + 2 levels of Part B/Part P + stilt/Gr+1 to 18th Floors – Considered in previous EC dated 28th January, 2016 • **Wing B**– 3rd B + 2 levels of Part B/Part P + stilt/Gr+1st to 2nd Floor - Considered in previous EC dated 28th January, 2016 • **Wing C**– 3rd B + 2 levels of Part B/Part P + stilt/Gr+1 to 18th Floors - Considered in previous EC dated 28th January,2016 In the present expansion, following is proposed: Commercial Towers: (a) IT Tower 1 with 3 basement + Ground + 18 floors, (b) IT Tower 2 with 3 basement + Ground + 6 floor +7th Pt floor and (c) 1 Retail Building with 3 Basements + Ground + 4 floors

Residential Towers:
(a) T1 to T6 - 2 Basement + Ground + 1 podium + Stilt + 30 floor
(b) School – G + 6 Floors

(i) FSI area is as follows:

FSI area for previous EC	93,381.64 Sqm.
FSI area for Expansion	3,54,964.79 Sqm.
Total FSI area	4,48,346.43 Sqm.

(ii) Total construction area is as follows:

Construction area for previous EC	1,49,618.70 Sqm.
Construction area for Expansion	4,87,735.65 Sqm.
Total Construction area	6,37,354.35 Sqm.

It is reported that Powai lake (0.5 km), Vihar lake (1,40 km) and Chandivali Lake (0.52 km) are situated from the project site. Sanjay Gandhi National Park is located within 15 km from the project site.

The total expected water requirement during construction phase will be 30 KLD which will be sourced through Tanker. Septic tank shall be provided during construction. The total expected water demand during operational phase will be 1190 KLD, Recycled water: 974 KLD, Waste water generated: 1082 KLD, Total 6 Nos of STP considered for expansion having total capacity of 1218 KLD. Zero KLD treated water to municipal drain.

Solid Waste Management (For Expansion): Biodegradable waste: 4572 Kg/day which will be treated in OWC and the manure will be used for landscaping at site and as replacement for saw dust in OWC. Non-biodegradable waste: 3094 Kg/Day which will be handed over to authorized recyclers.

Power Requirement: During construction phase approximately 300 KVA power will be required and During operation phase total connected load will be 35129 KW & total demand load will be 14633 KW.

Parking Details: Parking facility for 997 cars in IT and Retail & 1804 Nos. cars for Residential and 361 Nos for two wheelers will be provided.

After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR* for preparation of EIA-EMP report:

i. Certified compliance report issued by the Regional Office, Nagpur for environmental conditions stipulated in the existing EC.
ii. Importance and benefits of the project.
iii. Present landuse of the proposed project site.
iv. Copy of building sanction plan as well as approval of high rise building committee of Maharashtra.
v. Details of no. of floor alongwith builtup area to be constructed in each block to be furnished.
vi. Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste

handling area, rain water harvesting structure, etc. in different colour to be furnished.

vii. Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway.

viii. Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal.

ix. Details of source of water supply alongwith permission to be submitted.

x. Treatment scheme for sewage and its recycling mode. Excess treated sewage disposal plan/scheme to be submitted.

xi. Action plan to prevent nearby waterbodies from water pollution of the proposed project.

xii. Prediction of ground level concentration from the stack of DG sets

xiii. Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy.

xiv. Action plan to comply with the noise pollution norms with respect to various zones.

xv. A management plan for excavation and dewatering to ensure compliance to the CGWA guidelines and regulation.

xvi. Municipal solid waste management plan alongwith area earmarked for solid waste management scheme.

xvii. Layout plan indicating greenbelt alongwith area earmarked to be provided.

xviii. Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. Copy of Form1A also to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Infrastrucure-2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

13.3.16.

Expansion and amendment of mixed used development at Tal. Mulshi, Dist. Pune, Maharashtra by M/s. Goel Ganga Developers (I) Pvt Ltd. - TOR - [IA/MH/NCP/61008/2016][F.No.21-81/2016-IA-III]

M/s. Goel Ganga Developers (I) Pvt Ltd. has proposed for expansion and change of configuration of mixed used development at Village Bavdhan, Taluka Mulshi, District Pune, Maharashtra. Environmental Clearance has been granted by SEIAA vide letter No.SEAC-2212/CR.348/TC.2 dated 29th September, 2014 for the existing project. Status of the construction is as follows:

BUILDING NAME AS PER EC	REVISED NOMENCLATURE	STATUS OF CONSTRUCTION	TOTAL AREA CONSTRUCTED
A3	A3	1st slab RCC work in progress	31,449.57
A4	A4	Finishing work upto 11th floor	
B1	B1	Finishing work up to 11h floor	
B2	B2	2nd slab work in progress	

B3	B3	1st slab work in progress	
B4	B4	Foundation work in progress	
B5	B8	Foundation work in progress	
B6	B9	Foundation work in progress	
C1	B5	Work to be started	
C2	DELETED	-	
D1	B6	Work to be started	
D2	B7	Work to be started	
D3	CLUB HOUSE 2	Work to be started	

(i) The details of the project is as under:

S. No.	**Buildings as per Existing EC**	**No. of Floors as per Existing EC**	**Height of building (Mt) as per Existing EC**	**Tenements as per Existing EC**	**Proposed buildings**	**Proposed No. of Floors**	**Proposed Height of building (Mt)**	**Proposed Tenements**
1	-	-	-		A1	B+B+P+23	69	134
2	-	-	-		A2	B+B+P+23	**69**	176
3	A3	2B+S+11	35.90	74	A3	B+B+P+23	**69**	176
4	A4	2B+S+11	35.90	74	A4	B+B+P+23	**69**	176
5	B1	2B+S+11	35.90	74	B1	B+B+P+23	**69**	182
6	B2	2B+S+11	35.90	74	B2	B+B+P+23	**69**	180
7	B3	2B+S+11	35.90	74	B3	B+B+P+23	**69**	180
8	B4	2B+S+11	35.90	74	B4	B+B+P+23	**69**	180
9	B5	2B+S+11	35.90	74	B8	B+B+P+23	**69**	184
10	B6	2B+S+11	35.90	74	B9	B+B+P+23	**69**	184
11	C1	2B+S+11	35.90	74	B5	B+B+P+23	**69**	180
12	C2	2B+S+11	35.90	74				

13	D1	2B+S+11	35.90	74	B6	B+B+P+23	**69**	180
14	D2	2B+S+11	35.90	74	B7	B+B+P+23	**69**	180
15	D3	2B+S+11	35.90	74	CLUB HOUSE 2	2B+G+2	**-**	-
16	CLUB HOUSE	G+1	-	**-**	CLUB HOUSE	G+1	-	-
17					B10	B+B+P+23	**69**	184
			Total	**954**				**2476**

The total plot area is 1,12,179.0 m^2. proposed 14 Residential buildings having B+B+P+23 floors and 2476 nos of flats and two no. of club house having 2B+G+2 and G+1 floors respectively. **Cost** of the project is Rs.620 Crore.

It is reported that water bodies namely Ram River (Within 500 mt of project site), Indrayani river(16 Km), Mula river (4.52 Km), Mula- Mutha (8.87 Km), Pashan lake (Approx.-1.0 Km), Manas lake-Approx.-5.0 Km Katraj lake-Approx.-11.55 Km Vishrantwadi lake-Approx.-12.30 Km Model colony lake-Approx.-7.0 Km Jambhulwadi lake-Approx.-11.45 Km Lohegaon lake-Approx.14.75 Km Khadakwasla dam-Approx.-9.0 Km Upper Lake-Approx.-11.70 Km Peshva Lake-Approx.-8.25 Km Bhugaon lake-Approx.-3.50 Km Bird Valley Lake-Approx.-14.80 Km Urwade lake-Approx.-12.60 Km are located within 15 km distance.

During construction phase, total water requirement is expected to be 53 KLD which will be met by tanker. During the construction phase Temporary sanitary toilets will be provided with septic tank and soak pits during peak labour force.During operational phase, total water demand of the project is expected to be 2039 KLD and out of the total 1154 KLD for Domestic purpose will be met by GrampanchayatBavdhan, 19 KLD for Swimming Pool will be met by potable quality water tankers and the rest 867 KLD will be met by recycled water. Waste water generated (1560 KLD) uses will be treated in one STP of total 1720 KLD capacity. 867 KLD of treated waste water will be recycled (557 for flushing, 310 for gardening).About 537KLD will be disposed into Grampanchayat drain.About 5.5 TPD solid waste will be generated in the project. The biodegradable waste (3.34 TPD) will be processed in OWC and the non- biodegradable waste generated (2.22TPD) will be handed over to PMC.The total power requirement during construction phase is about 100KW and will be met from Maharashtra State Electricity Distribution Company Limited (MSEDCL)and total power requirement during operation phase is 6016.00KW will be met by MSEDCL Supply.**RWH:** Roof top rain water of buildings will be recharged through 16no. of recharge pit having size 1mt. x 1mt x 1.5mt for harvesting after filtration. RWH tank not planned.**Parking facility** for (1155 Proposed) four wheelers and 2875 two wheelers is proposed to be provided against the requirement of (974 nos.) cars and 2488 nos. two wheelers two wheeler respectively (according to local norms).Proposed energy saving measures would save about 39.97 % of power.

After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR* for preparation of EIA-EMP report:

	i. Certified compliance report issued by the Regional Office, Nagpur for environmental conditions stipulated in the existing EC. ii. Importance and benefits of the project. iii. Present landuse of the proposed project site. iv. Copy of building sanction plan as well as approval of high rise building committee of Maharashtra. v. Details of no. of floor alongwith builtup area to be constructed in each block to be furnished. vi. Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. vii. Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. viii. Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal. ix. Details of source of water supply alongwith permission to be submitted. x. Treatment scheme for sewage and its recycling mode. Excess treated sewage disposal plan/scheme to be submitted. xi. Action plan to prevent nearby waterbodies from water pollution apprehended due to the proposed project. **xii.** Prediction of ground level concentration from the stack of DG sets xiii. Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy. xiv. Action plan to comply with the noise pollution norms with respect to various zones. xv. A management plan for excavation and dewatering to ensure compliance to the CGWA guidelines and regulation. xvi. Municipal solid waste management plan alongwith area earmarked for solid waste management scheme. xvii. Layout plan indicating greenbelt alongwith area earmarked to be provided. xviii. Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. Copy of Form1A also to be submitted. It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Infrastrucure-2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.
13.3.17.	**Development of Residential Apartment project "Prestige Jindal City" at Sy. Nos. 28/4, 29/2, 31/1, 31/2, 32/1, 32/2, 36/1, Chikkabidarakallu Village, DasanapuraHobli, Nelamangala Taluk (Presently Bengaluru North Taluk), Bengaluru, Karnataka by M/s. Prestige South City Holdings – TOR [IA/KA/NCP/61241/2016][F.No.21-82/2016-IA-III]** M/s Prestige South City Holdings has proposed for development of Residential Apartment project "Prestige Jindal City" at Sy. Nos. 28/4, 29/2, 31/1, 31/2, 32/1, 32/2, 36/1, Chikkabidarakallu Village, DasanapuraHobli, Nelamangala Taluk (Presently Bengaluru North Taluk), Bengaluru, Karnataka. The project is located at 13"03'12.74" N Latitude and 77"29'18.86" E Longitude. The total plot area is 1,35,063.82sqm. The project will comprise of 5 Buildings. FSI area is 3, 96,953.30 sqm and total construction area of 5, 81,436.56 sqm. Total 3,498 Nos. flats shall be developed. Maximum height of the building is 95.0 m. The cost of the project is Rs. 590.03 Crores.

	It is reported that water bodies namely Anchepalya Lake (600 m) and Doddabidarakallu Lake (900 m) are located from the project site**.** With reference to theproject site, there is an existing natural tertiary drain passing through the site from south of south west to east of south east direction where for the same a 25m buffer has been provided from the edge of the drain as per the NGT order No. OA 222/2014 dated 04.05.2016 and the same will be retained without doing any diversion. And also there is a kharab land which is termed as Nalakharab in the site hence a buffer of 25m has been provided from the edge of the kharab land as per the NGT order No. OA 222/2014 dated 04.05.2016.It is not located within 10 km of any Eco Sensitive areas. During construction phase, total water requirement is expected to be 176.5 KLD which will be met by External tanker water supplier. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.During operational phase, total water demand of the project is expected to be 2,907 KLD and the same will be met by the Bengaluru Water Supply and Sewerage Board (BWS&SB). Wastewater generation will be 2,326 KLD and treated in 810 KLD, 490 KLD, 905 KLD & 130 KLD STPs of total 2,335 KLD capacity. 1,237 KLD of treated wastewater will be recycled (982 KLD for flushing,255 KLD for gardening). About 856 KLD will be disposed in to municipal drain.About 9.6 TPD solid wastes will be generated in the project. The biodegradable waste (5.4 TPD) will be processed in OWC and the non-biodegradable waste generated (4.2 TPD) will be handed over to authorized local vendor. **Power requirement:** The total power requirement during construction phase is 250 kVA and will be met from Bengaluru Electricity Supply Company Ltd. (BESCOM) and total power requirement during operation phase is 24,265 kVA and will be met from Bengaluru Electricity supply company Ltd. (BESCOM). **RWH:** Rooftop rainwater of buildings will be collected in 115 Cum, 60 Cum, 100 Cum & 50 Cum RWH tanks of total 325 KLD capacity for harvesting after filtration.**Parking Facility:** Parking facility for 3,780 Nos. four wheelers and Zero two wheelers is proposed to be provided against the requirement of 3,777 Nos. and Zero respectively (according to local norms).Proposed energy saving measures would save about 28.5% of power. There will be 350 nos. of tree cutting in the project site. The Committee also suggested them to relocate the entry and exit gate of the proposed project site in order to avoid traffic congestion on the main road. After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR* for preparation of EIA-EMP report: i. Compliance of NGT order dated 04.05.2016 in the matter of OA 222/2014 regarding existing natural tertiary drain passing through the project site. ii. Importance and benefits of the project. iii. Present landuse of the proposed project site. iv. Copy of building sanction plan as well as approval of high rise building committee of Maharashtra. v. Details of no. of floor alongwith builtup area to be constructed in each block to be furnished. vi. Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. vii. Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. Relocate the entry and exit gate of the proposed project site in order to avoid traffic congestion on the main road. viii. Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal.

	ix. Details of source of water supply alongwith permission to be submitted. x. Treatment scheme for sewage and its recycling mode. Excess treated sewage disposal plan/scheme to be submitted. xi. Action plan to prevent nearby waterbodies from water pollution apprehended due to the proposed project. **xii.** Prediction of ground level concentration from the stack of DG sets xiii. Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy. xiv. Action plan to comply with the noise pollution norms with respect to various zones. xv. A management plan for excavation and dewatering to ensure compliance to the CGWA guidelines and regulation. xvi. Municipal solid waste management plan alongwith area earmarked for solid waste management scheme. xvii. Layout plan indicating greenbelt alongwith area earmarked to be provided. xviii. Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. Copy of Form1A also to be submitted. It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Infrastrucure-2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.
13.3.18.	**Development of IT Building at Plot No. D-108/1,T.T.C. Industrial area,Nerul, Navi Mumbai, District Thane, Maharashtra by M/s Vishwagreen Realtors Pvt. Ltd.- Environmental Clearance – [F.No.21-97/2016-IA-III][IA/MH/MIS/60854/2016]** M/s Vishwagreen Realtors Pvt. Ltd. has proposed for development IT building at Plot No. D-108/1,T.T.C. Industrial area,Nerul, Navi Mumbai, District Thane, Maharashtra**.** The project is located at 19°02'42.2"N Latitude and 73°01'42.6"E longitude.The total plot area is 3300.00 sqm. The project will comprise of Commercial 1 Building + Basement + Ground +First Floor (Part Parking) + second floor Parking + third floor Parking + fourth floor Parking + 29 Floors (Total Basement+ Ground+ 32 Floors). FSI area is 9743.801 sqm. and total construction area of 27620.106 sqm. Total 234 IT Units shall be developed. Maximum height of the building is 118.800 m. Cost of the project is Rs. 89 crore. During construction phase, total water requirement is expected to be 12 KLD for workers and 10-20 KLD for construction, which will be met by MIDC and water tankers. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labour force.During operational phase, total water requirement will be 69 KLD. Out of which fresh water requirement from MIDC water supply will be 29 m3/day and remaining water requirement (40 m3/day) will be met from recycled/treated effluent. Wastewater generation will be 59 KLD and treated in the STP based Microfiltration technology. 40 KLD of treated wastewater will be recycled (37 KLD for flushing, 3KLD for gardening). About 13 KLD will be disposed in to municipal drain. **Solid Waste Management:** About 355.50 TPD solid wastes will be generated in the project. The biodegradable waste (142.20 TPD) will be processed in OWC and the non-biodegradable waste generated (213.30 TPD) will be handed over to authorized local vendor. E waste generation will be 2.3 MTPA. Committee suggested them to provide atleast 80 m^2 area for management of solid waste. **Power requirement**: The total power requirement during construction phase is 100 KVA and will be met from MSEDCL and total power requirement during cooperation phase is 1452.73 KVA and will be met from MSEDCL. **RWH:** Rooftop rainwater of buildings will be collected in 1

	RWH tank of total 15.00 KLD capacities for harvesting after filtration. **Parking facility** for 215 four wheelers are proposed to be provided against the requirement of 195 (According to local norms).Proposed energy saving measures would save about 27 % of power. Area earmarked for greenbelt is 450 m^2. DG set (500 KVA) will be installed. After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects Proponents shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) Construction site should be adequately barricaded before the construction begins. (iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code. (iv) 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. (v) 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. (vi) Sewage shall be treated in the STP (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. (vii) As proposed, Rooftop rainwater of buildings will be collected in 1 RWH tank of total 30.00 KLD capacities for harvesting after filtration as per CGWB guidelines. (viii) Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 80 m^2 of area for the proposed building shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from project will be sent to dumping site of Municipality. E-waste shall be disposed through authorised E-waste processor.re-cyclers. (ix) Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power. (x) A First Aid Room will be provided in the project both during construction and operations of the project. (xi) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site. (xii) 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 sites with the approval of competent authority.

	(xiii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards. (xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred. (xv) As proposed, no ground water shall be used during construction / operation phase of the project. (xvi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. (xvii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. (xviii) 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 standards be operated only during non-peak hours. (xix) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xx) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxi) As proposed, no ground water shall be used during construction / operation phase of the project. (xxii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from MIDC Water Supply shall not exceed 29m^3/day. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent water should be discharged into storm water drain. (vi) Solid waste management shall be collected, treated disposed in accordance with

	the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. (viii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (ix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. (x) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.3.19.	**"Sunberry" residential and commercial development at Plot No. 26, Sector-8, Ghansoli, Navi Mumbai, District – Thane, Maharashtra by M/s NeelkanthInfratech Co. - Environmental Clearance – [F.No.21-95/2016-IA-III][IA/MH/MIS/60828/2016]** M/s NeelkanthInfratech Co. has proposed for development of residential and commercial development at Plot No. 26, Sector-8, Ghansoli, Navi Mumbai, District Thane, Maharashtra. The project is located at 19°07'05.0"NLatitude and 72°59'46.5"Elongitude.The total plot area is 4825.580 sqm. The project will comprise of Residential 1 Owner building + Ground + 3 podium (parking) + 1 podium (garden) + 1 fire check floor + 24 floors + 141 Flats + 22 shops and in MHADA building + stilt + 9 floors + 33 flats. FSI area is 8685.978 sqm. and total construction area of 30170.176 sqm. Total 174 flats shall be developed. Maximum height of the building is 92.60 m.Cost of the project is Rs 98.70 in crore. It is reported that no eco-sensitive area is located within 15 km distance. During construction phase, total water requirement is expected to be 12 KLD for workers and 10-20 KLD for construction, which will be met by NMMC and water tankers. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labour force.During operational phase, total water requirement of the project is 166.80 KLD. Out of which, fresh water requirement from NMMC water supply is 90 m^3/day. Remaining water requirement (51.0 m3/day) will be met from recycled/treated effluent water. Waste water generation is 135.50 KLD and treated in Microfiltration technology based on KSQ flat sheet membrane STP of total 140.00 KLD capacity. 58.80 KLD of treated wastewater will be recycled (50.00 for flushing, 5.00 for gardening, 3.80 for car washing). About 63.15 KLD will be disposed in to municipal drain. Municipal solid waste: About 414.45 TPD solid wastes will be generated in the project. The biodegradable waste (290.11 TPD) will be processed in OWC and the non-biodegradable waste generated (124.33 TPD) will be handed over to authorized local vendor. Power requirement**:** The total power requirement during construction phase is 100 KVA and will be met from MSEDCL and total power requirement during cooperation phase is 2878 KW and will be met from MSEDCL.**RWH:**Rooftop rainwater of buildings will be collected in 1 RWH tank of total 17.73 KLD capacities for harvesting after filtration. Parking facility for 255 four wheelers is proposed to be provided against the requirement of 255 (According to local norms).Proposed energy saving measures would save about 22.67 % of power. After detailed deliberation, the Committee sought following additional information:

	(i) Landuse of the propose project site. **(ii)** Copy of approved Sanction plan. Approval of the project from High Rise Building Committee of Maharashtra. **(iii)** Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. **(iv)** Status project proposal in the SEIAA, Maharashtra. **(v)** Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. **(vi)** Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. **(vii)** Prediction of ground level concentration of emissions from stack due to DG sets. **(viii)** Efforts shall be made to reduce the capacity of DG sets. **(ix)** At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid. **(x)** Increase the area earmarked for solid waste management facilities. **(xi)** Details energy conservation measures to be taken. taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal **(xii)** Increase the area for greenbelt. Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website
13.3.20.	**Residential and commercial development at Plot No. -2, Sector- 8, Ulwe,Navi Mumbai, District Raigad, Maharashtra by M/s Midtown Holding Leasing and Properties Pvt. Ltd.- Environmental Clearance - [IA/MH/MIS/60221/2016][F.No.21-96/2016-IA-III]** Proposal was considered by the EAC in its 11th meeting held on 24-25th November, 2016 and the Committee deferred the proposal for want of addl. information. Existing project file no. is F.No.21-41/2016-IA-III. Now, new file no. (F.No.21-96/2016-IA-III) has been created. Therefore, the Committee suggested to delist the duplicate file no. 21-41/2016-IA-III. PP has submitted the point wise reply on the website of MoEF&CC. The Committee also noted that earlier EC has been granted by SEIAA, Maharashtra vide letter no. SEAC-2013/CR-489/TC-1 dated 31st May 2014. The Committee suggested them to submit the copy certified compliance report issued by the MoEF&CC's Regional Office, Nagpur. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website
13.3.21.	**Construction of Proposed Residential Township Project "Casa Florenza" At Mauza - Patapur & Fakirpada, District Cuttack, Odisha by M/s Sai Kripa Real Estate Pvt Ltd – Environment Clearance reg. IA/OR/NCP/61434/2014 (21-12/2017-IA-III)** The project authorities and their consultant (M/s Ind Tech House Consult) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Draft Terms of References (TORs) awarded during the Meeting of the State level Expert Appraisal Committee, Odisha held during 23rd February, 2015 for preparation of EIA-EMP report. Terms of Reference (ToR) was granted by SEIAA, Odisha vide letter No.127/SEAC-274 dated 23rdFebruary, 2015.Proposed project falls under item no. 8 (b) i.e. Township and area development projects of the schedule of the EIA Notification, 2006. As per amended notification dated 9.12.2016, covering an built up area more than 3,00,000

m^2, proposal is categorized as Category 'A' and appraised by EAC.

M/s Sai Kripa Real Estate Pvt Ltd has proposed for Construction of Proposed Residential Township Project "Casa Florenza" At Mauza - Patapur & Fakirpada, District Cuttack, Odisha. Net plot area of the proposed project is 96601.18 m^2 and proposed built-up area is 3,70,067 m^2. Cost of project is Rs. 558 Crores. Configuration of building is as given below:

S.N.	Description	Details
1	Number Building Blocks	27 (25 + 2)
2	Total no of Dwelling units	1258 ns.
3	No. of EWS Units	533 Nos.
4	Maximum Height of Building	50.46 m
5	Maximum No. of floors	B + ST + 16

It is reported that protected forests namely Jagannath Prasad PF (10.5 Km), Bharatpur PF (12.8 km), Nuapalli PF (14.2 Km), Dalua PF (11.6 km) and Krushna Nagar PF (4.36 km) and Reserved Forests namely Chandaka RF (4.5 km), Churhanga RH (3.7 Km), Suniamuhan RF (9.9 km), Subasi RF (11.13 km), Oringa RF (14.3 km), Khalakhala RF (11.6 km), Charbatia RD (14.39 km) and SankaRF (14.43 km). Nandan kanan zoological park is located at a distance of 5.5 km.

Water bodies namely Puri main canal (1.45 km), Daya Canal (4.7 km), Kakatapur canal (6.7 km) and Taladanda Canal (6.6 km), Kathajorh River (0.4 km), Mahanadi River (4.9 km) Kuakhai River (2.4 km), Serua River (7.25 Km and Sapua Nadi (9.8 km) are located withn 10 km distance.

Stack height of 64.2 m will be provided to DG set (5000 KVA). Total water requirement will be 1400 m^3/day. Out of which fresh water requirement will be 878 m3/day and remaining water requirement (i.e. 522 m^3/day) will be met from treated sewage. Wastewater generation will be 1138 m3/day and treated in the sewage treatment plant (STP) based on MBBR Technology followed by Ultra Filtration. Treated sewage will be recycled/reused for flushing, gardening and DG cooling. Greenbelt will be developed in 19647 m^2 of land. Total waste generation will be 4.02 TPD of which, organic waste generation will be 2.41 TPD; E-waste generation will be 25 KG/day and Sludge generation will be 409.76 Kg/day. Hazardous waste generation will be 1000 Lt/Annum. PP informed that space earmarked for solid waste management will be 200 m^2 and 50 m^2 for e-waste collection respectively. 26 nos of rain water recharge pits will be provided. Total parking area proposed is 95324 m^2. No R & R involved in the said project. The Group Housing project will be developed as per CDA master plan, which demarcates the project site as residential zone. PP confirmed that the project is outside the flood plain. The PP informed that no natural drains are passing through the project site and will not disturb the natural drains. Energy conservation measures will be adopted. PP will incorporate sola passive techniques in the building design to minimize load on conventional system. Energy efficient building envelops will be followed. Energy efficient LED lamps to be provided to reduce energy consumption. 250 KWP Solar PV plant will be installed. PP informed that two artificial ponds will be constructed (one of 600 m^2 and another of 400 m^2)

After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance:

I. Construction Phase

(i) The Projects proponent shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building

		byelaws.
	(ii)	Construction site should be adequately barricaded before the construction begins.
	(iii)	The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code.
	(iv)	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.
	(v)	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.
	(vi)	Sewage shall be treated in the STP (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling.
	(vii)	As proposed, 26 nos of rain water recharge pits as per CGWB guidelines.
	(viii)	Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 250 m^2 of area for the proposed building shall be provided for solid waste management within the premises which will include area for segregation, composting etc. The inert waste from project will be sent to dumping site of Municipality. E-waste shall be disposed through authorised E-waste processor.re-cyclers.
	(ix)	Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.
	(x)	A First Aid Room will be provided in the project both during construction and operations of the project.
	(xi)	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
	(xii)	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 sites with the approval of competent authority.
	(xiii)	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards.
	(xiv)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
	(xv)	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
	(xvi)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
	(xvii)	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 standards be operated only during non-peak

	hours. (xviii) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xix) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xx) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from CDA/Municipal Water Supply/Ground Watershall not exceed 878m^3/day. Prior permission shall be obtained from CGWA/SGWA for ground water extraction. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent should be discharged into storm water drain/river. (vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. (viii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (ix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. (x) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.

13.3.22. **Development of Outer Harbour Paradip Port Trust, Paradip, Taluka Kujang, District Jagatsinghpur, Odisha by M/s Paradip Port Trust – Reconsideration for Finalization of ToR – [F.No.21-28/2016-IA-III;** IA/OR/MIS/60156/2016**]**

Proposal was considered by EAC (Infra-2) in its meeting held on 24-25 November, 2017 and the Committee sought following additional information:

i. Tabular statement indicating details of (a) existing facilities as per existing EC obtained; (b) proposed additional facilities; (c) total capacity after expansion to be provided.
ii. Details of all environmental clearance obtained for the existing project.
iii. Status of implementation of the existing EC.
iv. As per form1, it is mentioned that proposal involves forest clearance. But during meeting it was informed that expansion will be carried out on the reclaimed land. submit clarification on the land use of the existing ports and proposed project area.
v. Details of land use of the existing ports and proposed project area
vi. Details of cargo to be handled.
vii. Clear activity chart for the activities to be undertaken in the first phase.

PP vide letter dated 9.1.2017 has submitted the addl. Information. PP informed that
Paradip Port Trust was commissioned in 1966. These berths are in operation since long time. Consent to Operate is being issued by the State Pollution Control Board, Odisha which is periodically renewed.PP has submitted the (i) copy of EC issued on 10.04.1992 for coal handling berths; (ii) Copy of EC issued on 24.12.1997 for grassroot petroleum refinery and North Oil Jetty ;Copy of EC& CRZissued on 13.07.2012 for south Oil Jetty; (iv) copy of EC & CRZ issued on 4.01.2011 for deep draught iron ore. So far, new Iron export berth; new coal import berth and new clean cargo berth to be implemented.

It was informed that as on date installed handling capacity of port is 93.6 MTPA. Now EC is sought for 5 additional berths with capacity of 70 MTPA. Total capacity after expansion will be 163.6 MTPA. Total existing plot area is (i) custom bound harbour area (871.95 ha) + (ii) Township, Industrial Zone, Storage Terminals, Railway Sidings etc (1683.14 ha) = 2555.09 ha. Total area for proposed Outer Harbour for the Master plan is 300 ha which includes 80 ha of existing land and 220 ha of proposed reclaimed land. Out of the existing 80 ha about 75 ha of area is forest land and balance 5 ha is non forest land utilized for the proposed project. Details of cargo to be handled are as given below:

S.N.	Berth Type	Cargo	
1	Bulk Export	Thermal Coal	Export
2	Bulk Export	Coking coal, Limestone, Gypsum	Import
3	Multipurpose	Break Bulk	Import/Export

After detailed deliberations on the proposal, the Committee *recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity* and the following TOR in addition to *Standard ToR*for preparation of EIA-EMP report:

i. Importance and benefits of the project.
ii. A separate chapter on status of compliance of Environmental Conditions granted by State/Centre to be provided. As per circular dated 30th May, 2012 issued by MoEF, a certified report by RO, MoEF&CC on status of compliance of conditions on existing port to be provided in EIA-EMP report.
iii. Submit a copy of layout superimposed on the HTL/LTL map demarcated by an authorized agency on 1:4000 scale.

	iv. Recommendation of the SCZMA. v. Status of stage -1 forest clearance for the involvement of forest land of 75 ha. vi. Various Ports facilities with capacities for proposed project. vii. List of cargo to be handled along with mode of transportation. viii. Layout plan of existing and proposed Port. ix. A detailed analysis of the physico-chemical and biotic components in the highly turbid waters round the project site (as exhibited in the Google map shown during the presentation), compare it with the physico- chemical and biotic components in the adjacent clearer (blue) waters both in terms of baseline and impact assessment and draw up a management plan. x. Study the impact of dredging on the shore line. xi. A detailed impact analysis of rock dredging. xii. Action plan for disposal of dredged soil and rocks. xiii. Dispersion modelling for the dumping of the dredge materials shall be carried out. The study report shall be incorporated. xiv. Details of air pollution control measures to be taken as well as cost to be incurred. xv. Total water consumption and its source. Wastewater management plan. xvi. Details of Environmental Monitoring Plan. xvii. The Marine biodiversity impact assessment report and management plan shall deal with all micro, micro and mega biotic components and ecology within the area of influence and should be drawn up through the National Institute of Oceanography or any other institution specializing in marine ecology. xviii. Disaster Management Plan for the above terminal. xix. Layout plan of existing and proposed Greenbelt. xx. Status of court case pending against the project. xxi. A tabular chart with index for point wise compliance of above TORs. xxii. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. It was recommended that 'TORs' along with Public Hearing prescribed by the Expert Appraisal Committee (Infrastrucure-2) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The draft EIA/EMP report shall be submitted to the State Pollution Control Board for public hearing. The issues emerged and response to the issues shall be incorporated in the EIA report.
Wednesday, 25th January, 2017	
13.4.1	**Proposed Hotel on plot A-5(PT) bearing C.T.S. No. 1/9 A -1 (PT)of village Ghatkopar, Vikhroli Park site, Vikhroli (W), Mumbai, Maharashtra by M/s Kailas Hospitalities- Environmental Clearance – [F.No.21-98/2016-IA-III][IA/MH/MIS/60882/2016]**

	The Committee deferred the project as the project proponent did not attend the meeting.
13.4.2	**Proposed residential cum commercial project at S. No. 112A, 113/ 114, 117, 118, 119/ 122A,123A, 296/ 297, 318 P. No. 3,4,5,5A,10,11,11A,12,15,16 Pune Solapur Road, Hadapsar, Pune, Maharashtra by M/s Dosti Realty Limited- Environmental Clearance - [F.No.21-99/2016-IA-III][IA/MH/MIS/61054/2016]** M/s Dosti Realty Limited has proposed for development of residential cum commercial project at S. No. 112A, 113/ 114, 117, 118, 119/ 122A,123A, 296/ 297, 318 P. No. 3,4,5,5A,10,11,11A,12,15,16 Pune Solapur Road, Hadapsar, Pune, Maharashtra. The project is located at 18°30'20.31"N Latitude and 73°55'08.46"E Longitude.The total plot area is 48,284.39 m^2. FSI area is 84,412.73 $m^2$and total built-up area is 1,46,972.99 m^2. The project comprises of 13 Residential Buildings, 1 Commercial building, and club house. Total 712 Flats and 870 m^2 of commercial area shall be developed. Maximum height of the building is 68.10 m.**Cost** of the project is Rs. 488 Cr. It is reported that waterbodies namely Irrigation Department's water supply canal (Mutha canal section)- 120 m and Mula- Mutha River (3.5 km) are located within 10 km distance. During construction phase, total water requirement is expected to be 150 KLD which will be met by tanker water. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.During operational phase, total water requirement will be 419 m^3/dayof which, fresh water requirement from PMC (Municipal Water Supply) will be 300 m^3/day and remaining water requirement (96 m3/day) will be met from recycled water/treated sewage. Wastewater generation will be362 m^3/day and treated in STP of 400 KLD capacity. 96 KLD of treated wastewater will be recycled for flushing. About 239 KLD will be discharged in Municipal sewer lines.About 2277 kg/d solid waste will be generated in the project. The biodegradable waste (1366 kg/d) will be processed in mechanical composting (Eco-biocompack) and the non-biodegradable waste generated (911 kg/d) will be handed over to authorized local vendor. Space of 100 m^2 will be provided foe solid waste management. The total power requirement during construction phase is 300 kVA and will be met from MSEDCL and Total power requirement during operation phase is 3.3 MW and will be met from MSEDCL.Rooftop rainwater of building will be recharged in ground through 5 nos. of recharge pits.Parking facility for 1631 Nos. four wheelers and 2525 Nos. two wheelers are proposed to be provided against the requirement of 986 and 1510 respectively (According to local norms).Proposed energy saving measures would save about 20.6 % of power. After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects proponent shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) Construction site should be adequately barricaded before the construction begins. (iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems

		and equipment shall comply with the provisions of Energy conservation building Code.
	(iv)	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.
	(v)	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.
	(vi)	Sewage shall be treated in the STP (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling.
	(vii)	As proposed, 5 nos of rain water recharge pits as per CGWB guidelines.
	(viii)	Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 100m^2 of area for the proposed building shall be provided for solid waste management within the premises which will include area for segregation, composting etc. The inert waste from project will be sent to dumping site of Municipality. E-waste shall be disposed through authorised E-waste processor.re-cyclers.
	(ix)	Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.
	(x)	A First Aid Room will be provided in the project both during construction and operations of the project.
	(xi)	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
	(xii)	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 sites with the approval of competent authority.
	(xiii)	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards.
	(xiv)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
	(xv)	As proposed, no ground water shall be used during construction / operation phase of the project.
	(xvi)	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
	(xvii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
	(xviii)	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 standards be operated only during non-peak hours.
	(xix)	Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xx) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (xi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (xii) Fresh water requirement from Municipal Water Supplyshall not exceed 305m^3/day. (xiii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (xiv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (xv) No sewage or untreated effluent water should be discharged into storm water drain. (xvi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (xvii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. (xviii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (xix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. (xx) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.4.3	**Proposed Redevelopment of Residential cum Commercial Project at CTS. No. 15, 47, 48, 49, 59 & 63 at L.B.S. Marg, Damani Estate, Naupada, Thane by M/s Providence Realty LLP- Environmental Clearance -[F.No.21-100/2016-IA-III][IA/MH/MIS/61192/2016]**

	M/s Providence Realty LLP has proposed for redevelopment of residential cum commercial Project at CTS. No. 15, 47, 48, 49, 59 & 63 at L.B.S. Marg, Damani Estate, Naupada, Thane, Maharashtra. The project is located at 19°11'25.58"N Latitude and 72°57'58.94"E Longitude.The plot area is 10,562.27 m^2. FSI area is 23,522.95 m^2 and total construction area is 47,642.69 m^2. The proposed redevelopment comprises of 2 residential buildings having 363 flats, Commercial shops and offices shall be developed. Maximum height of the building is 91.95 m.Cost of the project is Rs. 115 Crore. It is reported that the project site is located within 10 km of Sanjay Gandhi National Park. However, it is outside the eco-sensitive area as per MoEF&CC Notification dated 5th December, 2016. During construction phase, total water requirement is expected to be 60 KLD which will be met by tanker water / treated water from nearby STP. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided.During operational phase, total water demand of the project is expected to be 201 KLD and same will be met by fresh water from TMC (Thane Municipal Corporation) and recycled water. Wastewater generated (176 KLD) uses will be treated in STP of 200 KLD capacity. 50 KLD of treated water will be recycled for flushing and about 10 KLD for gardening. About 114 KLD will be discharged in Municipal sewer line.About 1114 kg/d solid waste will be generated in the project. The biodegradable waste (669 kg/d) will be processed in mechanical composting (Eco-biocompack) and the non-biodegradable waste 446 kg/d will be handed over to recyclers.The total power requirement during construction phase is 250 kVA and will be met from MSEDCL and total power requirement during operation phase is 1.8 MW (demand Load) and will be met from MSEDCL.Rooftop rainwater of building will be collected in 2 RWH tanks of total 50 m^3 holding capacity for harvesting after filtration.**Parking facility**: Parking facility for 435 Nos. of four wheelers and 370 Nos. of two wheelers are proposed to be provided against the requirement of 434 Nos. four wheelers and 363 Nos. two wheelers respectively (as per local norms).Proposed energy saving measures would save about 21.19 % of power. After detailed deliberation, the Committee sought following additional information: **(i)** Status of project proposal in SEIAA, Maharashtra. **(ii)** Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. **(iii)** Copy of approved Sanction plan. **(iv)** Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. **(v)** Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. **(vi)** Details of source of water supply alongwith permission to be submitted. **(vii)** Excess treated sewage disposal plan/scheme to be submitted. **(viii)** Prediction of ground level concentration of emissions from stack due to DG sets. **(ix)** Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy. **(x)** At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid. **(xi)** Solid waste management plan alongwith area earmarked for solid waste management scheme. **(xii)** Action plan for management of construction and demolition waste. **(xiii)** Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting. **(xiv)** Details energy conservation measures to be taken (all points mentioned in the

	proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal **(xv)** Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.4.4	**Redevelopment of Residential cum Commercial Project at Byculla, Mumbai, Maharashtra by M/s Dosti Realty Ltd - Environmental Clearance - [F.No.21-101/2016-IA-III] [IA/MH/MIS/61280/2016]** M/s Dosti Realty Ltd has proposed for redevelopment of property bearing C. S. No. 2050 of byculla div. situated at N.M Joshi Marg, Byculla, Mumbai, Maharashtra. The project is located at 18°59'2.07"N Latitude and 72°49'56.28"E Longitude.The plot area is 5,221.61 m^2. FSI area is 21,099.74 m^2 and total construction area is 41,541.53 m^2. Total 71 Sale Flats, 252 Rehab Flats, 15 Commercial shops, parking building shall be developed. The maximum height of the building is 150.3 m.**Cost** of the project is Rs. 244 Cr. It is reported that Jijamata Udyan Zoo(Approx 0.6 km) is located within 10 km distance. Water bodies namely Jijamata Udyan Zoo(0.6 km) within 10 km distance. During construction phase, total water requirement is expected to be 60 KLD which will be met by tanker water / treated water from nearby STP. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.During operational phase, total water demand of the project is expected to be 146 KLD and same will be met by fresh water from MCGM (Municipal Corporation of Greater Mumbai) and recycled water. Wastewater generated (130 KLD) uses will be treated in STP of 140 KLD capacity. 35 KLD of treated water will be recycled for flushing and about 2 KLD for gardening. About 91 KLD will be discharged in Municipal sewer line.About 817 kg/d solid waste will be generated in the project. The biodegradable waste (490 kg/d) will be processed in mechanical composting (Eco-biocompack) and the non-biodegradable waste 327 kg/d will be handed over to recyclers.The total power requirement during construction phase is 250 kVA and will be met from BEST and Total power requirement during operation phase is 3.5 MW (demand Load) and will be met from BEST.Rooftop rainwater of building will be collected in 2 RWH tanks of total 115 m^3 capacity for harvesting after filtration.**Parking facility** for 181 Nos. four wheelers and 10 Nos. two wheelers are proposed to be provided against the requirement of 180 Nos. four wheelers (as per local norms).Proposed energy saving measures would save about **20.3** % of power. After detailed deliberation, the Committee sought following additional information: **(i)** Status of project proposal in SEIAA, Maharashtra. **(ii)** Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. **(iii)** Copy of approved Sanction plan. **(iv)** Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. **(v)** Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. **(vi)** Details of source of water supply alongwith permission to be submitted.

	(vii) Excess treated sewage disposal plan/scheme to be submitted. **(viii)** Prediction of ground level concentration of emissions from stack due to DG sets. **(ix)** Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy. **(x)** At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid. **(xi)** Solid waste management plan alongwith area earmarked for solid waste management scheme. **(xii)** Action plan for management of construction and demolition waste. **(xiii)** Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting. **(xiv)** Details energy conservation measures to be taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal **(xv)** Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.4.5	**Proposed Redevelopment of Residential Building No. 38 & 39 of Vartaknagar Layout at Plot bearing Sy. No. 212 (Pt) at village Majiwade, Tal and Dist: Thane, Maharashtra by M/s Ekdanta Construction & Developers Pvt. Ltd- Environmental Clearance – [F.No.21-102/2016-IA-III][IA/MH/MIS/61293/2016]** M/s Ekdanta Construction & Developers Pvt. Ltd. has proposed for redevelopment of residential building No. 38 & 39 of Vartaknagar Layout at Plot bearing Sy. No. 212 (Pt) at Village Majiwade, Taluka and District Thane, Maharashtra. The project is located at $19^0$12'42.34"N Latitude and $72^0$57'39.77"E Longitude. The total plot area is 3,810.77 m^2. FSI area is 16,334.24 $m^2$and total construction area is 31,275.50 m^2. The project comprise of 1 Residential Building having 305 flats & Commercial area of 2260 m^2 (44 shops). Maximum height of the building is 91.50 m.It is reported that Sanjay Gandhi National Park (approx. 1.3 km)and Tungareshwar Wild life Sanctuary (12 km) are located at a distance of 15 km. During construction phase, total water requirement is expected to be 60 KLD which will be met by tanker water/ treated water from nearby STP. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force. During operational phase, total water demand of the project is expected to be 167 KLD and same will be met by fresh water from TMC (Thane Municipal corporation) and recycled water. Wastewater generated (Sullage Generation- 95 KLD) will be treated in Sullage Treatment Plant of 100 KLD capacity. 44 KLD of treated wastewater will be recycled for flushing. Sewage and Excess Treated Sullage of 93 KLD will be discharged to Municipal sewer lines.About 960 kg/d solid waste will be generated in the project. The biodegradable waste (576 kg/d) will be processed in mechanical composting (Eco-biocompack) and the non-biodegradable waste generated (384 kg/d) will be handed over to authorized local vendor. The total power requirement during construction phase is 250 kVA and will be met from MSEDCL and Total power requirement during operation phase is 1.4 MW (Demand Load) and will be met from MSEDCL.Rooftop rainwater of building will be collected in one RWH tank of total holding capacity 49 m^3 for harvesting after filtration. **Parking facility** for 280 Nos. four wheelers and 305 Nos. two wheelers are proposed to be provided against the requirement of 223 four wheelers and 305 two wheelers respectively (as per local norms). Proposed energy saving measures would save about 20.5 % of (Total demand) power.

	After detailed deliberation, the Committee sought following additional information: **(i)** Status of project proposal in SEIAA, Maharashtra. **(ii)** Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA notification of 09-12-2016. **(iii)** Copy of approved Sanction plan. **(iv)** Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished. **(v)** Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway. **(vi)** Details of source of water supply alongwith permission to be submitted. **(vii)** Excess treated sewage disposal plan/scheme to be submitted. **(viii)** Prediction of ground level concentration of emissions from stack due to DG sets. **(ix)** Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy. **(x)** At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid. **(xi)** Solid waste management plan alongwith area earmarked for solid waste management scheme. **(xii)** Action plan for management of construction and demolition waste. **(xiii)** Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting. **(xiv)** Details energy conservation measures to be taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal **(xv)** Layout plan indicating Greenbelt alongwith area earmarked to be provided. The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.
13.4.6	**Proposed Residential cum Commercial Project- "Wadhwa Rhodesia" at S. No. 158/9, bhiwandi Railway Station, Pritesh Compound, Bhiwandi, Thane, Maharashtraby M/s Wadhwa Rhodesia- Environmental Clearance - [IA/MH/MIS/61424/2016][F.No.21-103/2016-IA-III]** *The Committee deferred the project as the project proponent did not attend the meeting.*
13.4.7	**Mixed used development "Trivedi Tower" CTS No 551/13 at junction of Madan Mohan Malviya Road, & 18.30 wide D P Road of village NahurMulund (w), Mumbai, Maharashtra by M/s ChhaganlalKhimji& Co Ltd- Environmental Clearance – [IA/MH/MIS/56371/2016][F.No.21-90/2014- IA III]** Project proposal was considered by the EAC (Infra-2) in its meeting held on 23rd February, 2016 and the Committee desired the following addl. Information : a) Fresh form1, IA and conceptual plan. b) A report on mandatory compliance measures taken for proposed buildings as recommended in the Energy conservation building code (ECBC) 2007 of the Bureau of

Energy Efficiency, Government of India.

c) Solar power to be included.
d) Details of rain water harvesting system to be incorporated.
e) Solid waste management.
f) Details of car parking norms to be followed.
g) Fresh water balance. Source of water supply. Details of STP.

PP has submitted the addl. Information. Environment Clearance was granted vide letter No.21-74/2006-IA-III dated 17th October 2006. Total Constructed FSI on site till date is 19485.97 sqm. The Committee noted that project file of existing EC is closed as validity of existing EC is expired. Proposed project will be considered as fresh EC proposal.

The project involves mixed used development "Trivedi Tower" CTS No 551/13 at junction of Madan Mohan Malviya Road, & 18.30 wide D P Road of village NahurMulund (w), Mumbai, Maharashtra promoted by M/s ChhaganlalKhimji & Co Ltd.

The project is located at 19°56'12.43"N Latitude and 72°56'36.17"E Longitude. The plot area is 16898.20 sqm. The project will comprise of 10 wings with one building of Marathon House, Club House and Temple. FSI area is 56539.56 sqm and total built-up area of 145223.18 sqm. Total 465 flats, 24 shops, offices, Amenity (Retail market), Marathon House, club house & temple shall be developed. Maximum height of the building upto terrace level is 149.00 m. **Cost** of the project isRs. 118.95 Crores. The details of the building is as under:-

<table>
<tr><th colspan="3">Project Proposal</th></tr>
<tr><td>Residential</td><td>Wing A:
B2 + B1 + Lower Ground + Ground+1st to 4th parking floors + 5th service floor + 6th floor podium level + 7th to 43rd floors
Wing B: B2 + B1 +Lower Ground + Ground + 33 upper floors
Wing J: B3 + B2 + B1 + Lower ground + Ground+ 25th (part) upper floors
Flats :465 Nos.</td><td rowspan="2">Extended parking floors of Ground + 3 upper floors over basement connecting all wings.</td></tr>
<tr><td>Commercial</td><td>Wing D,E,F,G,H & I:
B2 + B1 +Lower ground + Ground+ 3upper floors

Shops: 24 Nos.
Offices</td></tr>
<tr><td>Amenity
(Retail Market)</td><td colspan="2">Wing C :
Ground + 1upper floor + Service floor</td></tr>
<tr><td>Marathon House</td><td colspan="2">Ground+ 6th (part) upper floors :Offices</td></tr>
<tr><td>Club House</td><td colspan="2">Ground + 7 upper floors</td></tr>
<tr><td>Temple</td><td colspan="2">Ground</td></tr>
</table>

It is reported that Sanjay Gandhi National Park is located at the distance of 1.0 km. Waterbodies namely Vihar Lake, Tulsi Lake, Powai Lake, Arabian Sea and Thane Creek are located within 10 km distance.

During construction phase, total water requirement is expected to be 33 KLD for workers and 30-40 KLD for construction activity which will be met by M.C.G.M. and tanker respectively. During construction phase the waste water will be disposed to existing municipal sewer line. Temporary sanitary toilets will be provided during peak labor force. During operational phase,

	total water requirement for the project is will be 369 m^3/day. Out of which fresh water requirement from MCGM will be 229 m^3/day and remaining water requirement i.e. 131 m3/day will be met from recycled/treated effluent. Besides, 4 KLD for swimming pool will be required from tanker water of potable quality. Waste water generation will be 314 KLD and treated in 3 STPs of total 630 KL capacity. 136 KLD of treated wastewater will be recycled (131 KLD for flushing, 5 KLD for gardening). About 147 KLD from the whole project will be disposed in to municipal drain. About 1.2 TPD solid wastes will be generated in the project. The biodegradable waste (0.8 TPD) will be processed in OWC and the non-biodegradable waste generated (0.40 TPD) will be handed over to M.C.G.M. The total power requirement during construction phase is 100 kVA and will be met from Local Authority and total power requirement during cooperation phase is 13494 KW and will be met from MSEDCL. Rooftop rainwater of buildings will be collected in 3 RWH tanks of total 154 KL capacity for harvesting after filtration. Parking facility for 1283 four wheelers and 160 two wheelers is proposed to be provided against the requirement of 1282 and Nil respectively (according to local norms). After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects proponent shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) Construction site should be adequately barricaded before the construction begins. (iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code. (iv) 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. (v) 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. (vi) Sewage shall be treated in the STP (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. (vii) As proposed, Rooftop rainwater of buildings shall be collected in 3 RWH tanks of total 154 KL capacity for harvesting after filtration as per CGWB guidelines. (viii) Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 120 m^2 of area shall be provided for solid waste management within the premises which will include area for segregation, composting etc. The inert waste from project will be sent to dumping site of Municipality. E-waste shall be disposed through authorised E-waste processor.re-cyclers. (ix) Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall

	also be based on solar power. (x) A First Aid Room will be provided in the project both during construction and operations of the project. (xi) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site. (xii) 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 sites with the approval of competent authority. (xiii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards. (xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred. (xv) As proposed, no ground water shall be used during construction / operation phase of the project. (xvi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. (xvii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. (xviii) 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 standards be operated only during non-peak hours. (xix) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xx) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from Municipal Water Supplyshall not exceed 229 m^3/day. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

	(iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP. (v) No sewage or untreated effluent water should be discharged into storm water drain. (vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. (viii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (ix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. **(x)** The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.4.8	**Proposed Residential cum Commercial project "Wadhwa Rhodesia" at survey no. 159, Bhiwandi, Railway station, Pritesh compound, Kamatghar, Bhiwandi(East) by M/s. Wadhwa Rhodesia- Environmental Clearance -[F.No.21-1/2017-IA-III][IA/MH/MIS/61428/2016]** *The Committee deferred the project as the project proponent did not attend the meeting.*
13.4.9	**Proposed commercial project - XENON on Plot Bearing C.T.S No. 1406- A/25 – B/ 20 F, Village Malad, Off Link road, Malad West, Maharashtra by M/s. Raheja Universal (Pvt) Ltd- Environmental Clearance –[F.No.21-2/2017-IA-III] [IA/MH/MIS/61429/2016]** M/s. Raheja Universal (Pvt) Ltd has proposed for development of commercial project 'XENON' at Plot Bearing C.T.S No. 1406- A/25 – B/ 20 F, Village Malad, Off Link road, Malad West, Maharashtra. The Latitude is 19°10'28.83"N, 19°10'28.52"N and Longitude is 72°50'8.05"E, 72°50'6.30"E. Total plot area is 7257.00 sqm, FSI area will be 13421.09 sqm and the total built-up area will be 25545.42 sqm. The project consists one building having 127 nos. of shops. (LB + UB + Gr + 3 floors). The maximum height of the buildings will be 17.70 m. **Cost of the project is** Rs. 98.98 Crores. It is reported that Sanjay Gandhi National Park is situated at a distance of 2.51 km. As per the notification of MOEFCC Sr. No. 3645 (E) dated 5.12.2016, the Eco-sensitive Zone (ESZ) is demarcated. *The project is outside the Eco- sensitive zone boundary.* The water requirement during construction phase will be 15 KLD which will be outsourced through Tanker Water. Soak pits and septic tanks will be provided for disposal of waste water. Modular STP will be provided during construction. Temporary sanitary toilets will be provided during peak labor force. During operation phase, the total water requirement will be 24 m^3/day.

	Out of which, fresh water requirement will be 7 m3/day and remaining water requirement (17 m^3/day) will be met from treated/recycled sewage. Waste water generation will be 17 m^3/day and treated in the STP. **Solid Waste Management:** Biodegradable waste will be 42 Kg/day which will be processed in OWC. Area earmarked for solid waste management is 53 m^2. Non-biodegradable waste will be 99 Kg/day which will be handed over to authorized local vendor. **Power Requirement:** 100 KW which will be sourced through Tata Power/Reliance Energy. **Rain Water Harvesting:** Quantity of Rain Water is 11 cum and the capacity of RWH Tanks for harvesting after filtration will be 33 cum (3 days capacity). **Parking Details: For** 4 wheelers requirement according to local norms is 98 nos and will be provided for 266 Nos of 4 wheelers and 45 nos. for 2 wheelers. 26% energy will be conserved by using energy efficient LED, CFL lamps & solar panel, providing energy efficient devices for equipment's and machinery etc. After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance: **I. Construction Phase** (i) The Projects proponent shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. (ii) Construction site should be adequately barricaded before the construction begins. (iii) The building envelope for all air conditioned buildings / spaces shall be complied with the ECBC. Roofs and opaque walls should comply with the maximum assembly U factor or the minimum insulation R-value as well as lighting systems and equipment shall comply with the provisions of Energy conservation building Code. (iv) 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. (v) 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. (vi) Sewage shall be treated in the STP (with tertiary treatment i.e. Ultra Filtration). The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. (vii) As proposed, Rooftop rainwater of buildings shall be collected in 1 RWH tanks of total 33 KL capacity for harvesting after filtration as per CGWB guidelines. (viii) Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed, 53 m^2 of area shall be provided for solid waste management within the premises which will include area for segregation, composting etc. The inert waste from project will be sent to dumping site of Municipality. E-waste shall be disposed through authorised E-waste processor.re-cyclers. (ix) Solar based electric power shall be provided to each unit for atleast two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power. (x) A First Aid Room will be provided in the project both during construction and operations of the project.

	(xi) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site. (xii) 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 sites with the approval of competent authority. (xiii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environmental (Protection) prescribed for air and noise emission standards. (xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred. (xv) As proposed, no ground water shall be used during construction / operation phase of the project. (xvi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. (xvii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. (xviii) 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 standards be operated only during non-peak hours. (xix) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB / SPCB. (xx) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. Ready mixed concrete must be used in building construction. (xxi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc. **II Operation Phase** (i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG sets may be decided with in consultation with State Pollution Control Board. (ii) Fresh water requirement from Municipal Water Supplyshall not exceed 7 m^3/day. (iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports. (iv) 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 Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made

	to mitigate the odour problem from STP. (v) No sewage or untreated effluent water should be discharged into storm water drain. (vi) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2016. (vii) Rain water harvesting structure for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended mater, oil and grease. (viii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. (ix) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. **(x)** The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
13.4.10	**Proposed Slum Rehabilitation Scheme on plot bearing C.T.S No. 1 (pt) of village Ghatkopar, Hanuman Nagar, Tal. Kurla, Ghatkopar (W), Mumbai in Maharashtra by M/s. Lakeview Developers - Environmental Clearance - [IA/MH/MIS/61322/2014] [F.No.21-194/2014-IA.III]** M/s. Lakeview Developers has proposed for development of slum rehabilitation scheme on plot bearing C.T.S No. 1 (pt) of village Ghatkopar, Hanuman Nagar, Tal. Kurla, Ghatkopar (W), Mumbai, Maharashtra (i) The project is located at Latitude : 19º 06'36.11'' N and Longitude :72º 54'59.30''E (ii) The total area of the slum plot is 64,219.67sq.mt. The total construction area of the project is 510205.02 sqm. The proposed FSI area is 190900.08 sqm and non FSI area is 319304.94 sqm. The proposed project comprises of 6 rehab buildings and 2 sale buildings. (iii) The total 6 nos. of rehab buildings comprises of Building With G + 23 Floors, Building no. 1 with 2LG+ G+ 18 Floors, Building no. 2,3 with 3LG+ G+ 23 Floors ,Building no. 4 (A,B,C) with 3LG+ G+23Floors, Building no. 4 (D, E, F) with 3LG+ G+ 22 Floors and Building no. 5 with 2 LG+ Gr +14 (pt)Floors. (iv) The sale building no.1 comprises of Wing A & B with P4 to P7 + St+ 25 Floors, Wing C to F with P6 to P7 + St+ 25 Floors, Wing H,J,L with Gr + P1 to P7 + St + 25 Floors and Wing K,M with Gr + P1 to P7 + St + 24 Floors. The sale building no.2 consists of Wing P to S with B+ Gr + P1 to P3 + St + 25 Floors. The maximum height of the rehab building is 69.75 mt and for sale building is 106.35 mt. (v) The rehabilitation components of scheme will consists of 1431 nos. of residential tenements, 13 nos. of residential /commercial tenements, 37 nos. of shops, 1224 nos. of PAP, 07 nos. existing amenities and 28 nos. of Balwadis. The sale components of scheme will consists of 2675 nos. of residential units & 36 nos of commercial (shops). (vi) The proposed RG area is 4254.42 sqm. Total parking provided will be 442 nos. for rehab and 1469 nos. for sale. (vii) The proposed infrastructure works includes water supply from Municipal Corporation of Greater Mumbai, electric supply from Reliance Energy, sewage treatment through MBBR Technology, storm water drainage system, rain water harvesting system, fire fighting, energy conservation measures, adequate parking space, solid waste management and communication networks etc will be provided.

(viii) The total water requirement during operation phase of the project will be 3645 kld out of which fresh water requirement is 2409 kld and recycled water requirement is 1236 kld. The fresh water supply for domestic purpose will depend on the local municipal supplies i.e. Municipal Corporation of Greater Mumbai water supply whereas treated water from sewage treatment plant will be use for flushing and gardening purpose. The arrangement of rainwater harvesting system will be provided which will reduce the demand of fresh water requirement..

(ix) The total wastewater generated from the project is estimated 3113 KLD. The waste generated will be treated in sewage treatment plant based on MBBR Technology. 6 no. of STP's will be installed. Total 3 STP's for Rehab of capacity (1 x 580 KLD, 1 x 980 KLD and 1 x 85 KLD) and Total 3 STP's for sale of capacity (1 x 700 KLD , 1 x 610 KLD and 1 x 245 KLD). The treated water from sewage treatment plant will be reclaimed and used for flushing and gardening purpose that will result in minimum consumption of fresh water. The balance water will be discharge to municipal drain.

(x) Power requirement: The power requirement during operation period will be about 25959.61 KW for connected load and 18443.99 KW for maximum demand load. The power supply will be from Reliance Energy. There will be also provision for DG set in case of emergency. Total 2 no. of DG sets 750 KVA and 1 DG set of capacity 125 for Rehab and 2 DG set of 600 KVA and 1 Dg set of 750 KVA and 2 DG sets of 1010 KVA for Sale will be provided.

(xi) Solid Waste Management: The total solid waste generated during operation phase will be 13411 kg/day. The biodegradable waste will be 8030 kg/day whereas non-biodegradable waste will be 5381 kg/day. The biodegradable waste will be composted whereas other will be handed over to authorized vendors / recyclers for the final disposal.

(xii) Energy efficient fluorescent tube lights & CFL lamps which give approx. 30% more light output for the same watts consumed and therefore require less no of fixtures and corresponding lower point wiring costs

(xiii) Investment/Cost: The estimated project cost of the project is Rs. 1050 Crores.

(xiv) RWH: 15 nos. of RWH tank of capacity totaling to 575 cum will be provided for Rehab and 14 nos. of RWH tank of capacity totaling to 700 cum will be provide for Sale.

(xv) The project is not located in CRZ area.

(xvi) National Park/ Wild Life Sanctuary in 10 km radius area: Sanjay Gandhi National Park is at distance of 4 km.

(xvii) Parking facility: Parking facility proposed to be provided as under:-

Parking Statement -Rehab Building

Area of Flat	Total Flats	Parking Required	Parking
Below 35 sq.mt.	2705	1 For 8 nos.	338.12 nos.
Total			338.12 nos.
Add 25% visitors (3380.12 x 25%) = 84.53			84.53 nos.
Parking Required (338.12 + 84.53) = 422.65 Says 423 nos.			423 nos.
Parking Proposed			442 nos.

Parking Statement -Sale Building

Sale Bldg - 1& 2 Parking Area Statement			
Area of Flat	**Total Flats (Nos)**	**Parking Required**	**Parking (Nos)**
Below 35 sq.mt	787	1 For 8 Nos.	98.38
35 to 45 sq.mt	0.00	1 For 4 Nos.	0.00

45 to 70 sq.mt	1749	1 For 2 Nos.	874.50
Above 70 sq.mt	139	1 For 1 Nos.	139.00
Total	**2675**		1111.88
Add 25% Visitors (1111.88 x 25%) = 278			278
Residential Parking Required (1111.88+ 278) - A			1390 nos.
Commercial Parking Required -B			64 nos.
Total Parking Required for Sale Bldg (1+2) (A+B)			1454 nos.
Total Parking Proposed for Sale Bldg (1+2) (A+B)			1469 nos.

(xviii) ToR Details: The project was granted Terms of Reference by MoEF&CC vide letter No.21-194/2014-IA.III dated 19th March 2015.

PP informed that Slum Rehabilitation Authority vide letter no SRA/ENG/843/N/MHL/LOI dated 25th January, 2012 has approved the project, wherein total built-up area is mentioned as 1,97682.67 m^2. However, PP submitted the proposal in the MoEFCC for built up area of 5,10,205.02 sqm. The Committee noted that there is huge difference in the built up area.

After detailed deliberation, the Committee sought following additional information:

(i) As per Slum Rehabilitation Authority letter dated 25th January, 2012, approved total built-up area is mentioned as 1,97682.67 m^2. However, as per presentation made before EAC the built up area of proposed project is 510205.02 sqm. Pl clarify the requirement of EC for such a huge built-up area.

(ii) Status of project proposal in SEIAA, Maharashtra.

(iii) Efforts shall be made to increase the car parking for rehab building.

(iv) Layout plan indicating road, greenbelt, drainage, sewer line, STP, solid waste handling area, rain water harvesting structure, etc. in different colour to be furnished.

(v) Layout of parking plan indicating entry and exit points of vehicular movement as well as traffic management plan. Highlight the fire tender pathway.

(vi) Details of source of water supply alongwith permission to be submitted.

(vii) Excess treated sewage disposal plan/scheme to be submitted.

(viii) Prediction of ground level concentration of emissions from stack due to DG sets.

(ix) Efforts shall be made to reduce capacity of DG set and remaining standby power shall be met from solar energy.

(x) At least 2 solar powered lights and one fan shall be provided in each flat. Solar generation shall be connected to the grid.

(xi) Solid waste management plan alongwith area earmarked for solid waste management scheme.

(xii) Action plan for management of construction and demolition waste.

(xiii) Management of excavated soil. Pollution control measures to be taken to control fugitive emission during construction phase including marble /stone cutting.

(xiv) Details energy conservation measures to be taken (all points mentioned in the proposal such as orientation to support reduced heat gain, use of ASHRAE 90.1, use of ECBC compliant envelope measures to be supported through drawings and details in the proposal

(xv) Layout plan indicating Greenbelt alongwith area earmarked to be provided.

The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.

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LIST OF PARTICIPANTS OF EAC (INFRASTRUCTURE-2) IN 13th MEETING OF EAC (INFRASTRUCURE-2) HELD ON 23-25 JANUARY, 2017

Sr. No.	Name & Address	Position	Attendance
1.	Prof. T. Haque	Chairman	P
2.	Shri K. Gowarappan	Member	P
3	Dr. Yashpal Singh	Member	A
7	Dr. S.K. Bhargava	Member	P
5	Dr.Chandrahas Deshpande	Member	A
6	Dr.AyiVaman N. Acharya	Member	P (1st& 2nd Day)
7	Shri A.P. Singh	Member	P (1st& 3rd Day)
8	Ms. MiliMajumdar	Member	A
9	Prof.Dr. Sanjay Gupta	Member	P (1st Day)
MOEF&CC Representative			
10	Sh. A N Singh	Joint Director and Member Secretary	P