

MINUTES OF THE 39th EXPERT APPRAISAL COMMITTEE (INFRASTRUCTURE-2) MEETING HELD ON 26-28 MARCH, 2019

Venue: Conference Hall (Indus), Jal Wing, Ground Floor- 26th & 28th March, 2019
Conference Hall (Sutluj), Jal Wing, Ground Floor- 27th March, 2019
Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 3

Day 1: Tuesday, 26th March, 2019

Time: 10:00 AM

39.1 Opening Remarks of the Chairman

39.2 Confirmation of the Minutes of the 38th Meeting of the EAC held 6-8 February, 2019 at New Delhi.

The minutes of the 38th Meeting of the EAC held 6-8 February, 2019 was confirmed. Following corrections were made in the minutes of 22nd meeting held on 11-13 September, 2017, 35th meeting held on 29-31 October, 2018, 36th meeting held on 26-28 November, 2018, 37th meeting held on 17 January, 2019 and 38th meeting held on 6-8 February, 2019.

Agenda item No.	Minuting	Correction/To be read as
22.5.14 of 22 nd meeting held on 11-13 September, 2017 (IA/BR/NCP/67293/2017)	<i>Project brief point (vi)</i> During operational phase, total water demand of the project is expected to be 2473 KLD and the same will be met by the 1042 KLD Recycled Water. Wastewater generated (1289 KLD) uses will be treated in STP of capacity 1450 KLD and 100 KLD ETP of treated waste water will be recycled.	<i>Project brief point (vi)</i> During operational phase, total water requirement of the project is expected to be 2451 KLD (Fresh water - 1042 KLD & Treated waste water 1409 KLD) and fresh water will be met from ground water. Wastewater generated (1289 KLD) will be treated in STP of 1450 KLD capacity and ETP of 100 KLD capacity. 1409 KLD of treated wastewater (including 378 KLD of HVAC condensate) will be recycled (455 KLD for flushing, 352 KLD for gardening and 602 KLD for HVAC etc.). No water (treated/untreated) will be discharged to municipal drain.
22.5.14 of 22 nd meeting held on 11-13 September, 2017 (IA/BR/NCP/67293/2017)	<i>Project brief point (vii)</i> About 5,142.75 kg/day including 502.5 Kg/day solid waste will be generated in the project.	<i>Project brief point (vii)</i> About 5,142.75 kg/day including 954.66 kg/day bio-medical waste will be generated in the project.
35.4.15 of 35 th meeting held on 29-31 October, 2018 (IA/HR/MIS/80360/2014)	<i>Project brief point (iv)</i> During operational phase, total water demand of the project is expected to be 1075 KLD with fresh water requirement of 804 KLD and use of 539 KLD of recycled water. Freshwater will be sourced from HUDA water supply. Wastewater generated (915 KLD) will be treated in STP of 1100 KLD capacity. 539 KLD of treated wastewater will be recycled and used as 274 KLD for flushing, 265 KLD for horticulture. 284 KLD of treated water will be disposed into municipal drain.	<i>Project brief point (iv)</i> During operational phase, total water demand of the project is expected to be 1343 KLD with fresh water requirement of 804 KLD and use of 539 KLD of recycled water. Freshwater will be sourced from HUDA water supply. Wastewater generated (915 KLD) will be treated in STP of 1100 KLD capacity. 539 KLD of treated wastewater will be recycled and used as 274 KLD for flushing, 265 KLD for horticulture. 284 KLD of treated water will be disposed into municipal drain.
35.4.15 of 35 th meeting held on 29-31 October, 2018 (IA/HR/MIS/80360/2014)	<i>Specific condition point (xvii)</i> As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 st May 2018, and proposed by the project proponent, an amount @0.5% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) for the activities as per OM. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project	<i>Specific condition point (xvii)</i> As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 st May 2018, and proposed by the project proponent, an amount of Rs.2.96 Crores (@0.5% of expansion project cost) shall be earmarked under Corporate Environment Responsibility (CER) for education facilities for nearby communities, solar power, rain water harvesting, plantation in community areas. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional

	proponent.	office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.
36.4.5 of 36 th meeting held on 26-28 November, 2018 (IA/PB/MIS/82000/2018)	<i>Project brief point (iv)</i> During operational phase, total water demand of the project is estimated to be 692 KLD and the same will be met by 472 KLD fresh water from ground water and recycled water. Wastewater generated (580 KLD) uses will be treated in STP of total 700 KLD capacity. About 254 KLD of treated wastewater will be generated from which 202 KLD will be used for flushing, 18 KLD will be used for gardening, and remaining 9 KLD will be discharged to external sewer with prior permission.	<i>Project brief point (iv)</i> During operational phase, total water demand of the project is estimated to be 693 KLD and the same will be met by 473 KLD fresh water from ground water and 220 KLD recycled water. Wastewater generated (580 KLD) will be treated in STP of total 700 KLD capacity. About 522 KLD of treated wastewater will be generated from which 202 KLD will be used for flushing, 18 KLD will be used for gardening, and remaining 302 KLD will be discharged to external sewer with prior permission.
36.4.5 of 36 th meeting held on 26-28 November, 2018 (IA/PB/MIS/82000/2018)	<i>Specific condition point (vii)</i> Fresh water requirement from ground water shall not exceed 472 KLD with prior permission.	<i>Specific condition point (vii)</i> Fresh water requirement from ground water shall not exceed 473 KLD with prior permission.
37.3.5 of 37 th meeting held on 17 January, 2019 (IA/PB/MIS/70365/2017)	<i>Project brief point (vi)</i> Total water requirement will be 80 KLD out of which 40 KLD for domestic and 40 KLD for crash fire tender and cooling purpose and will be met through State Government tube well as per MoU with State Government. No water body is going to be affected by the proposed civil enclave. Airports Authority of India has already submitted application to CGWA for obtaining permission for bore wells at the site.	<i>Project brief point (vi)</i> Total water requirement of the project is expected to be 112.4 KLD (Fresh water - 80 KLD & Treated waste water 32.4 KLD). Out of 80 KLD of fresh water, 40 KLD will be used for domestic purposes and 40 KLD for crash fire tender and cooling purposes. Fresh water will be met through State Government tube well as per MoU with State Government
37.3.5 of 37 th meeting held on 17 January, 2019 (IA/PB/MIS/70365/2017)	<i>Project brief point (vii)</i> 36 KLD sewage will be generated from the proposed project which will be treated in MBBR based STP of capacity 50 KLD. Treated waste water will be reused for HVAC, flushing, landscaping and green belt.	<i>Project brief point (vii)</i> 36 KLD sewage will be generated from the proposed project which will be treated in MBBR based STP of capacity 50 KLD. 32.4 KLD of treated waste water will be reused for landscaping and green belt.
37.3.5 of 37 th meeting held on 17 January, 2019 (IA/PB/MIS/70365/2017)	<i>Project brief point (ix)</i> Approx. 130 kg/day solid waste will be generated from proposed Civil Enclave, which will be collected, segregated and handed over to external agency for disposal as per Solid Waste Management Rule, 2016. Municipal waste collection bins will be placed at strategic locations in the terminal buildings and in parking area. External agency will be hired for disposal of solid wastes as per the provisions of the Solid Waste Management Rule, 2016. Solid waste generated from the proposed Civil Enclave will be transported in close containers.	<i>Project brief point (ix)</i> Approx. 130 kg/day solid waste will be generated from proposed Civil Enclave, which will be segregated as recyclable wastes, biodegradable organic wastes and non-biodegradable inert wastes. Biodegradable wastes (60 kg/day) will be treated in two Organic Waste Converter (OWC) of 300 kg capacity each. Recyclable waste will be sent for recycling and inert waste will be disposed at sanitary landfill site.
37.3.10 of 37 th meeting held on 17 January, 2019 (IA/OR/MIS/89529/2018)	<i>Project brief point (iv)</i> During operational phase, total water demand of the project is expected to be 195 KLD and the same will be met by 135 KLD fresh water from water supply from SAIL, RSP and 60 KLD from recycled water. Wastewater generated (162 KLD) will be treated in 200 KLD STP & 30 KLD ETP capacity. 146 KLD of treated wastewater will be recycled (60 KLD for flushing, 71 KLD for gardening & 15 KLD for HVAC etc.). About 71 KLD will be disposed in to municipal drain (Only in Rainy Season)	<i>Project brief point (iv)</i> During operational phase, total water requirement of the project is expected to be 281 KLD (Fresh water- 135 KLD & Treated waste water 146 KLD) and fresh water will be met from water supply from SAIL, Rourkela Steel Plant. Wastewater generated (162 KLD) will be treated in STP of 200 KLD capacity and ETP of 30 KLD capacity. 146 KLD of treated wastewater will be recycled (60 KLD for flushing, 71 KLD for gardening and 15 KLD for HVAC etc.). About 71 KLD will be disposed into municipal drain, only in rainy season.
38.4.8 of 38 th meeting held on 6-8 February, 2019 (IA/HR/MIS/81492/2018)	<i>Specific condition point (xvii)</i> As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 st May 2018, and proposed by the project proponent, an amount of Rs.0.28 Crores (1% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities as per OM. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	<i>Specific condition point (xvii)</i> As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 st May 2018, and proposed by the project proponent, an amount of Rs.1.83 Crores @1.5% of the project cost, shall be earmarked under Corporate Environment Responsibility (CER) for the activities as per OM. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

<p>38.5.4. of 38th meeting held on 6-8 February, 2019 (IA/TG/NCP/74909/2018)</p>	<p>38.5.4.1. Project Brief Table of project detail - deleted</p>	<p>38.5.4.1. Project Brief Following Table of project detail is added</p> <table border="1" data-bbox="911 286 1484 1303"> <thead> <tr> <th>Description</th> <th>Unit</th> <th>Detail as per Standard TOR granted</th> <th>Amendment sought in ToR</th> </tr> </thead> <tbody> <tr><td>Plot Area</td><td>sqm</td><td>106128.11</td><td>106128.11</td></tr> <tr><td>Cost of project</td><td>Rs.</td><td>970 Crore</td><td>970 Crore</td></tr> <tr><td>Ground Coverage (Achieved)</td><td>sqm</td><td>51833.87 (48.84%)</td><td>46611.75 (43.92%)</td></tr> <tr><td>F.A.R (Proposed/Achieved)</td><td>sqm</td><td>523431.54</td><td>508235.40</td></tr> <tr><td>Other Non-FAR AREA</td><td>sqm</td><td>-</td><td></td></tr> <tr><td>Podium - 1</td><td>Sqm</td><td>31435.04</td><td></td></tr> <tr><td>Podium - 2</td><td>sqm</td><td>27611.03</td><td></td></tr> <tr><td>Podium - 3</td><td>Sqm</td><td>30416.63</td><td></td></tr> <tr><td>Total Podium area</td><td>sqm</td><td>89462.7</td><td>102670.80</td></tr> <tr><td>Basement 1</td><td>Sqm</td><td></td><td>62162.45</td></tr> <tr><td>Basement 2</td><td>sqm</td><td></td><td>62162.45</td></tr> <tr><td>Basement 3</td><td>Sqm</td><td></td><td>36274.70</td></tr> <tr><td>Basement 4</td><td>sqm</td><td></td><td>36274.70</td></tr> <tr><td>Basement 5</td><td>Sqm</td><td></td><td>36274.70</td></tr> <tr><td>Total Basement area</td><td>sqm</td><td>240098.03</td><td>233149.00</td></tr> <tr><td>Built-up Area (FAR + NON-FAR + BASEMENT)</td><td>sqm</td><td>852992</td><td>902796.80</td></tr> <tr><td>Green Area</td><td>sqm</td><td>26710.25</td><td>26710.25 (25% of plot area)</td></tr> <tr><td>No. of Floors</td><td>No.</td><td>4B + 3P + G+17</td><td>5B+3P+G+17</td></tr> <tr><td>No. of Block</td><td>No.</td><td>6</td><td>6</td></tr> <tr><td>Level of Basement (level)</td><td>No.</td><td>4</td><td>5 level</td></tr> <tr><td>Height of building in m</td><td>m</td><td>79.8</td><td>79.8</td></tr> <tr><td>Total Population</td><td>No.</td><td>1229442</td><td>65508</td></tr> <tr><td>Total Power load</td><td>MW</td><td>40.5 MW</td><td>39 MW</td></tr> <tr><td>No. of DG sets</td><td>kVA</td><td>28 X 2000, 1 X 1010 & 11 x 1500</td><td>22 X 2000, 1 X 1010 & 11 x 1500</td></tr> <tr><td>No. of Rain Water Harvesting Tanks</td><td>No.</td><td>8</td><td>10</td></tr> <tr><td>Parking required</td><td>ECS</td><td>8372</td><td>8372</td></tr> <tr><td>Parking Provision</td><td>ECS</td><td>8372</td><td>8372</td></tr> <tr><td>Total water requirement</td><td>KLD</td><td>7084</td><td>4600</td></tr> <tr><td>Fresh water requirement</td><td>KLD</td><td>2935</td><td>2345</td></tr> <tr><td>Treated water</td><td>KLD</td><td>4149</td><td>2255</td></tr> <tr><td>Waste water generation</td><td>KLD</td><td>4787</td><td>2374</td></tr> <tr><td>STP capacity</td><td>KLD</td><td>6150 (1650 + 4500)</td><td>2630 (1350 + 1280)</td></tr> <tr><td>Solid Waste</td><td>Kg/day</td><td>19416</td><td>7229</td></tr> </tbody> </table>	Description	Unit	Detail as per Standard TOR granted	Amendment sought in ToR	Plot Area	sqm	106128.11	106128.11	Cost of project	Rs.	970 Crore	970 Crore	Ground Coverage (Achieved)	sqm	51833.87 (48.84%)	46611.75 (43.92%)	F.A.R (Proposed/Achieved)	sqm	523431.54	508235.40	Other Non-FAR AREA	sqm	-		Podium - 1	Sqm	31435.04		Podium - 2	sqm	27611.03		Podium - 3	Sqm	30416.63		Total Podium area	sqm	89462.7	102670.80	Basement 1	Sqm		62162.45	Basement 2	sqm		62162.45	Basement 3	Sqm		36274.70	Basement 4	sqm		36274.70	Basement 5	Sqm		36274.70	Total Basement area	sqm	240098.03	233149.00	Built-up Area (FAR + NON-FAR + BASEMENT)	sqm	852992	902796.80	Green Area	sqm	26710.25	26710.25 (25% of plot area)	No. of Floors	No.	4B + 3P + G+17	5B+3P+G+17	No. of Block	No.	6	6	Level of Basement (level)	No.	4	5 level	Height of building in m	m	79.8	79.8	Total Population	No.	1229442	65508	Total Power load	MW	40.5 MW	39 MW	No. of DG sets	kVA	28 X 2000, 1 X 1010 & 11 x 1500	22 X 2000, 1 X 1010 & 11 x 1500	No. of Rain Water Harvesting Tanks	No.	8	10	Parking required	ECS	8372	8372	Parking Provision	ECS	8372	8372	Total water requirement	KLD	7084	4600	Fresh water requirement	KLD	2935	2345	Treated water	KLD	4149	2255	Waste water generation	KLD	4787	2374	STP capacity	KLD	6150 (1650 + 4500)	2630 (1350 + 1280)	Solid Waste	Kg/day	19416	7229
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<p>38.4.5. of 38th meeting held on 6-8 February, 2019 (IA/HR/MIS/88577/2016)</p>	<p>38.4.5.1. The project proponent and the accredited Consultant M/s Shivalik Solid Waste Management Ltd. gave a presentation and informed that:</p>	<p>38.4.5.1. The project proponent and the accredited Consultant M/s Wolkem India Limited gave a presentation and informed that:</p>																																																																																																																																								
<p>38.3.9. of 38th meeting held on 6-8 February, 2019 (IA/DL/NCP/73987/2018)</p>	<p><i>Specific condition point (xviii)</i></p> <p>As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, the project proponent shall prepare and implement Corporate Environment Responsibility (CER) for the activities as per OM. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.</p>	<p><i>Specific condition point (xviii)</i></p> <p>As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 1.26 Crores @0.75% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Medical health check up and helping aids for Physical Challenge, Educational Vocational training Centers in nearby villages, water sanitation and environmental programme etc. as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.</p>																																																																																																																																								

39.3 Consideration of Proposals

Agenda item No. 39.3.1.

Greenfield Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWIF) cum Incineration facility at Plot No. 48, Village Rampara, Tehsil Chotila, Dist Surendranagar, Gujarat by M/s Varni Enviro Care Private Limited - Terms of Reference (IA/GJ/MIS/95505/2019; F.No.10-15/2019-IA-III)

39.3.1.1. The project proponent and the accredited Consultant M/s kadam Environmental Consultant gave a detailed presentation on the salient features of the project and informed that:

- (i) M/s Varni Enviro Care Private Limited proposes a Greenfield project for combined Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) and Incinerator Facility at Plot No 48, Village Rampara, Chotila, District Surendranagar, Gujarat.
- (ii) The total plot area is 72,877 sqm (7.287 Ha). The project will comprise of following facilities:

S. No.	Description/Facility	Capacity
1.	TSDF	Total 5,15,500 Lac MTcapacity - 10 years life span - 190 Tonnes per day
2.	Incineration	1.5 Tonnes per hr (Incinerable Liquid and Solid Waste) -10,800 MTPA

- (iii) **Water Consumption:** Total Water Requirement for proposed project is 254 KLD. Waste water generated from domestic and floor washing will be sent to proposed ETP and treated water from ETP will be sent to spray dryer. The scrubber bleed will be treated in ETP and sent to Spray Dryer.
- (iv) **Hazardous Waste:** ETP Sludge and Ash from Incinerator will be disposed within the premises in the TSDF Facility. Discarded bag/drums/barrels will be sold to authorized recyclers. Used oil will be sold to CPCB/SPCB approved recycler. E Waste and MSW will be disposed to authorized facility nearby. The other recyclable non-hazardous waste will be handed over to authorized recyclers.
- (v) **Power:** Total power requirement for proposed project is 1000 KVA and will be supplied by PGVCL. DG sets of 1000 KVA capacity will be installed for emergency backup supply. 250 lit/hr of HSD will be used for DG sets and 450 kg/hr of HSD/FO will be used for Incinerator.
- (vi) Emissions of PM, Pb, SO₂, CO, VOC, NH₃ and NO_x are envisaged from Incinerator. In case of improper quenching, emission of dioxins/furans are also envisaged. The incinerator system is equipped with proper quenching system (Spray Dryer) for control of dioxins along with Cyclones, Bag Filter, Venturi Scrubber, Packed Bed Scrubbers etc. in order to control all emission levels. Adequate stack heights are provided for D.G. Sets and also Incinerator system. Stack emission quality will be maintained as per the SPCB norms.
- (vii) Greenbelt: ~17,810 sqm (24.44%) of total plot area will be covered under green belt.
- (viii) Project Cost: The total investment for the project is Rs. 25 Crores.

39.3.1.2. During the deliberation, the EAC noted the following:-

- (i) The proposal is for grant of Terms of Reference to the project 'Greenfield Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWIF) cum Incineration

facility at Plot No. 48, Village Rampara, Tehsil Chotila, Dist. Surendranagar, Gujarat by M/s Varni Enviro Care Private Limited.

- (ii) The project/activity is covered under category A of item 7(d) 'Common hazardous waste treatment, storage and disposal facilities (TSDFs)' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level by sectoral EAC.

39.3.1.3. *The Committee During deliberation noted that as per submission given by the project proponent, the capacity of TSDF is total 5,15,500 Lac MT capacity - 10 years life span - 190 Tonnes per day. However, the capacity was not in consonance with the per day capacity i.e. 190 Tonnes per day. In addition to it, it was noted that site-1 at village Rampara, which is proposed for the project is in the vicinity of the Rampara Reserve Forest (0.3 km). Committee also noted that nearest habitation is 0.3 km away from the site which is not in accordance with the CPCB Criteria. As per the CPCB Criteria, the site should be 500 m from notified habituated area. However, alternative site-2 at village Surai is 7.54 km from Fairy dense forest. The Committee asked the project proponent to re-examine the proposal for its site suitability. The Committee asked the project proponent to submit the following:*

- (i) Submit revised Form-1 mentioning complete details of the facility such as per day capacity, total capacity of TSDF and life span.
- (ii) Submit revised details of alternative site since proposed site is not in accordance with the CPCB Criteria.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Agenda item No. 39.3.2.

“Holistic Development of Surat Airport Including Extension of Terminal Building, Apron and Construction of Parallel Taxi Track” at Surat International Airport by M/s Airport Authority of India, Surat - Terms of Reference

(IA/GJ/MIS/97177/2019; F.No.10-16/2019-IA-III)

39.3.2.1. The project proponent and the accredited Consultant M/s Gaurang Environmental Solutions Pvt. Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) Surat Airport is located on Magdalla-Dumas Road towards the famous Dumas Beach on the South-West part of the city, approximately 20 kms from the city centre. The Airport currently serves Surat city with a population of 6 million and serves the South Gujarat region with an overall population of 12 million.
- (ii) The airport renovation consisting of periphery walls, to runway repair & extension, aero-bridge installation etc.; pending few tasks almost all of the measures for a safe & secure functioning of the airport, more or less has now been achieved. Hopefully with Extended Passenger Terminal being added in the next two years, Surat Airport seems to be taking to wings over the seven seas and should be all set to achieve a fully fledged International Status by year 2019 with a capacity to handle more than a Million passengers yearly and a ranking among top 30 busy Airports in India.

- (iii) The area earmarked for the proposed extension of terminal building is about 17,035 sqm, for Apron (including Shoulder, GSE & Shoulder converted to apron) is 34,940 sqm and for construction of Parallel Taxi Track (including Shoulder) is 91,535 sqm within the existing airport premises. There is no additional requirement of land for the proposed developmental works. The construction work will be done in the land abutting the existing airport. The details of proposed expansion are as follows:

S No.	Description	Details
1.	Location	Latitude: 21° 7' 3.57" N, Longitude: 72° 44' 42.93" E
2.	Plot area	1,06,770 sqm
3.	Ground Coverage (achieved)	13,710 sqm (12.9%) (Terminal + Canteen + ESS)
4.	Total Built Up Area	26,250 sqm (25,520 sqm+130 sqm+600 sqm)
5.	Green Area	35,950 sqm (33.7%)
6.	Road and Open Area (excluding surface parking area)	41,385 sqm (38.7%)
7.	Surface parking Area	15,725 sqm (14.7%)
8.	No. of Floors	G +1
9.	Height of Building	17.8 m
10.	Area of Apron ((including Shoulder, GSE & Shoulder converted to apron)	34,940 sqm
11.	Parallel Taxi Track Area (including Shoulder)	91,535 sqm

- (iv) The daily consumption of water in Terminal Building during operation phase for domestic use will be about 531 KLD out of which 301 KLD will be fresh water and 230 KLD will be recycled/treated water. The water requirement for Landscaping, HVAC & DG cooling will be about 250 KLD (treated water). The water will be met through Surat Municipal Corporation (SMC) water supply.
- (v) During operation phase, wastewater generated from Airport will be treated in Sewage Treatment Plant (STP) comprising primary, secondary and tertiary treatment facilities. The treated wastewater from the STP will be used for flushing, landscaping and HVAC & DG cooling.
- (vi) Solid waste generated from the airport mainly comprises of food waste and garbage waste. Further, small quantities of sludge from STP and other waste are being generated. The solid waste generated will be first segregated as plastic, glass, paper, and other waste separately and disposed off as per applicable Rules
- (vii) Employment Generation: The proposed project will provide direct employment during construction & operation phase. Local workers will be hired from the nearby areas during construction phase/workers will be sourced by construction contractor. While during the project operation stage for the purposes of day-today professional and maintenance works, additional staff will be required.

39.3.2.2. During deliberations, the EAC noted the following:-

- (i) The proposal is for grant of Terms of Reference to the project "Holistic Development of Surat Airport Including Extension of Terminal Building, Apron and Construction of Parallel Taxi Track" at Surat International Airport by M/s Airport Authority of India, Surat.
- (ii) The project/activity is covered under category A of item 7(a) 'Air Ports' of the Schedule to the EIA Notification, 2006 and its amendments, and requires appraisal at Central level by sectoral EAC.

39.3.2.3. *The Committee during discussion noted that The area earmarked for the proposed extension of terminal building is about 17,035 sqm, for Apron (including Shoulder, GSE & Shoulder converted to apron) is 34,940 sqm and for construction of Parallel Taxi Track (including Shoulder) is 91,535 sqm within the existing airport premises and there is no additional requirement of land for the proposed developmental works. The Committee also noted that as per information provided by the project proponent, Hazira Bird Sanctuary is 11.4 Km towards WSW from Centre of Runway and as per Form-1 submitted by the project proponent, Wildlife Clearance will be required for the project for which application is yet to be submitted.*

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) Submit status of clearance from National Board for Wild Life (NBWL).
- (iii) Submit valid Consent to Operate (CTO) for the existing Airport and compliance to the conditions of the CTO and authorization for the existing Airport.
- (iv) The EIA will discuss the compliance to the Pollution Control Laws and the notifications under the E.P. Act 1986 and get a certified report from the Pollution Control Board.
- (v) The E.I.A. will give a justification for land requirements along with a comparison to the guidelines established by the Airport Authority of India/Ministry of Civil Aviation in this regards.
- (vi) A toposheet of the study area of radius of 10 km 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).
- (vii) Layout maps of proposed project indicating runway, airport building, parking, greenbelt area, utilities etc.
- (viii) Cost of project and time of completion.
- (ix) Submit Fire NOC for existing project from concerned Department.
- (x) The impacts of demolition and the activities related thereto shall be examined and a management plan drawn up to conform to the Construction and Demolition rules under the E.P. Act, 1986.
- (xi) The report shall examine the details of excavations, its impacts and the impacts of transport of excavated material. A detailed Management Plan shall be suggested.
- (xii) Detail plan for 'deplane waste' and impact of noise on the sensitive environment specially the wildlife sanctuaries and national parks.
- (xiii) An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA. The Plan to be implemented to the satisfaction of the State

Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.

- (xiv) The E.I.A. should specifically address to vehicular traffic management as well as estimation of vehicular parking area inside the Airport premises.
- (xv) 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.
- (xvi) 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) 2017 of the Bureau of Energy Efficiency, Government of India. The energy system includes air conditioning systems, indoor lighting systems, water heaters, air heaters and air circulation devices.
- (xvii) Details shall be provided regarding the solar generation proposed and the extent of substitution, along with compliance to the ECBC rules.
- (xviii) Details of emission, effluents, solid waste and hazardous waste generation and their management. Air quality modeling and noise modeling shall be carried out for the emissions from various types of aircraft.
- (xix) The impact of aircraft emissions in different scenarios of idling, taxiing, take off and touchdown shall be examined and a management plan suggested.
- (xx) The impact of air emissions from speed controlled and other vehicles plying within the Airport shall be examined and management plan drawn up.
- (xxi) The management plan will include compliance to the provisions of the MSW Rules, 2016.
- (xxii) A detailed management plan, drawn up in consultation with the competent District Authorities, shall be submitted for the regulation of unauthorized development and encroachments within a 05 Km radians of the Airport.
- (xxiii) The E.I.A. will also examine the impacts of construction and operation of the proposed STP and draw up a detailed plan for management including that for odour control.
- (xxiv) 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.
- (xxv) Noise monitoring and impact assessment shall be done for each representative area (as per the Noise Rules of MoEF&CC). A noise management plan shall be submitted to conform to the guidelines of the MoEF&CC and the DGCA.
- (xxvi) Noise monitoring shall be carried out in the funnel area of flight path.
- (xxvii) Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- (xxviii) Ground water abstraction and rain water recharge shall be as prescribed by the CGWA. A clearance/permission of the CGWA shall be obtained in this regards.
- (xxix) Details of fuel tank farm and its risk assessment.

- (xxx) The E.I.A. should present details on the compliance of the project to the Fly Ash notification issued under the E.P. Act of 1986.
- (xxxi) The report should give a detailed impact analysis and management plan for handling of the following wastes for the existing and proposed scenarios.
 - (a) Trash collected in flight and disposed at the Airport including the segregation mechanism.
 - (b) Toilet wastes and sewage collected from aircrafts and disposed at the Airport.
 - (c) Maintenance and workshop wastes.
 - (d) Wastes arising out of eateries and shops situated within the airport.
- (xxxii) 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.
- (xxxiii) Submit an affidavit signed by the Board of Directors, that there is no violation and no part of the project has been implemented without Environmental Clearance.
- (xxxiv) 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.
- (xxxv) Plan for Corporate Environment Responsibility (CER) as specified under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018 shall be prepared and submitted along with EIA Report.
- (xxxvi) A tabular chart with index for point wise compliance of above ToR.

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.

Agenda item No. 39.3.3.

National Institute of Homeopathy at Sec-A8, Narela, Delhi by Ministry of Ayush, Government of India - Reconsideration for Environmental Clearance

(IA/DL/NCP/74957/2018; F.No.21-39/2018-IA-III)

39.3.3.1. The EAC noted the following:-

- (i) The proposal is for grant of environmental clearance to the project National Institute of Homeopathy at Sec-A8, Narela, Delhi by Ministry of Ayush, Government of India in a total plot area of 40,470 sqm and total construction (built-up) area of 49,082 sqm.
- (ii) The project/activity is covered under item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its amendments, and requires appraisal at State level. However, due to non-existence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central level by sectoral EAC.

- (iii) The proposal was earlier considered by Expert Appraisal Committee (Infra-2) in its 31st meeting held during 29-30 May, 2018.
- (iv) Project Proponent has submitted the additional information on Ministry's website on 20.02.2019.

39.3.3.2. *The project proponent informed that as per approved plan by MCD, there are some differences in built-up area as approved by MCD and as submitted in Form-I at the time of EC application. Block wise built-up area difference between approved drawing and the submitted drawing at the time of EC application are as follows:*

S. No.	Block name	Built-up area statement (As submitted with EC application dated 27.04.2018) in sqm	Built-up area statement (As per approved drawing from MCD) in sqm	Difference in area in sqm
1.	Hospital Block	12081	12443	362 (increase)
2.	Academic Block	7585	8073	488 (increase)
3.	Hostel	6903	6903	No change
4.	Residential	11971	11971	No change
5.	Services block	10542	10796	254 (increase)
Total Built up area		49082	50186	1104 (increase)
6.	Green Area	16415 (40.57%)	15850 (39.17%)	565 (decrease)

*Besides, change in area there is no change in water requirement, power requirement and other requirement. The project proponent also submitted undertaking that the construction of the proposed project shall be carried out in accordance with BEE-ECBC-2017. As informed by the project proponent no tree cutting is proposed in the proposed project. The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure- 8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) The project proponent shall obtain water supply assurance/permission from Delhi Jal Board, before commencement of work.
- (v) As proposed, fresh water requirement from MCD supply shall not exceed 285 KLD.
- (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,

HVAC and horticulture purposes. Excess treated water shall be discharged to municipal drain.

- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 18 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area 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.
- (xi) Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable.
- (xii) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xiii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 15,850 sqm. (39.17% of total area) area shall be provided for green area development.
- (xiv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs 2.95 Crores shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as electrification including solar power, solid waste management facilities, rain water harvesting, avenue

plantation and free yoga/meditation camp programme for positive health. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.3.4.

Proposed Revised Master Plan development of Kattupalli Port by Marine Infrastructure Developer Private Limited (MIDPL) at Kattupalli, Ponneri Taluka, Tiruvallur District, Tamil Nadu by Marine Infrastructure Developer Private Limited (MIDPL) - Reconsideration for Terms of Reference

(IA/TN/MIS/85584/2018; F.No.10-7/2019-IA-III)

39.3.4.1. The EAC noted the following:-

- (i) The proposal is for grant of Terms of Reference to the Proposed Revised Master Plan development of Kattupalli Port by Marine Infrastructure Developer Private Limited (MIDPL) at Kattupalli, Ponneri Taluka, Tiruvallur District, Tamil Nadu by Marine Infrastructure Developer Private Limited (MIDPL).
- (ii) The project/activity is covered under category 'A' of item 7 (e) i.e. 'Ports, harbours, break waters, dredging' of the schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level by sectoral EAC.
- (iii) The proposal was earlier considered by Expert Appraisal Committee (Infra-2) in its 38th meeting held during 6-8 February, 2019.
- (iv) Project Proponent has submitted the additional information on Ministry's website on 20.02.2019.

39.3.4.2 *The Committee noted that in its earlier meeting, the project proponent was asked to submit point-wise reply/comments on each of the point/observation raised in the complaint/representations with scientific/evidential supports. The Committee deliberated upon the point-wise reply/comments submitted by the project proponent on each of the point/observation raised in the complaint/representations. The complaints were received mainly from:*

- Fishermen Panchayat Sabha, Kattupallikupan vide letter dated January 18, 2019
- Thirumalai Nagar Fishermen Panchayat Sabha, Palaverkadu through vide letter dated January 18, 2019 (Repetition of same points)
- Vairavankuppam Fishermen Panchayat Sabha vide letter dated January 18, 2019 (Repetition of same points)
- Mr. Nityanand Jeyaraman through Email dated January 30, 2019
- Mr. Rahul Sridharan through Email dated February 04, 2019
- CAG (Citizen consumer and civic action group) vide letter dated February 05, 2019

The project proponent has submitted point-wise reply on the following major issues raised in the representations:

- Site Selection including Economic Viability
- Ecologically Sensitive Areas
- Ennore creek, Pulicat lake, Karingali Creek, Kosasthalaiyar river and Wetlands

- Pollution and Environmental Quality
- Shoreline Change, Erosion, Reclamation, Ennore Shoals
- Fishing Livelihood, Fishing grounds and Fishing Villages
- Land Ownership & Common Resources and CSR programmes

The Committee deliberated upon the information provided by the project proponent. The Committee further noted that there are some other representations including earlier are again received in the Ministry and to the Committee Chairman and Members also. In view, the committee recommended that a sub-committee consisting of Dr. H. C. Sharatchandra, Dr. V. S. Naidu and Dr. M. V. Ramana Murthy, Member of the EAC (Infra-2) may conduct a site visit and give its report for further deliberation.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the receipt of report from sub-committee.

Agenda item No. 39.3.5.

Integrated Municipal Solid Waste Processing facility in Rewari Cluster at Near Ramsinghpura Village, Rewari, Haryana by M/s Rewari Municipal Council - Reconsideration for Terms of Reference

(IA/HR/MIS/69625/2017; F.No.10-56/2017-IA-III)

39.3.5.1. The EAC noted the following:-

- (i) The proposal is for grant of Terms of Reference to the project 'Integrated Municipal Solid Waste Processing facility in Rewari Cluster at Near Ramsinghpura Village, Rewari, Haryana by M/s Rewari Municipal Council.
- (ii) The project/activity is covered under category 'B' of item 7 (i) i.e. Common Municipal Solid Waste Management Facility (CMSWMF). However, due to applicability of general Conditions as Inter State Boundary of Haryana and Rajasthan lies at a distance of 6.44 km from project site, the proposal falls under Category 'A'.
- (iii) The Proposal was earlier considered in 24th meeting of EAC held during 30-31 October, 2017, 30th meeting held during 18-20 April, 2018 and 32nd meeting held during 2-4 July, 2018, wherein the Committee sought additional information.
- (iv) The Project Proponent submitted/uploaded the additional information on 29.03.2018, 21.05.2018 and 11.02.2019 on Ministry's website.

39.3.5.2 *During deliberation, the project proponent informed that the project site is new and hence no authorization and consent from the State Pollution Control Board is required. 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&CC criteria and form part of the EIA report.

- (iii) The EIA would include a separate chapter on the conformity of the proposals to the Municipal Solid Waste Management Rules, 2016 and the Construction and Demolition Waste Management Rules, 2016 including the sitting criteria therein.
- (iv) An integrated plan of operation including the segregation of wastes at the household level and its transportation to the site shall be submitted. List of waste to be handled and their source along with mode of transportation.
- (v) Details of various waste management units with capacities for the proposed project. Details of utilities indicating size and capacity to be provided.
- (vi) The EIA would give complete details of the SLF (Sanitary Landfill Facility), Compost Plant, RDF Unit, Leachate Evaporation Tanks, ETP and its impact.
- (vii) 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.
- (viii) Waste management facilities should maintain safe distance from the nearby pond.
- (ix) Methodology for remediating the project site, which is presently being used for open dumping of garbage.
- (x) Layout maps of proposed solid waste management facilities indicating storage area, plant area, greenbelt area, utilities etc.
- (xi) Details of air emission, effluents generation, solid waste generation and their management.
- (xii) Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- (xiii) Process description along with major equipments and machineries, process flow sheet (quantitative) from waste material to disposal to be provided.
- (xiv) Hazard identification and details of proposed safety systems.
- (xv) Details of Drainage of the project upto 5 km 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.
- (xvi) Details of effluent treatment and recycling process.
- (xvii) Action plan for measures to be taken for excessive leachate generation during monsoon period.
- (xviii) Detailed Environmental Monitoring Plan.
- (xix) Report on health and hygiene to be maintained by the sanitation worker at the work place.
- (xx) 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.
- (xxi) 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.

- (xxii) A tabular chart with index for point wise compliance of above ToRs.
- (xxiii) Plan for Corporate Environment Responsibility (CER) as specified under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018 shall be prepared and submitted along with EIA Report.

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.

Agenda item No. 39.3.6.

Expansion of Group Housing Colony Project at Sector-64, Sonipat, Haryana by M/s TDI Realcon Pvt Ltd - Reconsideration for Environmental Clearance

(IA/HR/MIS/80507/2013; F.No.21-105/2018-IA-III)

39.3.6.1. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Expansion of Group Housing Colony Project at Sector-64, Sonipat, Haryana by M/s TDI Realcon Pvt. Ltd.
- (ii) The project/activity is covered under category 'B' of item 8(b) 'Townships and Area Development projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Haryana, the proposal has been appraised at Central Level.
- (iii) Previous Environment Clearance granted by SEIAA, Haryana vide letter no. SEIAA/HR/2013/1551 dated 24.12.2013 for plot area of 1,16,974.20 sqm and built-up area 2,59,716.351 sqm.
- (iv) Terms of Reference (ToR) granted by SEIAA, Haryana vide letter No. SEIAA/2018/395 dated 15.05.2018.
- (v) The proposal was earlier considered by Expert Appraisal Committee (Infra-2) in its 35th meeting held during 29-31 October, 2018.
- (vi) Project Proponent has submitted the additional information on Ministry's website on 24.01.2019.

39.3.6.2. *The Committee during discussion noted that the in the earlier meeting the project proponent was asked to submit the verification report of RO, MoEFCC/RO, HSPCB that all the necessary steps have been taken or are being taken as per the conditions of the Environmental Clearance granted to the earlier proposal. The project proponent has submitted the verification report issued by HSPCB letter No. HSPCB/SR/2019/4456 dated 18.01.2019 which inter-alia mentioned that necessary steps are being taken by the project proponent in the above said site premises as per inspection. But the unit has submitted six monthly reports on the status of compliance of EC conditions up to 31.12.2017. The proponent has informed the Committee that they have already submitted six monthly compliance reports for June 2018 and December, 2018 to HSPCB.*

The Committee noted that as per revised water balance, during operational phase, total water demand of the project is expected to be 890 KLD out of which fresh water demand 665 KLD will be sourced from HUDA. The total waste water generation will be 757 KLD and treated in Sewage Treatment Plant (STP) of 1000 KLD capacity. 472 KLD of treated water from STP will be reused in flushing and horticulture purposes and excess treated water will be discharge to the Sewer line. The Committee suggested the project proponent to explore alternative use of excess treated water.

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at Annexure- 8 of the minutes), while considering for accord of environmental clearance:

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) As proposed, fresh water requirement from HUDA supply shall not exceed 665 KLD.
- (v) 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 and horticulture purposes. Excess treated water shall be discharged to municipal drain.
- (vi) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (vii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (viii) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 29 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (ix) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate

area 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.

- (x) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xi) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 35,326.21 sqm. (30.2% of total area) area shall be provided for green area development.
- (xii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 1.87 Crores shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as education facilities for nearby communities, solar power, rain water harvesting and plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.3.7.

Office Complex at Plot No. 68 and 68/1 Najafgarh Road, Delhi by M/s D.D. Properties Pvt. Ltd - Reconsideration for Environmental Clearance

(IA/DL/MIS/85210/2008; F.No. 21-136/2018-IA-III)

39.3.7.1. The EAC noted the following:-

- (i) The proposal is for grant of environmental clearance to the project "Office Complex at Plot No. 68 and 68/1 Najafgarh Road, Delhi by M/s D.D. Properties Pvt Ltd in a total plot area of 11,241.8 sqm and total construction (built-up) area of 36,145.118 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.
- (iii) The proposal was earlier considered by Expert Appraisal Committee (Infra-2) in its 36th meeting held during 26th November, 2018.

- (iv) During deliberation, the Committee was informed that the project was earlier granted Environment Clearance by SEIAA, Delhi vide letter no. F. No. 24/DPCC/SEIAA/1186 dated 22nd July, 2010 for Plot area 11,643 sqm and Built-up area 39,789.21 sqm. CTE was obtained for the project from Delhi Pollution Control Committee vide letter no. DPCC/CMC/2013/32949 dated 14.10.2013. Thereafter, the construction work was started and approx, 32,530 sqm built-up area has been constructed at site. The validity period of earlier Environment Clearance expired on 21st July, 2017 following which the construction work was stopped at site. Since the validity of earlier EC had expired, an application was submitted to MoEF&CC on seeking a fresh Environment Clearance for the project. Therefore, as per the MoEF&CC circular no. F.No. J-11011/618/2010-IA-II (I) dated 30th May, 2012 certified compliance report is not applicable for ongoing/existing operation projects.

The Committee was not satisfied with the submission of the project proponent and asked the project proponent to submit the Certified Compliance Report issued by the MoEF&CC, Regional Office or concerned Regional Office of Central Pollution Control Board or the Member Secretary of the respective State Pollution Control Board for the conditions stipulated in the earlier environmental clearance issued for the project along with an action taken report on issues which have been stated to be partially complied or non/not complied.

- (v) Project Proponent has submitted the additional information on Ministry's website on 16.02.2019.

39.3.7.2. *The EAC deliberated on the proposal including certified compliance report letter No. IV/Parya/N.D./4-874/2010/279 dated 15.02.2019 issued by the MoEF&CC's Regional Office (CR), Lucknow. In the compliance report, it has inter-alia mentioned that during the day of visit, no developmental activity found at site and PAs during discussion had also informed that no work done at site since June, 2017, as the validity of EC was expired in June, 2017. As per recommendation in the Certified Compliance Report, the compliance status could not be judged as the project was not operational during the site visit.*

*The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.

- (iv) The project proponent shall obtain water supply assurance/permission from Delhi Jal Board, before commencement of work.
- (v) As proposed, fresh water requirement from DJB supply shall not exceed 16 KLD.
- (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, and horticulture purposes. Excess treated water shall be discharged to municipal drain.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 5 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 80 sqm area 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.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 1,686.27 sqm (15% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 1.395 Crores shall be

earmarked under Corporate Environment Responsibility (CER) for the activities such as education facilities for nearby communities, skill development, rain water harvesting, plantation in community areas and health facilities. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.3.8.

Expansion of Jabalpur Airport at Villages Dumna, Gadheri and Chakdehi, District Jabalpur, Madhya Pradesh by M/s Airports Authority of India - Reconsideration for Environmental Clearance

(IA/MP/MIS/41831/2016; F. No.10-12/2016-IA-III)

39.3.8.1. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project 'Expansion of Jabalpur Airport at Villages Dumna, Gadheri and Chakdehi, District Jabalpur, Madhya Pradesh by M/s Airports Authority of India.
- (ii) The project/activity is covered under category 'A' of item 7 (a) i.e. 'Airports' of the schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level.
- (iii) ToR was granted by the Ministry vide letter No. 10-12/2016-IA-III dated 26.03.2016.
- (iv) Public hearing of the project was carried out by Madhya Pradesh Pollution Control Board on 8th January 2018 at the airport site premises.
- (v) The proposal was considered by the EAC (Infra-2) in its 29th meeting held during 20th March, 2018 and 33rd meeting held during 9-10 August, 2018, wherein the EAC noted that the copy of Consent to Operate for existing project has not been obtained from MPPCB and submitted by the project proponent. In addition to it was also brought to the notice of EAC that the project is not having Fire NOC. The Committee asked the project proponent to submit following documents/certificates:
 - a. Submit revised water balance detail including existing and proposed requirement.
 - b. Submit Fire NOC for existing project from concerned Department.
 - c. Submit copy of valid Consent to Operate issued by State Pollution Control Board for existing airport.
 - d. Submit copy of CGWA clearance for the existing project.
 - e. A wild life management plan for the area duly endorsed by the D.F.O. which would indicate the incidence of wild life, the probable risks, historical evidence of past accidents and a management plan.
 - f. Plan for Corporate Environment Responsibility (CER) as specified under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018 shall be submitted.
- (vi) The Project Proponent submitted/uploaded the additional information on 17.7.2018 and 23.02.2019 on Ministry's website.

39.3.8.2. *The Committee deliberated upon the information provided by the project proponent and noted that revised water balance, fire NOC for the existing project and Wildlife Management Plan for the area duly endorsed by the Chief Wild Life Warden was not*

proper/adequate. The Committee asked the project proponent to submit it again. The project proponent has submitted requisite information before the EAC on 28.03.2019. The Committee found that the information submitted is adequate. The Committee also noted that Consent to Operate for the existing Airport has been granted by M.P. Pollution Control Board vide Consent No. AW-49059 and is valid upto 31.10.2019.

The Committee noted that as per revised water balance, during operational phase, total water demand of the project is expected to be 164 KLD out of which fresh water demand 100 KLD will be sourced from groundwater/bore wells for which the project proponent has already applied to CGWB for necessary approval. The total waste water generation will be 64 KLD and treated in Sewage Treatment Plant (STP). The treated water from STP will be reused in landscaping/flushing (54 KLD) and gardening (10 KLD). As proposed, no treated water will be discharged to the Sewer line.

*The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-1** of the minutes), while considering for accord of environmental clearance:*

- (i) The land acquisition / purchase shall be in conformity to the LARR Act, 2013 and any other laws and regulations governing land acquisition.
- (ii) Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities shall be obtained.
- (iii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (iv) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.
- (v) As proposed, total fresh water requirement of 100 KLD will be met through ground water with prior permission from CGWA. No ground water shall be extracted without prior permission from CGWA.
- (vi) Aircraft maintenance, sensitivity of the location where activities are undertaken, and control of runoff of potential contaminants, chemicals etc shall be properly implemented and reported.
- (vii) Sewage Treatment Plant of 200 KLD capacity shall be provided with SBR Technology to treat the wastewater generated from the airport. Treated water will be reused for green belt development. As proposed the Airport will operate on zero liquid discharge principle.
- (viii) During construction and operational phase AAQ monitoring should include PM₁₀, PM_{2.5}, SO₂, NO_x, NH₃, CO, CH₄ and Benzene.
- (ix) During airport operation period, noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. A monitoring station for ambient air and noise levels shall be provided in the village nearest to the airport.
- (x) Traffic Management Plan as submitted shall be implemented in letter and spirit. Apart, a

detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- (xi) 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.
- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. The landscape planning should include plantation of native species. The plantation species should be carefully chosen to avoid bird nesting and to improve pollution control and noise control measures. Water intensive and/or invasive species should not be used for landscaping. As proposed, total 41,336.10 sqm area shall be provided for green belt development and landscaping.
- (xiii) A water security plan to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and recharge of ground water in at least two villages and schools, as part of the C.S.R. activities.
- (xiv) The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013.
- (xv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of 1.23 Crore i.e. @0.75% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Borewells and handpumps, surrounding villages for facilitating drinking water supply, Support to local government, schools w.r.t. sanitation and health, Construction of public toilets in the surrounding villages, strengthening of village roads through State Govt. and Installation of street lights in nearby villages as per requirement. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent

Agenda item No. 39.3.9.

Proposed Expansion of Hotel at Plot No.1, Wazirpur District Center, Delhi by M/s Asrani Inns and Resorts Pvt Ltd - Environmental Clearance

(IA/DL/NCP/75424/2018; F.No.21-19/2019-IA-III)

39.3.9.1. The project proponent and the accredited Consultant M/s Ascenso Enviro Pvt. Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project is located at 28°41'39.98"N Latitude and 77° 8'48.98"E longitude.

- (ii) This is an expansion Project. The Project earlier has received environmental clearance from SEIAA, Delhi vide EC letter No. DSPCC/SEAC/199/SEIAA/72/2013 Dated 01.08.2014.
- (iii) The total plot area is 7,220.40 sqm. The total built up area is 40,637.23 sqm. Maximum height of the building is 69.65 m. The details are as follows:

S. No.	Particulars	Area in sqm
1	Total Plot Area	7,220.40
2	Built-up Area as per previous EC (FAR+NON FAR+ ALL BASEMENT +ALL SERVICES)	27,867.49
3	Built-up Area after Expansion (FAR+NON FAR+ ALL BASEMENT +ALL SERVICES)	40,637.23
4	Total Permissible Ground Coverage @ 50% of plot area	3,610.20
5	Achieved Ground Coverage @ 40.72 % of Plot Area	2,940.14
6	Permissible FAR @ 2.15 of Plot area (At the time of Allotment)	15,500.00
7	After New Notification FAR increased to 3.75 (Max.)	27,076.5
8	Total FAR achieved @ less than 3.75	16,180.415
9	Total NON FAR (ALL BASEMENT +ALL SERVICES) after Expansion	24,456.808
10	Built up Area after Expansion (FAR+NON FAR+ ALL BASEMENT +ALL SERVICES)	40,637.23
11	Increase in Built-up Area including (FAR+NON FAR+SERVICES)	12,769.733

- (iv) During construction phase, total water requirement is 20 KLD which will be met from treated water from CSTP/Private water tankers. During the construction phase, Soak pits and septictanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.
- (v) During operational phase, total water demand of the project is expected to be 523 KLD and the same will be met by the 283 KLD fresh water from NDMC and 240 KLD recycled water. Total 282 KLD wastewater generated will be treated in STP of 300 KLD capacity and 60 KLD ETP (Common ETP for Plot-1 & Plot-2).
- (vi) The Total solid waste generation from the project is 696.45 kg/day. The project adopts a systematic approach for solid waste collection and disposal. Solid waste generated from the project will be collected properly and managed as per Solid Waste Management Rules, 2016. The domestic solid waste generated by the occupants of the Guest Rooms, Service Apartments, staff and Commercial & Community Population, pertains to the two categories, Bio-degradable and Non-biodegradable. These solid wastes will be collected separately by putting three types of separate bins at the source of generation. For the biodegradable waste green bins will be provided, for the recyclable waste white bins and for the non-biodegradable waste black bins will be provided. For wet garbage, Organic Waste Converter will be installed within the complex.
- (vii) The total power requirement is 1980 KW. The source of power supply is BSES, Rajdhani Pvt. Ltd.
- (viii) Rooftop rainwater of buildings will be collected in total 4 Nos. RWH pits.
- (ix) The total parking proposed is 490 ECS.
- (x) It is not located within 10 km of Eco Sensitive areas.
- (xi) There is no court case pending against the project.

- (xii) Investment cost of the project is Rs. 200 Crore.
- (xiii) Employment potential: 250 peoples
- (xiv) Benefits of the project: Social, Economical and Environmental

39.3.9.2. The EAC noted the following:-

- (i) The proposal is for grant of environmental clearance to the project Proposed Expansion of Hotel at Plot No.1, Wazirpur District Center, Delhi by M/s. Asrani Inns and Resorts Pvt Ltd in a total plot area of 7,220.40 sqm and total construction (built-up) area of 40,637.23 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.3.9.3 *The Committee noted that the Project has received environmental clearance from SEIAA, Delhi vide EC letter No. DSPCC/SEAC/199/SEIAA/72/2013 Dated 01.08.2014. The Committee deliberated upon the Certified Compliance Report issued by Regional Office (CR), MoEFCC, Lucknow vide letter No. IV/ENV/CON-2/1300/2014/412 dated 08.10.2018 for earlier environmental clearance conditions. The Committee was informed that the project proponent has submitted the action taken report to MoEFCC Regional Office, Lucknow vide letter dated 22.03.2019 on issues which have been stated to be partially complied or non/not complied in the certified compliance report issued. The Committee noted that the project proponent had obtained Consent to Establish from DPCC vide Consent Order No. DPCC/CMC/2014/35254 dated 17.12.2014 which was valid up to 20.07.2015. Further the project proponent has applied for renewal of CTE only on 06.02.2019 which is pending with DPCC. The Committee also observed that water balance submitted by the project proponent was not appropriate. The Committee asked the project proponent to submit following*

- (i) Submit valid Consent to Establish for the existing project.
- (ii) Submit revised water balance for the proposed project.
- (iii) Submit revised CER plan.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Agenda item No. 39.3.10.

Proposed Expansion of Hotel at Plot No.2, Wazirpur District Center, Delhi by M/s. Asrani Inns and Resorts Pvt Ltd - Environmental Clearance

(IA/DL/NCP/75433/2018; F.No.21-20/2019-IA-III)

39.3.10.1. The project proponent and the accredited Consultant M/s Ascenso Enviro Pvt. Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project is located at 28°41'39.30"N Latitude and 77° 8'51.67"E longitude.
- (ii) This is an expansion Project. The Project earlier has received environmental clearance vide EC letter No. Environmental Clearance No. DSPCC/SEAC/200/SEIAA/73/2013 Dated 01.08.2014 from SEIAA, Delhi.

- (iii) The total plot area is 7,030 sqm. The total built up area is 38,953.117 sqm. Maximum height of the building is 72.35 m. The details are as follows:

S. No.	Particulars	Area in sqm
1	Total Plot Area	7,030.00
2	Built-up Area as per previous EC (FAR+NON FAR+ ALL BASEMENT +ALL SERVICES)	27,254.030
3	Built-up Area after Expansion (FAR+NON FAR+ ALL BASEMENT +ALL SERVICES)	38,953.117
4	Total Permissible Ground Coverage @ 50% of plot area	3,515.00
5	Achieved Ground Coverage @ 40.72 % of Plot Area	3,106.287
6	Permissible FAR @ 2.06 of Plot area (At the time of Allotment)	14,500.00
7	After New Notification FAR increased to 3.75 (Max.)	26362.5
8	Total FAR achieved @ less than 3.75	16,833.776
9	Total NON FAR (ALL BASEMENT +ALL SERVICES)after Expansion	22119.341
10	Built up Area (FAR+NON FAR+ ALL BASEMENT +ALL SERVICES)	38953.117
11	Increase in Built-up Area including (FAR+NON FAR+SERVICES)	11,699.061

- (iv) During construction phase, total water requirement is 20 KLD which will be met from treated water from CSTP/Private 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.
- (v) During operational phase, total water demand of the project is expected to be 523 KLD and the same will be met by the 283 KLD fresh water from NDMC and 240 KLD recycled water. Total 282 KLD wastewater generated will be treated in STP of 300 KLD capacity and 60 KLD ETP (Common ETP for Plot-1 & Plot-2).
- (vi) The Total solid waste generation from the project is 604.05 kg/day. The project adopts a systematic approach for solid waste collection and disposal. Solid waste generated from the project will be collected properly and managed as per Solid Waste Management Rules, 2016. The domestic solid waste generated by the occupants of the Guest Rooms, Service Apartments, staff and Commercial & Community Population, pertains to the two categories, Bio-degradable and Non-biodegradable. These solid wastes will be collected separately by putting three types of separate bins at the source of generation. For the biodegradable waste green bins will be provided, for the recyclable waste white bins and for the non-biodegradable waste black bins will be provided. For wet garbage, Organic Waste Converter will be installed within the complex
- (vii) The total power requirement is 2772 KW. The source of power supply is BSES, Rajdhani Pvt. Ltd.
- (viii) Rooftop rainwater of buildings will be collected in total 8 Nos. of RWH pits.
- (ix) The total parking proposed is 517 ECS.
- (x) It is not located within 10 km of Eco Sensitive areas.
- (xi) There is no court case pending against the project.
- (xii) Investment/Cost of the project is Rs. 200 Crore.
- (xiii) Employment potential: 250 peoples.
- (xiv) Benefits of the project: Social, Economical and Environmental.

39.3.10.2. The EAC noted the following:-

- (i) The proposal is for grant of environmental clearance to the project Proposed Expansion of Hotel at Plot No. 2, Wazirpur District Center, Delhi by M/s. Asrani Inns and Resorts Pvt Ltd in a total plot area of 7,030 sqm and total construction (built-up) area of 38,958.041 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.3.10.3 *The Committee noted that the Project has received environmental clearance from SEIAA, Delhi vide EC letter No. No. DSPCC/SEAC/200/SEIAA/73/2013 dated 01.08.2014. The Committee deliberated upon the Certified Compliance Report issued by Regional Office (CR), MoEFCC, Lucknow vide letter No. IV/ENV/CON-2/11299/2014/423 dated 11.10.2018 for earlier environmental clearance conditions. The Committee was informed that the project proponent has submitted the action taken report to MoEFCC Regional Office, Lucknow vide letter dated 22.03.2019 on issues which have been stated to be partially complied or non/not complied in the certified compliance report issued. The Committee noted that the project proponent had obtained Consent to Establish from DPCC vide Consent Order No. DPCC/CMC/2014/35255 dated 17.12.2014 which was valid up to 20.07.2015. Further the project proponent has applied for renewal of CTE only on 06.02.2019 which is pending with DPCC. The Committee also observed that water balance submitted by the project proponent was not appropriate. The Committee asked the project proponent to submit following*

- (i) Submit valid Consent to Establish for the existing project.
- (ii) Submit revised water balance for the proposed project.
- (iii) Submit revised CER plan.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Agenda item No. 39.3.11.

“Motel and Commercial Complex” at Plot no 38/7/1, 8, 9/2, 12/2, 13, 14/1, 19/2, &23/1, Village Samalkha, Vasant Vihar, New Delhi by M/s NU Stores Pvt. Ltd. - Environmental Clearance

(IA/DL/MIS/97607/2019; F.No.21-21/2019-IA-III)

39.3.11.1. The project proponent and the accredited Consultant M/s Perfect Enviro Solutions Pvt Ltd gave a detailed presentation on the salient features of the project and informed that:

- (i) The project “Motel and Commercial Complex” will be proposed at Plot No. 38//7/1, 8, 9/2, 12/2, 13, 14/1, 18, 19/2 and 23/1, Village Samalkha, Tehsil Vasant Vihar, New Delhi. The project will be developed by M/s NU Stores Private Limited. The land has been purchased by M/s NU Stores Pvt. Ltd.
- (ii) The project is a new project. The project will be located at Latitude 28°31'25.45” N and Longitude 77°05'48.70” E.
- (iii) Total plot area of 30,267.29 sqm out of which 4,410.55 sqm area will be reserved under Road widening. Hence, the net plot area of the project will be 25,856.74 sqm. The total FAR Area of the project will be 49,222.28 sqm. The total Non-FAR Area of the project will

be 9,992.27 sqm. The total basement area of the project (excluding FAR Area) will be 58,780.73 sqm. The built-up area of the project will be 1,17,995.24 sqm. Total no. of guest rooms will be 389 nos. The maximum height of the building will be 39.9 m. The activities proposed in the project are Guest rooms, Banquet Hall, All day Dining, Bar and Restaurant, Lounge, Commercial Building and Offices.

Particulars	Unit	Details
Plot Area	sqm	30,267.29
Area under road widening	sqm	4,410.55
Net plot area	sqm	25,856.74
GROUND COVERAGE		
G.C (Permissible) (40% of net plot area)	sqm	10,382.12
G.C (Achieved) (37.76% of net plot area)	sqm	9,765.382
F.A.R AREA		
F.A.R (Permissible) (1.938 of net plot area)	sqm	50,125.19
Motel and Banquet	sqm	42,593.48
Commercial	sqm	6,628.8
FAR (Proposed)-A (1.903 of net plot area)	sqm	49,222.28
NON-FAR AREA		
Non-FAR- B	sqm	9,992.27
BASEMENT AREA		
Basement Area-1(excludingFAR area)	sqm	18,851.5
Basement Area-2	sqm	18,215.33
Basement Area-3	sqm	21,713.9
Total Basement area- C	sqm	58,780.73
Built-up Area (A+B+C)	sqm	1,17,995. 28
Green Area (30.17 % of net plot area)	sqm	7,800.00
Road Area & Open Area including parking (32.06% of net plot area)	sqm	8,291.358
No. of Floors	No.	G+8
No of Blocks/Towers	No.	2
No. of Basement	No.	3
No of Guest Rooms	No.	389
Total Population	No.	12820
Height of building	m	39.9

- (iv) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water nearby STP. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Mobile toilets will be provided during peak labour force.
- (v) During operational phase, total water demand of the project is expected to be 577 KLD out of which 285 KLD fresh water requirement will be sourced from Delhi Jal Board and remaining from recycled water. The total waste water generation will be 297 KLD from domestic, flushing and kitchen and 28 KLD from laundry. 297 KLD waste water generated shall be treated in Sewage Treatment Plant (STP) of capacity 390 KLD and 28 KLD waste water shall be treated in ETP of 30 KLD. Treated water of 292 KLD will be reused in flushing, gardening and DG & HVAC Cooling. As proposed no excess treated water shall be discharged to Municipal drain.

- (vi) Total 766 Ton/annum solid wastes will be generated. 460 ton/annum of bio-degradable waste generated will be treated in organic waste convertor proposed within the site, 153 Ton/annum of Non-biodegradable waste shall be given to approved recycler and 153 Ton/annum of Plastic waste shall be given to approved recycler. 0.72 kilo ltrs/annum used oil shall be generated which will be sent to approved vendor and 0.024 ton/annum E-waste generated will also be given to approved vendor. Battery waste shall be generated from inverters & UPS. It will be properly managed as per Batteries (Management and Handling) Rules, 2001 and its amendments.
- (vii) The total Power Requirement after all conservation measures during Operation Phase will be 4605 kW (5116 kVA) which will be sourced through BSES. In case of power failure, power backup will be provided through DG sets of 4x1500 kVA and 1x1010 kVA. The DG sets will be kept in acoustically treated room in Basement. Proper Stack Height shall be provided to reduce the air emission as per norms prescribed by CPCB.
- (viii) Total 7 Nos. of RWH pits shall be installed to recharge the ground water.
- (ix) Parking Requirement for the project will be 1477 ECS. Total Parking Provision will be 1603 ECS which shall be provide in Basements.
- (x) Energy Conservation measures: Day light provision shall be made by using fixed glazed windows with energy efficient glass. LED lights have been proposed for common areas like corridors, lift, and lobby. Transformers will be having efficiencies as per ECBC Norms. For HVAC Water cooled chillers with centrifugal machines will be installed. Chiller and secondary pumps with Variable Frequency Drive (VFD), Primary & Condenser pumps will be installed with fixed speed. These shall bring an advantage of diversified occupancy and operations & also result in saving in power consumption and energy saving. Uses of incandescent lamp and halogen lamps shall be used to minimum extent possible and energy efficient LEDs shall be used for all common area. External street lighting shall be provided by standalone solar panel. Total 161 Nos. of Solar Collector / panel shall be provided of capacity 100 liter/day for each.
- (xi) No Eco Sensitive area lies within the 10 km radius of the project site.
- (xii) NBWL and Forest Clearance are not required.
- (xiii) There is no Court case pending against the project.
- (xiv) Cost of the project is Rs. 109.3 Crores.
- (xv) Employment potential: Labourers during construction phase 150 nos. and about 1896 personnel as staff during operation phase.
- (xvi) Benefits of the project: Employment opportunities provided due to the project will lead to better quality of life and will also set a standard for future developments in the area. The project will lead to increase in the infrastructure of the area and encourage others for further development of the area. It will provide healthy, green & safe premises for living. People have more open and green spaces, bringing them closer to nature. People live, stay and recreate; and have immediate access to entertainment facilities in a single, spacious and secured area. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.3.11.2. The EAC noted the following:-

- (i) The proposal is for grant of environmental clearance to the project "Motel and Commercial Complex" at Plot no 38/7/1, 8, 9/2, 12/2, 13, 14/1, 19/2, &23/1, Village

Samalkha, Vasant Vihar, New Delhi by M/s NU Stores Pvt. Ltd. in a total plot area of 30,267.29 and total construction (built-up) area of 1,17,995.24 sqm.

- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.3.11.3 *The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) The project proponent shall obtain water supply assurance/permission from Delhi Jal Board, before commencement of work.
- (v) As proposed, fresh water requirement from DJB supply shall not exceed 285 KLD.
- (vi) Sewage shall be treated in the STP based on MBR Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, gardening and DG & HVAC Cooling. As proposed, no excess treated water shall be discharged to municipal drain.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 7 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.

- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 80 sqm area 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.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xii) The project proponent shall comply super ECBC requirement of ECBC 2017.
- (xiii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 7,800 sqm (30.17% of total area) area shall be provided for green area development.
- (xiv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 1.64 Crores (@1.5% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as drinking water supply, sanitation, health, solid waste management facilities, rain water harvesting and skill development. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Day-2: Wednesday, 27th March, 2019

Agenda item No. 39.4.1.

Development of Commercial Project (Office cum Retail) at LP3-02 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi by M/s Delhi International Airport Limited - Terms of Reference

(IA/DL/NCP/97677/2019; F.No.21-16/2019-IA-III)

39.4.1.1. The project proponent and the accredited Consultant M/s Ind Tech house Consult gave a detailed presentation on the salient features of the project and informed that:

- (i) M/s Delhi International Airport Limited is Proposing Development of Commercial Project (Office cum Retail) at LP3-02 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi on a plot area of 24,206 sqm and total built up area is 2,12,862 sqm.
- (ii) A total of 2,421 sqm of plot area is to be developed as landscape area. The project envisages construction of 6B+G+7 floors. Total population of the proposed project will be 11,151 persons which include the population of 8,190 working, 2,881 floating and 80 Service Personnel. The details of the project are as follows:

Plot Area Related Information		
Plot Area	24206	sqm
Permissible Ground Coverage Area @ 50%	12103	sqm
Ground Coverage Area Proposed @ 49.9%	12101	sqm
Open Area/Circulation/Parking	9684	sqm
Green Area	2421	sqm
Building Related Information		
Type of Use	Office cum Retail	
No. of Floor of Building	6B+G+7	
Maximum Height of the building	33.44	m
FAR in Office Area	80485	sqm
FAR in Retail	4236	sqm
FAR Area Achieved	84721	sqm
Other Non FAR Area	16944	sqm
Total Area without Basement	101665	sqm
Number of Basement	6	
Basement Area under Non FAR	111197	sqm
Total Built up area	212862	sqm
Number of Floors	G+7	

- (iii) The total water requirement for the entire project has been estimated to be 688 KLD. This includes domestic water requirement, flushing, DG cooling, HVAC and landscaping. The total fresh water requirement for the entire project is 353 KLD which includes domestic water requirement. The 335 KLD treated water will be met from onsite STPs of 450 KLD.
- (iv) Total waste water generation from entire project will be 371 KLD which will be treated in onsite STP of 450 KLD. The 335 KLD treated water from onsite STPs will be re-used.
- (v) The total electrical load demand has been estimated to be 5,000 KVA for the proposed project. The source of power will be from BSES Rajdhani.
- (vi) In case of power failure, DG sets of total capacity of 2100 KVA for the proposed project will be provided as power back-up.
- (vii) The domestic solid waste will be generated by the project will pertain to the Bio-degradable & Non-biodegradable Waste. It is estimated that maximum solid waste generation from entire project would be about 3.3 TPD for the proposed project.
- (viii) The cost of the project is Rs. 733.20 Crore.
- (ix) Employment potential: There will be generation of employment during development & operation phase.
- (x) Benefits of the project: Proposed project will further have positive impact on locality through direct and indirect economic benefits.

39.4.1.2. The EAC noted the following:-

- (i) The proposal is for grant of Terms of Reference to the project “Development of Commercial Project (Office cum Retail) at LP3-02 at Downtown District, Aerocity, Indira

Gandhi International Airport, New Delhi by M/s Delhi International Airport Limited in a total plot area of 24,206 and total construction (built-up) area of 2,12,862 sqm.

- (ii) The project/activity is covered under category 'B' of item 8(b) 'Township and Area Development Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.4.1.3 *The Committee deliberated upon the proposal and after detailed deliberations, the Committee recommended the project 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) The EIA would study the impact of dewatering and draw up an action plan for disposal of the excess water.
- (ii) The Air Quality Index shall be calculated for base level air quality.
- (iii) A detailed report on compliance to ECBC norms.
- (iv) The EIA should examine the possibilities of net zero energy consumption. The design of the building should be such so that at least in the day time here is minimum electricity is utilized for lighting purposes.
- (v) A certificate from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- (vi) An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA. The Plan to be implemented to the satisfaction of the State Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.
- (vii) The permission of the CGWA for abstraction of ground water, if any, and for basement/excavation dewatering.
- (viii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
- (ix) A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
- (x) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- (xi) Submit detailed plan for tree plantation along with proposed cutting/translocation of trees.

- (xii) Plan for Corporate Environment Responsibility (CER) as specified under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018 shall be prepared and submitted along with EIA Report.

It was recommended that 'ToR' 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.

Agenda item No. 39.4.2.

Development of Commercial Project (Office cum Retail) at LP3-01 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi by M/s Delhi International Airport Limited - Terms of Reference

(IA/DL/NCP/97673/2019; F.No.21-17/2019-IA-III)

39.4.2.1. The project proponent and the accredited Consultant M/s Ind Tech house Consult gave a detailed presentation on the salient features of the project and informed that:

- (i) M/s Delhi International Airport Limited is Proposing Development of Commercial Project (Office cum Retail) at LP3-01 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi on a net plot area of 24,206 sqm and total built up area is 2,06,084 sqm.
- (ii) A total of 2,421 sqm of plot area is to be developed as landscape area. The project envisages construction of 6B+G+6 floors. The details are as follows:

Brief description of the Project		
Plot Area	24206	sqm
Permissible Ground Coverage Area @ 50%	12103	sqm
Ground Coverage Area Proposed @ 49.9%	12101	sqm
Open Area/Circulation/Parking	9684	sqm
Green Area	2421	sqm
Building Related Information		
Type of Use	Office cum Retail	
No. of Floor of Building	6B+G+6	
Maximum Height of the building	30.89	m
FAR in Office Area	80485	sqm
FAR in Retail	4236	sqm
FAR Area Achieved	84721	sqm
Other Non FAR Area	10167	sqm
Total Area without Basement	94888	sqm
Number of Basement	6	
Basement Area under Non FAR	111196	sqm
Total Built up area	206084	sqm
Number of Floors	G+6	

- (iii) Total population of the proposed project will be 11,151 persons which include the population of 8,190 working, 2,881 floating and 80 Service Personnel.
- (iv) The total water requirement for the entire project has been estimated to be 692 KLD. This includes domestic water requirement, flushing, DG cooling, HVAC and landscaping. The total fresh water requirement for the entire project is 358 KLD which includes domestic water requirement. The 334 KLD treated water will be met from onsite STPs of 450 KLD.
- (v) Total waste water generation from entire project will be 371 KLD which will be treated in onsite STP of 450 KLD. The 334 KLD treated water from onsite STPs will be re-used.

- (vi) The total electrical load demand has been estimated to be 5,000 KVA for the proposed project. The source of power will be from BSES Rajdhani.
- (vii) In case of power failure, DG sets of total capacity of 2100 KVA for the proposed project will be provided as power back-up.
- (viii) The domestic solid waste will be generated by the project will pertain to the Bio-degradable & Non-biodegradable Waste. It is estimated that maximum solid waste generation from entire project would be about 3.34 TPD for the proposed project.
- (ix) The investment cost of the project is Rs. 709.85 Crores.
- (x) Employment potential: There will be generation of employment during development & operation phase.
- (xi) Benefits of the project: Proposed project will further have positive impact on locality through direct and indirect economic benefits.

39.4.2.2. The EAC noted the following:-

- (i) The proposal is for grant of Terms of Reference to the project "Development of Commercial Project (Office cum Retail) at LP3-01 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi by M/s Delhi International Airport Limited in a total plot area of 24,206 and total construction (built-up) area of 2,06,084 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(b) 'Township and Area Development Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.4.2.3 *The Committee deliberated upon the proposal and after detailed deliberations, the Committee recommended the project 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) The EIA would study the impact of dewatering and draw up an action plan for disposal of the excess water.
- (ii) The Air Quality Index shall be calculated for base level air quality.
- (iii) A detailed report on compliance to ECBC norms.
- (iv) The EIA should examine the possibilities of net zero energy consumption. The design of the building should be such so that at least in the day time here is minimum electricity is utilized for lighting purposes.
- (v) A certificate from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- (vi) An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA. The Plan to be implemented to the satisfaction of the State Urban Development

and Transport Departments shall also include the consent of all the concerned implementing agencies.

- (vii) The permission of the CGWA for abstraction of ground water, if any, and for basement/excavation dewatering.
- (viii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
- (ix) A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
- (x) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- (xi) Submit detailed plan for tree plantation along with proposed cutting/translocation of trees.
- (xii) Plan for Corporate Environment Responsibility (CER) as specified under Ministry's Office Memorandum vide F.No.22-65/2017-IA.III dated 1st May 2018 shall be prepared and submitted along with EIA Report.

It was recommended that 'ToR' 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.

Agenda item No. 39.4.3.

Development of Commercial Project (Office cum Retail) at LP2-01 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi by M/s Delhi International Airport Limited - Terms of Reference

(IA/DL/NCP/97669/2019; F.No.21-18/2019-IA-III)

39.4.3.1. The project proponent and the accredited Consultant M/s Ind Tech house Consult gave a detailed presentation on the salient features of the project and informed that:

- (i) M/s Delhi International Airport Limited is Proposing Development of Commercial Project (Office cum Retail) at LP2-01 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi on a plot area of 25,795 sqm and total built up area is 2,26,835 sqm.
- (ii) A total of 2,580 sqm of plot area is to be developed as landscape area. The project envisages construction of 6B+G+7 floors. Total population of the proposed project will be 11,892 persons which include the population of 8,727 working, 3,075 floating and 90 Service Personnel. The details are as follows:

Plot Area Related Information		
Plot Area	25795	sqm
Permissible Ground Coverage Area @ 50%	12897.5	sqm
Ground Coverage Area Proposed @ 49.9%	12895	sqm
Open Area/Circulation/Parking	10320	sqm
Green Area	2580	sqm
Building Related Information		
Type of Use	Office cum Retail	
No. of Floor of Building	6B+G+7	
Maximum Height of the building	31	m

FAR in Office Area	85768	sqm
FAR in Retail	4515	sqm
FAR Area Achieved	90283	sqm
Other Non FAR Area	18056	sqm
Total Area without Basement	108339	sqm
Number of Basement	6	
Basement Area under Non FAR	118496	sqm
Total Built up area	226835	sqm
Number of Floors	G+7	

- (iii) The total water requirement for the entire project has been estimated to be 735 KLD. This includes domestic water requirement, flushing, DG cooling, HVAC and landscaping. The total fresh water requirement for the entire project is 379 KLD which includes domestic water requirement. The 356 KLD treated water will be met from onsite STPs of 475 KLD.
- (iv) Total waste water generation from entire project will be 394 KLD which will be treated in onsite STP of 475 KLD. The 356 KLD treated water from onsite STPs will be re-used.
- (v) The total electrical load demand has been estimated to be 5,500 KVA for the proposed project. The source of power will be from BSES Rajdhani.
- (vi) In case of power failure, DG sets of total capacity of 2500 KVA for the proposed project will be provided as power back-up.
- (vii) The domestic solid waste will be generated by the project will pertain to the Bio-degradable & Non-biodegradable Waste. It is estimated that maximum solid waste generation from entire project would be about 3.6 TPD for the proposed project.
- (viii) The investment cost of the project is Rs. 781.33 Crores.
- (ix) Employment potential: There will be generation of employment during development & operation phase.
- (x) Benefits of the project: Proposed project will further have positive impact on locality through direct and indirect economic benefits.

39.4.3.2. The EAC noted the following:-

- (i) The proposal is for grant of Terms of Reference to the project "Development of Commercial Project (Office cum Retail) at LP2-01 at Downtown District, Aerocity, Indira Gandhi International Airport, New Delhi by M/s Delhi International Airport Limited in a total plot area of 25,795 and total construction (built-up) area of 2,26,835 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(b) 'Township and Area Development Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.4.3.3 *The Committee deliberated upon the proposal and after detailed deliberations, the Committee recommended the project 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) The EIA would study the impact of dewatering and draw up an action plan for disposal of the excess water.
- (ii) The Air Quality Index shall be calculated for base level air quality.
- (iii) A detailed report on compliance to ECBC norms.

- (iv) The EIA should examine the possibilities of net zero energy consumption. The design of the building should be such so that at least in the day time here is minimum electricity is utilized for lighting purposes.
- (v) A certificate from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- (vi) An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA. The Plan to be implemented to the satisfaction of the State Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.
- (vii) The permission of the CGWA for abstraction of ground water, if any, and for basement/excavation dewatering.
- (viii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
- (ix) A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
- (x) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- (xi) Submit detailed plan for tree plantation along with proposed cutting/translocation of trees.
- (xii) Plan for Corporate Environment Responsibility (CER) as specified under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018 shall be prepared and submitted along with EIA Report.

It was recommended that 'ToR' 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.

Agenda item No. 39.4.4.

Environmental and CRZ Clearance for Establishment of Captive Jetty for the proposed Ultra Mega Thermal Power Project at Pannaiyur village in Cheyyur Taluka, District Kancheepuram, Tamil Nadu by M/s Coastal Tamil Nadu Power Limited - Amendment in Environmental and CRZ Clearance

(IA/TN/MIS/23183/1910; F.No.10-18/2009-IA.III)

39.4.4.1. The project proponent and the accredited Consultant M/s PFC Consulting Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) A 4000 MW UMPP was proposed to be set up near village Cheyyur, District - Kancheepuram, Tamil Nadu using imported coal through a Captive Port proposed near village Panaiyur.
- (ii) Coastal Tamil Nadu Power Limited (CTNPL), an 'Operating SPV' was incorporated as a wholly owned subsidiary by Power Finance Corporation (PFC) on 09.01.2007 to undertake developmental activities for the proposed UMPP like land acquisition, obtaining statutory clearances and approvals etc. and to undertake bidding process to select the successful bidder.
- (iii) Cheyyur Infra Limited (CIL) an 'Infrastructure SPV' was incorporated as a wholly owned subsidiary on 21.01.2014 for acquiring and holding the Project Land for Cheyyur UMPP.
- (iv) The CTNPL shall be transferred to the Successful Bidder and the Cheyyur Infra Limited shall be transferred to the Procurers at the end of the bidding process and the land required for the Power Station thereon shall be leased by the Cheyyur Infra Limited to the Coastal Tamil Nadu Power Limited.
- (v) As the source of coal to be handled at proposed Captive Marine Terminal (Captive Port) at Panaiyur for Cheyyur UMPP has been changed from imported to domestic coal, annual quantum of coal may increase from 10-12 MTPA (imported coal) to 18-20 MTPA (domestic coal). Project Proponent submitted online application for change in source of coal from imported coal to domestic coal.
- (vi) The Environmental Clearance for Establishment of Captive Jetty for the proposed Ultra Mega Thermal Power Project at Pannaiyur village in Cheyyur Taluka, District Kancheepuram, Tamil Nadu was accorded to M/s Coastal Tamil Nadu Power Limited by MoEF vide F.No.10-18/2009-IA.III on 30.11.2012.
- (vii) The environmental clearance condition no.8 (x) specifies as follows: "In the event of a change in the project profile or change in the implementation agency a fresh reference shall be made to the Ministry of Environment and Forests.

39.4.4.2. *The Committee was informed that the proponent had earlier approached to the EAC (Thermal) for amendment in the Environmental Clearance granted vide Ministry's letter dated 30.9.2013 for setting up of 4000 MW Imported Coal based Ultra Mega Power Project in Kancheepuram District of Tamil Nadu for change in source of coal from imported coal to domestic coal. The proposal was considered by the Committee (EAC Thermal) in its meeting held on 23.01.2019. The EAC noted that NGT in the OA No.554/2018 vide Order dated 19.9.2018, has directed the following:*

"However we make it clear that the main contention raised in the appeal is with regard to the bifurcation of the Environmental Clearance to two components i.e. the plant itself and dedicated coal jetty & conveyor system. In the event, there is a decision to convert the nature of the coal used to domestic coal, the Ministry of Environment, Forest and Climate Change shall take these aspects into consideration while going into the question of granting fresh Environmental Clearance if not already considered."

Further, NGT in the OA No.554/2018 vide Order dated 19.9.2018 while dismissing the case directed the following:

"We find substance in the submission and, therefore, while dismissing the Appeals and the Original Application as being infructuous, we direct the

MoEF&CC to consider as to whether all stages is in the EIA Notification would be necessary to be followed while acting upon the letter dated 12th October, 2018.”

The EAC (Thermal) noted that the project is still in the process of acquiring the land and the requirement was originally 416.45 ha (1058 acres). However, the land requirement has been increased to 2007 acres which is nearly the double the requirement as approved in the Environmental Clearance. Further, Committee noted physical construction activities have not started yet and more than five years have been passed now. Further, the coal quality parameters have changed now to domestic coal. The environmental impacts from the domestic coal for a large size power project will also change significantly. It has been informed that the project configuration, layout and other technical parameters will also be revised. Accordingly, committee is of the opinion that a fresh EIA and Public Hearing may be required. In the last five years, the baseline status in the area may have changed and new industries may have come up. Presently, the EC is valid till September, 2020 (Seven years). It may not possible to complete the construction within the validity period, even if it is extended for further period of three years.

The EAC (Thermal) after detailed deliberations returned their application and requested Project Proponent to carry out the process of obtaining Environmental Clearance denovo.

The EAC (Infra-2) in its meeting held on 27th March, 2019 deliberated upon the proposal and was of the opinion that since both the projects i.e. (1) setting up of 4000 MW Imported Coal based Ultra Mega Power Project in Kancheepuram District of Tamil Nadu and (2) Establishment of Captive Jetty for the proposed Ultra Mega Thermal Power Project at Pannaiyur village in Cheyyur Taluka, District Kancheepuram, Tamil Nadu are inter-linked and the project proponent should apply afresh to carry out the process of obtaining Environmental and CRZ Clearance for Establishment of Captive Jetty for the proposed Ultra Mega Thermal Power Project.

Agenda item No. 39.4.5.

Environmental and CRZ Clearance for all weather Multipurpose Port near Subarnarekha River at Choumukh Village, Balasore District Orissa by M/s Subarnarekha Port Pvt Ltd - Extension of Validity of Environmental and CRZ Clearance

(IA/OR/MIS/94652/2012; F.No.10-33/2007-IA-III)

39.4.5.1. The project proponent and the accredited Consultant M/s L&T Infra Engineering gave a detailed presentation on the salient features of the project and informed that:

- (i) Subarnarekha Port Private limited (SPPL) is developing an All Weather Multipurpose Port at Choumukh village in Balasore district, Orissa. MoEF&CC has accorded the Environmental/CRZ Clearance for the project vide Letter F.No.10-33/2007-IA-III dated 21st March, 2012. The Odisha State Pollution Control Board (OSPCB) has granted the Consent to Establish (CTE) for the Project vide its Letter no. 21669/Ind-II-NOC-5438 dated 17th October, 2012 and renewed vide letter No. 6365/IND-II-NOC-5438(Pt) dated 24th May, 2018.
- (ii) Subsequently the incidental charges associated with Land alienation were paid on 31st July, 2012 to Government of Odisha (GoO). However, the requisite land was not leased to SPPL due to the PIL Petition No. 20115/2012 filed in High Court (HC) of Odisha, Cuttack (against Port Policy of Odisha State) on 6th December, 2012. The GoO desired that the said PIL should be cleared before handing over the Port land to the company

(SPPL). The HC of Odisha, Cuttack dismissed the PIL petition on 16th December, 2016. Subsequently, SPPL has signed the Land Lease agreement with GoO signed on 29th January, 2018 for most of Part of the Port land. The company has then signed an investor agreement with M/s. Tata Steel Limited on 18.09.2018. The project company is now a subsidiary of M/s. Tata Steel Limited and is fully ready to implement the project.

- (iii) Since then SPPL has initiated all necessary activities required for Port construction. Considering the present status, it is expected that the completion of construction of port facilities such as breakwaters, berths, dredging, reclamation and erection of mechanical handling equipment etc., will take between 30-33 months including financial approvals. As the validity of Environmental/CRZ clearance for the subject project will be expiring on 20th March, 2019, SPPL submitted the application with a request to grant extension of validity of Environmental/CRZ Clearances for Three more (i.e. till 20th March, 2022) years to complete the construction and commence the Port operations.
- (iv) No changes in the Project configuration, activity, capacity and facilities remain same as per Environmental/CRZ clearances obtained.

39.4.5.2 *During the deliberation, the EAC noted the following:-*

- (i) The proposal is for grant of Extension of Validity of Environmental and CRZ Clearance granted for all weather Multipurpose Port near Subarnarekha River at Choumukh Village, Balasore District Orissa by M/s Subarnarekha Port Pvt. Ltd.
- (ii) The project/activity is covered under category 'A' of item 7 (e) i.e. 'Ports, harbours, break waters, dredging' of the schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level by sectoral EAC.
- (iii) MoEF&CC has accorded the Environmental and CRZ Clearance for the project vide Letter F.No.10-33/2007-IA-III dated 21st March, 2012.

39.4.5.3. *The Committee was informed by the project proponent that SPPL has initiated all necessary activities required for Port construction. Considering the present status, it is expected that the completion of construction of port facilities such as breakwaters, berths, dredging, reclamation and erection of mechanical handling equipment etc., will take between 30-33 months including financial approvals. The Committee deliberated upon the proposal and noted that Environmental and CRZ Clearance was granted by MoEF&CC vide F.No. 10-33/2007-IA-III dated 21st March, 2012 and was valid up to 20th March, 2019 and the project proponent has made an application to the Ministry for extension of validity on 06.02.2019 i.e. within the validity of the EC&CRZ Clearance. The Committee also noted that Odisha State Pollution Control Board (OSPCB) has granted the Consent to Establish (CTE) for the Project vide its Letter no.21669/Ind-II-NOC-5438 dated 17th October, 2012 and renewed vide letter No. 6365/IND-II-NOC-5438(Pt) dated 24th May, 2018.*

The Committee after being satisfied with the submission made by the project proponent and proposed implementation schedule for completion of the project within 30-33 months, recommends the proposal for extension in validity of the Environmental and CRZ Clearance issued vide letter dated 21st March, 2012 for further 3 years i.e. up to 20th March, 2022.

Agenda item No. 39.4.6.**Integrated Treatment Storage and Disposal Facility for Hazardous Waste at Plot No. 158 to 164, KIADB Kadechur Industrial Estate Village Kadechur, Tehsil and District Yadgir, Karnataka by M/s Mother Earth Environ Tech Private Limited - Environmental Clearance (IA/KA/MIS/73814/2018; F.No.10-37/2018-IA-III)**

39.4.6.1. The project proponent and the accredited Consultant M/s Visiontek Consultancy Services Pvt Ltd, gave a detailed presentation on the salient features of the project and informed that:

- (i) The proposal is for Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF) at Plot No. 158 to 164, KIADB Kadechur Industrial Estate Village Kadechur, Tehsil and District Yadgir, Karnataka.
- (ii) M/s Mother Earth Environ Tech Pvt Ltd Bangalore (MEETPL) is proposing an integrated Treatment, Storage and Disposal Facility (TSDF) for hazardous waste (HW) under the setting-up and operational compliance framework of the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 (Hazardous Waste Rules) over a 16.2 ha industrial plot within Notified Industrial Estate (IE) of Karnataka Industrial Area Development Board (KIADB), Kadechur, Taluka and District Yadgir, Karnataka. The proposed integrated TSDF will comprise a secured landfill of 1.21 MT and an incinerator of 12 T/day (Phase I - Stationary hearth type), expandable to 24 T/day, Phase II - Rotary kiln primary chamber type) treatment and terminal disposal of hazardous waste, along with essential utilities and amenities.
- (iii) The site will also feature a 5 MLD CETP based on conventional technology, to be developed in phases of 1.2, 1.2 and 2.6 MLD.
- (iv) Total Area requirement for the project is 16.2 ha. The details are as follows:

Description of Activity	Land Requirement (ha)
Land Fill	6.57
Green belt	5.4
Built Up Area	0.663
Area for Solid Waste Management	3.567
Total	16.2

- (v) The total water requirement for the proposed facility is 40 KLD, fresh re-circulating Water will be supplied by KIADB. Permission has been granted by KIADB for water supply.
- (vi) Municipal solid waste disposal shall be as per the guidelines of MSW Rules, 2016.
- (vii) The project will require about 450 kW of electrical power. Source-Guberga Electricity Supply Company (GESG).
- (viii) Solar power system shall be installed for plant lightings and misc. utilities services to the extent of 5% of total power requirement.
- (ix) Rain Water harvesting will be done for the project site with the proposed settling pond as per the requirement.
- (x) Investment Cost of the project: Rs. 59.4869 Crores.
- (xi) Benefits of the project: To avoid unauthorized disposal of hazardous waste. By safe handling and disposal of hazardous waste in eco friendly manner.

(xii) Employment potential: 40 Nos.

38.4.6.2. During the deliberation, the EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Integrated Treatment Storage and Disposal Facility for Hazardous Waste at Plot No. 158 to 164, KIADB Kadechur Industrial Estate Village Kadechur, Tehsil and District Yadgir, Karnataka by M/s Mother Earth Environ Tech Private Limited.
- (ii) The project/activity is covered under category A of item 7(d) 'Common hazardous waste treatment, storage and disposal facilities (TSDFs)' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level by sectoral EAC.
- (iii) Terms of Reference (ToR) was accorded by MoEF&CC vide letter F.No 10-37/2018-IA-III dated 27.07.2018.
- (iv) The project has been exempted from Public Hearing as per Para 7(i) III Stage (3)(i)(b) of EIA Notification, 2006 for preparation of EIA/EMP report, being site is located in the KIADB industrial area.

39.4.6.3. During deliberation, the Committee was informed that there is a difference in EIA/EMP Report physically submitted by the project proponent and uploaded on the Ministry's portal. As per the ToR letter dated 27.07.2018, To condition at para 5(vi) Certified Compliance Report issued by the MoEF&CC, Regional Office or concerned Regional Office of Central Pollution Control Board or the Member Secretary of the Proposal No. INKAJMIS/73814/2018 Page 2 of 5 respective State Pollution Control Board for the conditions stipulated in the environmental clearance issued to KIADB Industrial Estate by MoEE&CC vide Letter No. 21-8/2014-IA-III, dated 14th October, 2016 along with an action taken report on issues which have been stated to be partially complied or non/not complied. However, the project proponent has not submitted the same and informed that the KIADB vide its letter dated 11.09.2018 has informed that the KIADB has taken all effective steps as per the terms & conditions of the EC approval, according tendering process for appointing consultant for monitoring of conditions stipulated in the EC would be finalized shortly. The Committee after deliberation on the proposal, sought following documents/certificates:

- (i) Submit revised Form-1 and EIA/EMP report for the project.
- (ii) Submit justification for non submission of the Certified Compliance Report.
- (iii) Submit cost of the project along with the justification.
- (iv) Submit revised water balance.

In view of the foregoing observations, the EAC recommend to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Agenda item No. 39.4.7.

Installation of material ropeways 5 nos. for the construction of Deothal Chanju 30 MW hydroelectric project at Village Dantoi, Tehsil Chaurah, District Chamba, Himachal Pradesh by M/s Himachal Pradesh Power Corporation Limited - Environmental Clearance (IA/HP/MIS/90253/2017; F.No.10-24/2017-IA-III)

39.4.7.1. The project proponent and the accredited Consultant M/s Perfect Enviro Solutions Pvt Ltd gave a detailed presentation on the salient features of the project and informed that:

- (i) The Hydro Electric Power Plant (HEP) of capacity 30 MW has been proposed by State Government of Himachal Pradesh in Churah tehsil of District Chamba of Himachal Pradesh by Himanchal Pradesh Power Corporation Limited (HPPCL).
- (ii) The proposed Material Ropeway shall be developed above the Chanju Nallah in Village Dantoi, Tehsil Churah, District Chamba, Himachal Pradesh for transportation of construction materials required for the construction of HEP 30 MW. The break-up of land use is given below:

Area required for	Area (ha)	Type of Land
Ropeway Platform (i) (Cross ropeways & Longitudinal Ropeways)	1.44 ha	Forest land
Ropeway Span (ii)	3.94 ha	Forest land
Total (i+ii)	5.38 ha	Forest land

- (iii) The ropeway shall be used for transportation of construction material i.e. cement, steel reinforcement in cut lengths, steel ribs, aggregates, steel liner etc. and the machinery/equipment i.e. welding sets, tipping trolleys, air compressor, concrete mixtures, concrete placers, air receiver tank, drilling equipment etc. for construction of Deothal-Chanju Hydro Electric Power plant (30 MW).
- (iv) The proposed system consists 5 no. of cross ropeways across the nallah and 1 longitudinal ropeway (Six Sections) connecting all the take off points of cross ropeways from road head to the trench weir along the right bank of Chanju Nallah based on Bi-cable Jig Back and Twin Track Bi cable ropeway system. Each Cross Ropeways consist of loading and unloading stations and longitudinal ropeway will connect all loading points of cross ropeways. The alignment of the project covers an area of 5.38 ha (including loading and unloading area, tower and corridor area). The pay load capacity of each ropeway lies between 2 MT- 3 MT. The area of land for the proposal under forest land. The maximum elevation of the ropeways will be 2810 m above MSL.
- (v) The project being an Aerial Ropeway falls under the activity 7 (g) of the EIA notification, 2006 and is a designated Project as per Schedule and falls under category A, as the terminal of all ropeways are at elevation of more than 1000 m MSL.
- (vi) The total population will be 60 including workers during construction phase and 10 no. of staff during operation phase.
- (vii) Total water requirement will be 5 KLD mainly for flushing, domestic and miscellaneous purposes. Water will be sourced from Chanju Nallah Water (Spring Water). Total quantity of wastewater generation will be 3.8 KLD which will be disposed off in septic tanks via soak pit.
- (viii) Power requirement during operation phase will be 500 KW which will be sourced by DG sets as there is no other source of power at the selected locations. Thus, DG sets installed during construction phase will remain in use during operational phase i.e. 7x35 KVA, 2x40 KVA, 2x30 KVA & 2x50 KVA.
- (ix) Total 8 Kg/day of Bio-degradable waste and 3 kg/day of recyclable waste will be generated from the employee and labours. The organic waste will be sent to nearby municipal site. The Recyclable Waste Collected and given to approved recycler.
- (x) There is No national park/Wild Life Sanctuary in 10 km radius of the site.

- (xi) Terms of Reference was granted by MoEF&CC vide letter F.No.10-24/2017-IA-III dated 17.08.2018.
- (xii) Public Hearing was held on 26.10.2018.
- (xiii) Total 5.38 ha forest land area will be required for the development of the ropeway which involves towers, loading & unloading area and including ropeway corridor.
- (xiv) There will be felling of 493 no. trees. An area of 53,800 sqm (5.38 ha) of forest land will be diverted. This activity will be carried out as per the guidelines of the Forest (Conservation) Act, 1980. However, compensatory afforestation shall be done in the ratio of 1:10.
- (xv) Used oil generated from the DG sets will be sent to authorize hazardous waste disposal authority.
- (xvi) Usage of electricity will mainly be for the operation of ropeway & services. However, conservation of energy will be practiced by the following methods:
 - Energy efficient motors & VFD shall be used as per ECBC Norms.
 - DG Sets shall be latest standards
- (xvii) Garland drains will be proposed around the pillars/towers for drainage of storm water.
- (xviii) The increase in vehicles will be managed in the open space available, adequate space is at the loading station for providing organized vehicle parking.
- (xix) Employment potential: During construction phase, approx. 60 labours shall be employed. The un-skilled labor can be procured from the local villages/towns providing employment opportunities to the local population. During the operational phase, about 10 persons would be required for technical and administrative functions.
- (xx) Project Benefits: The main objective of installation of the proposed ropeway, as mentioned earlier, is to transport construction material for HEP. Looking at various options of transport system, there are only two options available either road transport or aerial ropeway system, in which ropeway installation is fast, eco-friendly as well as economic. Ropeway System can negotiate steep gradient, with less space. Ropeway is an environment friendly system. There will be very less impact of the ecology and environment during the installation and operation of ropeway system. There will not be stress on the forest and its coverage can be maintained intact during the operation. There will not be any conflict on the wild life as the operation of ropeway does not generate any vibrations, sound, heat, etc. that might have negative impact on the wild life. Ropeway, generally, does not change the land use pattern. It rarely requires displacement or relocation. Being aerial, it does not obstruct the movement underneath. As ropeway is electrically operated, there will not be additional pressure on the requirement of fossil fuel for transportation of materials. Since Ropeway will directly transfer the material, it will reduce the contamination and wastage of the material.

39.4.7.2. During deliberations, the EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Installation of material ropeways 5 nos. for the construction of Deothal Chanju 30 MW hydroelectric project at Village Dantoi, Tehsil Chaurah, District Chamba, Himachal Pradesh by M/s Himachal Pradesh Power Corporation Limited.
- (ii) The project/activity is covered under category A of item 7(g) 'Aerial Ropeways' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires

appraisal at Central level as the terminal of all ropeways are at elevation of more than 1000 m MSL.

- (iii) Terms of Reference was granted by MoEF&CC vide letter F.No.10-24/2017-IA-III dated 17.08.2018.
- (iv) Public Hearing was conducted by HP State Pollution Control Board on 26.10.2018 at the project site.

39.4.7.3. *The Committee also deliberated upon the issues raised during the Public Hearing/Public Consultation meeting conducted by the HP State Pollution Control Board on 26.10.2018. The issues were raised regarding employment, compensation to farmers and impact on environment due to the proposed project. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report. The Committee also noted that diversion of total 5.38 ha of forest land will be required for the development of the ropeway which involves towers, loading & unloading area and including ropeway corridor. However, the project proponent has not submitted Stage I Forest Clearance. The project proponent has informed the Committee that they are in process of getting Stage-1 Forest Clearance.*

Based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, the EAC 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) The project shall be governed as per the Himachal Pradesh Aerial Ropeways Act, 1968. Necessary clearances in this regard shall be obtained and strictly complied with.
- (ii) The project proponent shall obtain Stage I Forest Clearance for total 5.38 Ha of forest land.
- (iii) The project shall be implemented only after obtaining the clearances under the Forest Conservation Act and the Wild Life Protection Act 1972 as applicable.
- (iv) The ropeway should include all the public hearing concerns in the management plan and execute them satisfactorily and monitored regularly as per law.
- (v) A detailed traffic management and a traffic decongestion plan should be drawn up round the project and implemented to the satisfaction of the State Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.
- (vi) Solar energy shall be used in the project i.e. at upper terminal and lower terminal to reduce the carbon footprint.
- (vii) Adequate infrastructure, including power, shall be provided for emergency situations and disaster management.
- (viii) During construction phase, 5 KLD water will be required which will be met from Chanju Nallah Water (Spring water).
- (ix) As proposed, wastewater will be disposed off in 2 no. of soak pits via septic tanks.
- (x) Regular safety inspection shall be carried out of the ropeway project and a copy of safety inspection report should be submitted to the Regional Office, MoEFCC.

- (xi) 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.
- (xii) No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the Concerned Regulatory Authority / Forest Department. Old trees should be retained based on girth and age regulations as may be prescribed by the Concerned Regulatory Authority / Forest Department. Plantations to be ensured species (cut) to species (planted). The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 125.78 lacs (@2% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as road side plantation & sprinkling system, toilet infrastructure development/ sanitation, skill development centre & library and solar power generation. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.4.8.

Group Housing at Khasra nos. 533/1 & 533/2 Village Chandanhaul, Tehsil Hauz Khas, New Delhi by M/s Wellworth Realtech LLP - Environmental Clearance

(IA/DL/MIS/93650/2019; F.No.21-10/2019-IA-III)

39.4.8.1. The project proponent and the accredited Consultant M/s Perfect Enviro Solutions Pvt Ltd gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude: 28°27'54.19"N and Longitude: 77°11'6.97"E.
- (ii) The project is a new project. Total plot area of 10,871 sqm (1.0871 ha), out of which net planned area is 9971.25 sqm and 899.75 sqm will be deducted under road widening. Total FAR proposed for project will be 22,910.85 sqm. The Non-FAR will be 6,583.0 sqm, total basement area will be 12,760.16 sqm. The built-up area of the project will be 42,253.97 sqm and Total no. of flats will be 197 nos. The maximum height of the building will be 78 m. The project details are as follows:

S.No.	Description	Unit	Details
1.	Project Cost	Crore	106
2.	Total Plot Area	sqm	10,871 (1.0871ha)
	Area under road widening	sqm	899.75
	Net planned area	sqm	9,971.25
3.	Ground Coverage (Permissible) (33%)	sqm	3,320.44
4.	Ground Coverage (Achieved) (17%)	sqm	1,701.09
5.	Total FAR (Permissible) (200%)	sqm	19,942.6
6.	FAR proposed		
	FAR – main Dwelling Unit	sqm	19,912.79

	FAR – EWS unit	sqm	2,998.06
	Total FAR Proposed (A)	sqm	22,910.85
7.	NON-FAR AREA		
	Area for swatch delhi block and ward cabin	sqm	46
	Stilt Area	sqm	3,615.74
	Area under swimming pool	sqm	100
	Proposed for community	sqm	399.89
	Balcony area	sqm	2,421.33
	Total Non-FAR (B)	sqm	6,583.0
8.	Basement Area		
	Basement Level -1	sqm	6,380.08
	Basement Level-2	sqm	6,380.08
	Total basement Area (C)	sqm	12,760.16
9.	Built-up Area (A+B+C)	sqm	42,253.97
10.	Green Area (33% of the net plot area)	sqm	3,331.69
1.	No. of Floors	No.	G+16
12.	No. of Towers/Block	No.	2
13.	No. of Basement (level)	Level	2
14.	Maximum Height of Building	m	78.0
15.	No. of DU	No.	115
16.	No of EWS	No.	82
17.	No of Servant unit	No.	44
18.	Total Population	No.	1027

- (iii) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water 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 labour force.
- (iv) During operational phase, total water demand of the project is expected to be 152 KLD out of which fresh water demand is 83 KLD and will be met by Delhi Jal Board and remaining from recycled water. Waste water generated will be 112 KLD from the project which will be treated in STP of 135 KLD Capacity. Out of the 101 KLD total treated water, 69 KLD will be reused in flushing, gardening, DG cooling & miscellaneous purposes and the rest 32 KLD excess treated water shall be discharged to sewer line of the area.
- (v) Total 153 Ton/annum solid wastes will be generated from the project. 91 Ton/annum of bio-degradable waste generated will be treated in organic waste convertor proposed within the site, 31 Ton/annum of Non-biodegradable waste shall be given to approved recycler and 31 Ton/annum of Plastic waste shall be given to approved recycler. 0.08 kilolitrs/annum used oil shall be generated which will be sent to approved vendor and 0.024 ton/annum E-waste generated will also be given to approved vendor. Battery waste shall be generated from inverters & UPS. It will be properly managed as per Batteries (Management and Handling) Rules 2001.
- (vi) The total power requirement of the project will be 3400 KW which will be met by BSES. In case of power failure, power backup will be provided through DG sets of 3 x 1010 KVA. Stack height of 6 m above roof level will be maintained to reduce the air emissions, meeting all the norms prescribed by CPCB.
- (vii) Total 3 Nos. of RWH pits shall be installed to recharge the ground water.

- (viii) Parking Requirement for the project is 421 ECS (including parking for EWS & Visitor). Total 440 ECS parking shall be provided. Green area of the project is 3331.69 sqm (33.41% of net planned area).
- (ix) Energy Conservation measures: LED, Solar panel, energy efficient lifts, energy efficient motors and pumps shall be used to conserve the electrical energy. During power failure D.G. Sets will start automatically. Fuel consumption for DG sets has been calculated to be 480 lt/hr (when in operation) of Ultra Low Sulphur Diesel. They will be having efficiencies as per the latest CPCB norms. D.G. Sets have to be installed in acoustically enclosed room and fitted with silencer. All cables shall be debated to avoid heating during use. This also indirectly reduces losses and imposes reliability. Consumption of non-renewable fuel shall be minimized. Solar panels shall be installed in the complex.
- (x) Eco Sensitive Areas: Asola wildlife sanctuary lies within 10 km radius. It is located at 1.87 km away from project site in E direction. However NBWL Clearance is not required.
- (xi) Forest Clearance is not required.
- (xii) There is no Court case pending against the project.
- (xiii) Cost of the project is Rs. 106 Crores.
- (xiv) Employment potential: Labourers during construction phase 150 no. and about 40 personnel as staff during operation phase.
- (xv) Benefits of the project: It will increase Infrastructure of the area & will provide housing facility, commercial area and open space with all other basic amenities to various classes of people. It will provide healthy, green & safe premises for living. People have more open and green spaces, bringing them closer to nature. People live, stay and recreate; and have immediate access to entertainment facilities in a single, spacious and secured area. It will increase Infrastructure of the area & will provide better environment to live. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.4.8.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Group Housing at Khasra nos. 533/1 & 533/2 Village Chandanhaul, Tehsil Hauz Khas, New Delhi by M/s Wellworth Realtech LLP for plot area 10,871 and total built-up area of 42,253.97 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.4.8.3. *During deliberation, the project proponent informed that total no. of trees present on the site are 161 out of which 6 trees are proposed to be cut/transplanted with prior permission from concerned Authority. The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) The project proponent shall obtain water supply assurance/permission from Delhi Jal Board, before commencement of work.
- (v) As proposed, fresh water requirement from DJB shall not exceed 83 KLD.
- (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, Miscellaneous, DG cooling and gardening. Excess treated water shall be discharged to municipal drain.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 3 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 40 sqm area 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.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./

competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- (xii) No tree shall be cut/transplanted unless exigencies demand. Where absolutely necessary, tree cutting/transplantation shall be with prior permission from the Concerned Regulatory Authority / Forest Department. Old trees should be retained based on girth and age regulations as may be prescribed by the Concerned Regulatory Authority / Forest Department. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 3,331.69 sqm. (33.41% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs 1.59 Crores (@ 1.5% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as drinking water supply, sanitation & waste management, skill development and computer education, waste management, rain water harvesting, plantation and horticulture etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.4.9.

"Commercial Complex with Multiplex" at Netaji Subhash Place Metro Station, Opposite Wazirpur District Centre, Pitampura, New Delhi by M/s Parsvnath Developers Ltd - Environmental Clearance

(IA/DL/MIS/96121/2019; F.No.21-11/2019-IA-III)

39.4.9.1. The project proponent and the accredited Consultant M/s Perfect Enviro Solutions Pvt. Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude 28°41'43.76"N and Longitude 77°9'9.81"E
- (ii) Earlier Environmental Clearance had been granted for development of the office-cum-commercial complex from MoEF&CC vide letter no. 21-220/2008-IA.III dated 29th October, 2008 for plot area 28,400 sqm and built-up area 29,074.55 sqm. However, the construction work has not been started yet at the project site.
- (iii) The total plot area 28,400 sqm. Total FAR proposed for project will be 20,370 sqm (for commercial complex will be 19,400 sqm and for green building will be 970 sqm). The NoN-FAR will be 6,769.35 sqm, total basement area will be 22,813.65 sqm. The built-up area of the project will be 49,953.00 sqm. Total no. of tower will be 1. The maximum height of the building will be 24 m. The details are as follows:

S.No	Description	Unit	Details
1.	Total Plot Area	sqm	28,400 (2.8400 ha)
2.	Ground Coverage (Permissible) (50%)	sqm	14,200
3.	Ground Coverage (Achieved) (17%)	sqm	13,109.152

	Existing Ground coverage for Metro station	sqm	4,500
	Proposed ground coverage for commercial complex	sqm	8,609.152
4.	Total FAR (Permissible) (1.05)	sqm	29,820
	FAR Permissible (1.0)	sqm	28,400
	FAR green Building (5%)	sqm	1,420
5.	Total FAR Proposed	sqm	20,370.00
	Proposed FAR for commercial complex	sqm	19,400
	Proposed green building FAR	sqm	970
6.	NON-FAR	sqm	6769.35
7.	Total Basement Area	sqm	22,813.65
	First Basement	sqm	11,406.827
	Second Basement	sqm	11,406.827
8.	Built-up Area (A+B+C)	sqm	49,953.00
9.	Green Area (20% of the net plot area)	sqm	5,680
10.	No. of Floors	No.	G+3
11.	No. of Towers/Block	No.	1
12.	No. of Basement (level)	Level	2
13.	Maximum Height of Building	m	24

- (iv) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water 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 labour force.
- (v) During operational phase, total water demand of the project is expected to be 138 KLD out of which fresh water demand is 32 KLD will be met by Delhi Jal Board and total treated water reused within the complex will be 106 KLD (72 KLD through in house STP and rest 34 KLD from nearby STP) will be reused in flushing, gardening, DG & HVAC cooling. Waste water generated will be 75 KLD from the project which will be treated in STP of 100 KLD Capacity. No water will be discharged to the sewer.
- (vi) Total 682 kg/day of solid wastes will be generated from the project. 273 kg/day of bio-degradable waste generated will be treated in organic waste convertor proposed within the site, 205 kg/day of Non-biodegradable waste shall be given to approved recycler and 204 kg/day of Plastic waste shall be given to approved recycler. 27 litre/month used oil shall be generated which will be sent to approved vendor. 2 Ton/month of E-waste generated will also be given to approved vendor. Battery waste shall be generated from inverters & UPS. It will be properly managed as per Batteries (Management and Handling) Rules 2001.
- (vii) The total power requirement of the project will be 1900 KW which will be met by TPDDL. In case of power failure, power backup will be provided through DG sets of 2 x 1010 KVA & 1 x 500 KVA (Working: 1x 1010 KVA, 1 x 500 KVA; Standby: 1 x 1010 KVA). Stack height of 30 m above surface level will be maintained.
- (viii) Total 2 Nos. of RWH structures shall be provided at the project site to recharge the ground water.

- (ix) Total parking requirement will be 609 ECS. Provision of 614 ECS will be provided. 5680.00 sqm, (i.e. 20% of the net plot area).
- (x) No Eco Sensitive area lies within the 10 km radius of the project site. Hence, NBWL Clearance is not required.
- (xi) Forest Clearance is not required.
- (xii) There is no Court case pending against the project.
- (xiii) Cost of the project is Rs. 110 Crores.
- (xiv) Employment potential: Labourers during construction phase 150 no. and about 455 personnel as staff during operation phase.
- (xv) Benefits of the project: The proposed complex will have shopping complex. It will increase Infrastructure of the area & will provide better shopping environment and will increase the livelihood of the people. It will provide healthy, green & safe premises for people. People will be away from traffic, pollution and congestion. People have more open and green spaces, bringing them closer to nature. People will have immediate access to shopping and entertainment facilities in a single, spacious and secured area. The benefits relate to the direct employment associated during the construction of the infrastructure in the complex and for staff in the shopping complex. Additional employment opportunities will lead to a rise in the income and improve their standard of living. The proposed facility would also generate jobs for the labours during construction phase as well as during operation phase. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.4.9.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project “Commercial Complex with Multiplex” at Netaji Subhash Place Metro Station, Opposite Wazirpur District Centre, Pitampura, New Delhi by M/s Parsvnath Developers Ltd. for plot area 28,400 and total built-up area of 49,953.00 sqm.
- (ii) The project/activity is covered under category ‘B’ of item 8(a) ‘Building and Construction projects’ of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.4.9.3. *The Committee during deliberation noted that earlier Environmental Clearance had been granted for development of the office-cum-commercial complex from MoEF&CC vide letter no. 21-220/2008-IA.III dated 29th October, 2008 for plot area 28,400 sqm and built-up area 29,074.55 sqm. However, the construction work has not been started at the project site as informed by the project proponent. Now, the project proponent has proposed to start the work on new plan and applied for fresh environmental clearance. The Committee noted that the project proponent has not submitted Certified Compliance report for environmental clearance issued earlier which is essential to verify the status of construction. The Committee asked the project proponent to submit the following:*

- (i) Submit Certified Compliance Report issued by the MoEF&CC, Regional Office or concerned Regional Office of Central Pollution Control Board or the Member Secretary of the respective State Pollution Control Board for the conditions stipulated in the earlier environmental clearance issued for the project along with an action taken report on issues which have been stated to be partially complied or non/not complied.

- (ii) Submit revised water balance for the proposed project.
- (iii) Submit revised Corporate Environment Responsibility (CER) Plan.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Agenda item No. 39.4.10.

Multistoried Residential Complex Project at Sy. Nos. 105-109, 111-114, Village Hafeezpet, Serilingampally Mandal & Municipal, Circle-12, West Zone GHMC, Telangana (8.54 Acres) by M/s U. Vennkata Sastry & Others - Environmental Clearance

(IA/TG/MIS/96560/2019; F.No.21-12/2019-IA-III)

39.4.10.1. The project proponent and the accredited Consultant M/s Grass Roots Research and Creation (GRC) India (P) Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project is located at SY Nos. 105-109, 111-114, Village-Hafeezpet, Serilingampally Mandal & Municipal, Circle-12, West Zone GHMC, Telangana. Latitude 17°29'09.28" N and Longitude: 78°21'06.68"E.
- (ii) The project is new. The total plot area is 34,598.75 sqm, FSI area is 61,082.485 sqm and total construction (built-up) area of 1,46,458.285 sqm. Maximum height of the building is 18 m. The details are as follows:

S. No.	Particulars	Area (sqm)
1.	Total Plot Area	34,598.75
2.	Net Plot Area	33,538.02
3.	Proposed Ground Coverage (@ 29.87%)	10,019.49
4.	Total Proposed FAR Area	61,082.485
	• Proposed Residential FAR (@164.05)	56,761.4
	• Club House FAR	4321.085
5.	Total Non-FAR Area	85,375.8
	• Basement 1	2528.92
	• Basement 2	23,942.94
	• Basement 3	29,451.97
	• Basement 4	29,451.97
6.	Total Built Up Area (4+5)	1,46,458.285
7.	Proposed Green Area (@20.49%)	6841.72
	• Soft green	3841
	• Hard green	3000.72
8.	Maximum Height of the Building (meter)	18

- (iii) The total water requirement for the construction of Multistoried Residential Complex Project (8.54 acres) is estimated to be approx. 366 ML. The water supply during Construction phase will be met through Hyderabad Metro Politian Water Supply & Sewerage Board (HMWSSB). During the construction phase, soak pits and septic tanks are provided for disposal of waste water. Temporary toilets will be provided for labourers.
- (iv) During operational phase, total water demand of the project is estimated to be 191 KLD and the same will be met by 131 KLD fresh water from the Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB) and recycled water. Wastewater generated (161 KLD) will be treated in STP of total 200 KLD capacity. About 145 KLD of treated

wastewater will be generated from which 56 KLD will be used for flushing, 4 KLD for gardening, and remaining 85 KLD will be sent to municipal drain.

- (v) About 1141.998 kg/day solid waste will be generated from the project. The biodegradable waste (685.198 kg/day) will be processed in OWC, Inert waste (114.199 kg/day) will be used for land filling and the non-biodegradable waste generated (342.599 kg/day) will be handed over to vendors.
- (vi) The total power requirement during operation phase is 3343 KVA and will be met from TSSPDCL.
- (vii) Parking facility for 1994 Nos. of four wheelers is proposed to be provided against the requirement of 567 Nos (according to local norms).
- (viii) Proposed energy saving measures: Energy will be saved using energy efficient lighting fixtures, Electronic Ballast, Timer based lighting and APFC Panel.
- (ix) It is not located within 10 km of Eco Sensitive areas.
- (x) There is no court case pending against the project
- (xi) Estimated Cost of the project is Rs. 180.29 Crore.
- (xii) Employment potential: It will generate direct and indirect employment opportunities for both skilled and unskilled labor during construction & operation phase.
- (xiii) Benefits of the project: Direct & Indirect employment opportunities and Infrastructural Development of the Area.

39.4.10.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Multistoried Residential Complex Project at Sy. Nos. 105-109, 111-114, Village Hafeezpet, Serilingampally Mandal & Municipal, Circle-12, West Zone GHMC, Telangana (8.54 Acres) by M/s U. Venkata Sastry & Others for plot area 34,598.75 and total built-up area of 1,46,458.285 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Telangana, the proposal has been appraised at Central Level.

39.4.10.3. *The Committee during deliberation noted that project proponent i.e. M/s U. Venkata Sastry & Others has made two applications for the proposal Multistoried Residential Complex Project at Sy. Nos. 105-109, 111-114, Village Hafeezpet, Serilingampally Mandal & Municipal, Circle-12, West Zone GHMC, Telangana vide proposal no. IA/TG/MIS/96560/2019 and IA/TG/MIS/96588/2019. In a query by the Committee, the project proponent informed that the land is divided by 12 mt wide road and they have obtained separate approvals from the concerned authorities and hence applied for the separate environmental clearances for both the projects. The Committee was also informed that Kasu Brahmananda Reddy National Park is at a distance of 9.35 km towards South-East from the project site. However, inadvertently it was missed to mention about the Eco Sensitive details in the Form-1/1-A applied and available on Ministry's portal. The project proponent further informed that as per the draft notification of MoEFCC dated 30th October, 2018, the extent of Eco Sensitive Zone varies from 3 meters to 29.80 meters. However, since notification is in draft stage, they have applied for Wild life*

clearance on 26.03.2019. The project proponent has also submitted the revised Form-1/1-A to the Committee.

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall obtain NBWL clearance before commencement of project.
- (iii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iv) The project 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.
- (v) As proposed, fresh water requirement from Hyderabad Metro Politan Water Supply & Sewerage Board (HMWSSB) shall not exceed 131 KLD.
- (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, and horticulture. Excess treated water shall be discharged to municipal drain.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 9 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 85 sqm area 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.

- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 6,874.05 sqm (20.49% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 2.70 Crores (@ 1.5% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as solar power, rain water harvesting and plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.4.11.

"Multi-Storied Residential Complex Project" at SYS No - 105 to 109 and 111 to 114, Village-Hafeezpet, Serilingampally Mandal & Municipal Circle-12, West Zone GHMC, Telangana (7.74 Acres) by M/s U.Venkata Sastry & Others - Environmental Clearance (IA/TG/MIS/96588/2019; F.No.21-22/2019-IA-III)

39.4.11.1. The project proponent and the accredited Consultant M/s Grass Roots Research and Creation (GRC) India (P) Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project is located at SY Nos. 105-109, 111-114, Village-Hafeezpet, Serilingampally Mandal & Municipal, Circle-12, West Zone GHMC, Telangana at Latitude: 17°29'07.73"N and Longitude: 78°21'12.65"E.
- (ii) The project is new. The total plot area is 30,263 sqm. FSI area is 70,936.19 sqm and total construction (built-up) area of 1,45,986.62 sqm. Maximum height of the building is 24 m.
- (iii) The total water requirement for the construction of Multistoried Residential Complex Project (7.47 acres) is estimated to be approx. 291 ML. The water supply during Construction phase will be met from Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB). During the construction phase, soak pits and septic tanks are provided for disposal of waste water. Temporary toilets will be provided for labourers.

- (iv) During operational phase, total water demand of the project is estimated to be 210 KLD and the same will be met by 144 KLD fresh water from the Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB) and recycled water. Wastewater generated (177 KLD) uses will be treated in STP of total 200 KLD capacity. About 159 KLD of treated wastewater will be generated from which 62 KLD will be used for flushing, 4 KLD for gardening, and remaining 93 KLD will be sent to municipal drain.
- (v) About 1258.72 kg/day solid waste will be generated from the project. The biodegradable waste (755.23 kg/day) will be processed in OWC, Inert waste (125.87 kg/day) will be used for land filling and the non-biodegradable waste generated (377.61 kg/day) will be handed over to vendors.
- (vi) The total power requirement during operation phase is 2,842 KVA and will be met from TSSPDCL.
- (vii) Parking facility for 1,710 Nos. of four wheelers are proposed to be provided against the requirement of 1,359 Nos (according to local norms).
- (viii) 8 no. of rain water harvesting pits are proposed to harvesting run-off from the project premises.
- (ix) Proposed energy saving measures: Energy will be saved using energy efficient lighting fixtures, Electronic Ballast, Timer based lighting and APFC Panel.
- (x) It is not located within 10 km of Eco Sensitive areas.
- (xi) There is no court case pending against the project
- (xii) Estimated Cost of the project is Rs. 172.14 Crores.
- (xiii) Employment potential: It will generate direct and indirect employment opportunities for both skilled and unskilled labor during construction & operation phase.
- (xiv) Benefits of the project: Direct & Indirect employment opportunities and Infrastructural Development of the Area.

39.4.11.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project "Multi-Storied Residential Complex Project" at SYS No - 105 to 109 and 111 to 114, Village-Hafeezpet, Serilingampally Mandal & Municipal Circle-12, West Zone GHMC, Telangana (7.74 Acres) by M/s U.Venkata Sastry & Others for plot area 30,263 and total built-up area of 1,45,986.62 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Telangana, the proposal has been appraised at Central Level.

39.4.11.3. *The Committee during deliberation noted that project proponent i.e. M/s U. Venkata Sastry & Others has made two applications for the proposal Multistoried Residential Complex Project at Sy. Nos. 105-109, 111-114, Village Hafeezpet, Serilingampally Mandal & Municipal, Circle-12, West Zone GHMC, Telangana vide proposal no. IA/TG/MIS/96560/2019 and IA/TG/MIS/96588/2019. In a query by the Committee, the project proponent informed that the land is divided by 12 mt wide road and they have obtained separate approvals from the concerned authorities and hence applied for the separate environmental clearances for both the projects. The Committee was also informed that Kasu Brahmananda Reddy National Park is at*

a distance of 9.10 km towards South-East from the project site. However, inadvertently it was missed to mention about the Eco Sensitive details in the Form-1/1-A applied and available on Ministry's portal. The project proponent further informed that as per the draft notification of MoEFCC dated 30th October, 2018, the extent of Eco Sensitive Zone varies from 3 meters to 29.80 mts. However, since notification is in draft stage, they have applied for Wild life clearance on 26.03.2019. The project proponent has also submitted the revised Form-1/1-A to the Committee.

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall obtain NBWL clearance before commencement of project.
- (iii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iv) The project 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.
- (v) As proposed, fresh water requirement from Hyderabad Metro Politan Water Supply & Sewerage Board (HMWSSB) shall not exceed 144 KLD.
- (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, and horticulture. Excess treated water shall be discharged to municipal drain.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 8 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.

- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 90 sqm area 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.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 5,562.39 sqm (20.11% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 2.50 Crores (@ 1.5% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as solar power, rain water harvesting and plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.4.12.

"Expansion of 1241 Beds Hospital Complex" at Sector-9, Dwarka, Delhi by M/s Directorate General of Health Services - Environmental Clearance

(IA/DL/MIS/96918/2009; F.No.21-14/2019-IA-III)

39.4.12.1. The project proponent and the accredited Consultant M/s Perfect M/s Perfect Enviro Solutions Pvt Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude 28°34'47.65"N and Longitude 77°3'44.63"E.
- (ii) The proposed project Expansion of 1241 beds Hospital Complex (750 Beds to 1241 Beds) shall be located at Sector-9, Dwarka, New Delhi. The land is allotted by Delhi Development Authority for construction of Hospital.

- (iii) Earlier Environmental Clearance was granted vide letter F.No.53/DPCC/SEIAA-SEAC/10/1048-52 dated 30.04.2010 by SEIAA, Delhi for built up area 1,25,335.267 sqm after that modification in Environment Clearance was again granted vide letter F.No. 53/DPCC/SEIAA-SEAC/10/1965-69 dated 30.5.2011 by SEIAA, Delhi due to differences occurring in area details to be sanctioned by DDA for built-up area 1,27,129.147 sqm.
- (iv) Total plot area of 60,000 sqm and built-up area of the project will be 1,48,570.06 sqm. No. of beds after expansion will be 1241 and maximum height of the building will be 36 m. After expansion, Total number of blocks will be 4 nos., maximum no. of floors will be G+8 and total no of Beds will be 1241 nos. The maximum height of the building will be 36 m. Details of the project is as follows:

Particulars	Unit	As per Environmental Clearance (A)	Additional (B)	After Expansion (A+B)	Impact
Plot Area (in sqm)	sqm	60000.00	-	60000.00	No change
Effective Plot Area (Phase-I construction)	sqm	42000.00	-	42000.00	No change
Ground Coverage (Permissible) (57% of effective plot area)	sqm	18000.00	6000.0	24000.00	Increase
Ground Coverage (Proposed) (31% of effective plot area)	sqm	12613.78	428.76	13042.54	Increase
F.A.R (Permissible) 5.35	sqm	90000.00	135000.00	225000.00	Increase
Total F.A.R (Proposed) (in sqm) – this includes FAR areas in Basement as well. – A (1.93)	sqm	81427.25	-191.48	81235.77	Decrease
Mumty, fire stair case area, Fire towers, Service areas, Lifts and Lift Lobbies, Service shafts and cut-outs, public toilets accessed by public corridors (in sqm)-B	sqm	45701.89	21632.40	67334.29	Increase
Basement 1 (area exempt from FAR)-C					
Basement 2 (area exempt from FAR)-D					
Total Built-up area (Covered area as per Unified Building bye laws 2016 amendments) (A+B+C+D) (in sqm)	sqm	1,27,129.14	21440.92	148570.06	Increase
Green Area (in sqm) 27.6 %	sqm	42508.22	-	11592.00	-
Open and Road Area (in sqm)	sqm	4878.00	-428.76	4449.24	Decrease
No. of Floors	-	G+10	-	G+8	Decrease
No. of Block	No.	4	-	4	No Change
Level of Basement (Level)	-	2	-	2	No change
No. of Beds	No.	750	491	1241	Increase
Bio Medical Waste		750 kg/day	-	465 kg/day	Increase

- (v) During construction phase, total water requirement is expected to be 28 KLD for construction purpose which will be met by treated water 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 labour force.

- (vi) During operational phase, total water demand of the project is expected to be 1275 KLD out of which fresh water requirement will be 634 KLD will be sourced by Delhi Jal Board (DJB) and 641 KLD of treated water from STP will be reused in flushing, gardening, Air Washers & cooling purposes. The total waste water generation will be 695 KLD from Domestic and Flushing uses and 62 KLD from Laboratory. The waste water shall be treated in Sewage Treatment Plant (STP) of capacity 750 KLD & Laboratory waste will be treated in Effluent Treatment Plant (ETP) capacity of 70 KLD & 56 KLD treated water from ETP will be discharge to the Sewer line.
- (vii) After expansion, total solid waste generation from the hospital will be approximately 1791 kg/day out of which Biodegradable waste will be 1254 kg/day will be treated in Organic Waste Converter proposed within the project, non-biodegradable waste of 448 kg/day and Plastic waste of 89 kg/day will be handed over to approved authorized recycler. Used Oil will be 70 lit/month shall be generated. E- Waste shall be generated 5 kg/month which will be given to approved recycler. 465 kg/day of Bio medical waste will be generated which will be given to authorized vendor.
- (viii) The total power requirement will be 7076 KVA which will be provided by BSES. In case of power failure, power backup shall be provided through DG sets of 4 x 2000 KVA & 1 x 2000 KVA (stand by) Hence to reduce the air emissions proper stack height shall be provided as per prescribed norms by CPCB.
- (ix) Total 12 Nos. of RWH pits shall be installed to recharge the ground water.
- (x) Parking Requirement for the project will be 1625 ECS. Parking provision will be 1625 ECS.
- (xi) Energy Conservation measures: All Electrical Equipment will be in compliance to ECBC norms. The electrical lighting will be preferred through LED. Street lights shall be preferred as solar lights. Waste Heat Recovery shall be made from the Boiler waste heat. Energy conservation has also been considered in the design and in the building, materials chosen for the construction. Solar provision of 1% of total load. Electric water heater shall meet the performance/minimum efficiency level mentioned in IS 2082. Gas Instantaneous water heaters shall meet the performance/minimum efficiency level mentioned in IS 15558 with above 80% thermal efficiency.
- (xii) No Eco Sensitive area lies within the 10 km radius of the project site. Hence, NBWL Clearance is not required.
- (xiii) Forest Clearance is not required.
- (xiv) There is no Court case pending against the project.
- (xv) Cost of the project is Rs. 565 Crores.
- (xvi) Employment potential: Labourers during construction phase 150 no. and about 2100 personnel as hospital staff during operation phase.
- (xvii) Benefits of the project: The hospital will provide world class medical facilities to patients. It will also provide 24x7 Ambulance facilities. The Hospital will provide employment to laborer's during construction phase and employment to personnel working in the hospital during operation phase. The Hospital will also enhance the infrastructure of the area.

39.4.12.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project "Expansion of 1241 Beds Hospital Complex" at Sector-9, Dwarka, Delhi by M/s Directorate General of Health Services for plot area 60,000 and total built-up area of 1,48,570.06 sqm.

- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.
- (iii) The proposal was considered in 96th meeting of SEAC, Delhi on 13.03.2018 for grant of Environmental Clearance. The Committee asked the project proponent to submit certified compliance report on the conditions stipulated in previous Environmental Clearance with a copy to Regional Office of MOEF.

39.4.12.3. *The Committee was informed that the project had earlier been granted Environment Clearance vide letter no. F.No. 53/DPCC/SEIAA-SEAC/10/1048-52 dated 30.04.2010 for plot area 60,000 sqm and built up area of 1,25,335.267 sqm. Later, due to differences occurring in built-up area from 1,25,335.267 sqm to 1,27,129.147 sqm while sanctioning of plan by DDA, modification in Environment Clearance was granted vide F.No. 53/DPCC/SEIAA-SEAC/10/1965-69 on 30.5.2011 by SEIAA, Delhi. The project proponent has further informed that application for expansion in the project (for built up area 1,48,570.06 sqm) was submitted online on 27.01.2017 to SEIAA, Delhi. Subsequently SEIAA, Delhi vide letter dated 02.06.2017 informed that as the built-up area of the project is less than 1,50,000 sqm, and the project falls under the item 8(a) therefore as per the amendment in EIA notification dated 09.12.2016, it did not require EC. However, amendment in EIA notification dated 09.12.2016 was stayed by NGT vide its order dated 08.12.2017. Accordingly, proposal was again applied to SEIAA, Delhi on 30.01.2018 for grant of environmental clearance for the expansion proposal. The proposal was considered in 96th meeting of SEAC, Delhi on 13.03.2018 for grant of Environmental Clearance. The Committee asked the project proponent to submit certified compliance report on the conditions stipulated in previous Environmental Clearance with a copy to Regional Office of MOEF*

The Committee also deliberated upon the certified compliance report issued by MoEFCC Regional Office, Lucknow vide File No: 4-836/2010-RO(NZ)/622 Dated 30.01.2019. As per the Certified Compliance report, Consent to Establish (CTE) was granted by DPCC vide consent order no. DPCC/CMC/2008/18855 dated 22.09.2008 which was valid up to 21.09.2009. Project proponent has submitted online application for renewal of CTE on 18.04.2018. The Committee noted that the project proponent has not obtained Consent to Establish after getting the environmental clearance. The Committee asked the project proponent to submit the following:

- (i) Submit valid Consent to Establish for the existing project.
- (ii) Submit an affidavit stating that no construction has been done after expiry of the Environmental Clearance.
- (iii) Submit action taken report on issues which have been stated to be partially complied or non/not complied in the certified compliance report issued by MoEFCC Regional Office, Lucknow.
- (iv) Submit revised water balance for the proposed project.
- (v) Submit details of Effluent Treatment Plant proposed to be installed.
- (vi) Submit revised CER plan.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Day-3: Thursday, 28th March, 2019

Agenda item No. 39.5.1.

Redevelopment of General Pool Residential Accommodation (GPRA) Colony at Sarojini Nagar by M/s NBCC India Limited - Amendment in Environmental Clearance

(IA/DL/NCP/96146/2018; F.No.21-338/2017-1A-III)

39.5.1.1. The project proponent and the accredited Consultant M/s ABC Techno Labs India Private Limited gave a detailed presentation on the salient features of the project and informed that:

- (i) NBCC (India) Limited has been assigned by Ministry of Housing and Urban Affairs (MoHUA) for the proposed redevelopment of General Pool Residential Accommodation (GPRA) Colony at Sarojini Nagar, Africa Avenue Marg, Chanakyapuri Tehsil, New Delhi. NBCC has obtained Environmental Clearance from Ministry of Environment, Forest and Climate Change vide letter F.No.21-338/2017-1A-III dated 12.06.2018 for the said project.
- (ii) Environmental clearance has been obtained for total plot area of 9,96,193.45 sqm and total built-up area of 38,45,281.18 sqm. It was proposed to execute the work in 5 Residential Type Buildings of 231 towers with combined basement and total dwelling units of 17,944 including Service apartments, Office block and other social infrastructure like Vinay Nagar Bengali Sr. School, Ganesh Shankar Sarvodaya Bal Vidyalaya, Government Boys Senior Secondary School - 1 & 2, Government Girls Senior Secondary School - 1, SKV Kanya Vidayala No.1, NDMC NAVY UG School, N.P Co-Ed Secondary School, N.P Primary School (D.G Block), N.P Primary School-1, Khalsa Middle School, Bharat Samaj Nursery School, NDMC Dispensary, C.G.H.S Dispensary No. 1 to 4, Barat Ghar, Ayush Hospital, GrihaKalyan Kendra & Barat Ghar-1, Police Station and Post Office.
- (iii) Initial activities were taken up after obtaining the EC but meanwhile writ petitions /PIL were filed in Hon'ble High Court, Delhi & National Green Tribunal (NGT) against felling of trees and they ordered to maintain status quo in redevelopment of all seven GPRA Colonies including Sarojini Nagar on 02.07.2018 & 26.07.2018. Thereafter, MoHUA submitted an affidavit for consideration of Hon'ble High Court with regard to avoid cutting of the trees to the maximum extent possible thereby necessitating changes in layout plan, reduction in dwelling units etc. Based on the affidavit, Hon'ble High court of Delhi has ordered on 03.10.2018 that MoHUA/NBCC should be permitted to approach appropriate statutory authorities for necessary approvals of the revised proposals, which shall be considered by the said authorities in accordance with law. Further action/steps shall be taken by MoHUA/NBCC as per the decision of the statutory authorities.
- (iv) As per the Hon'ble High court directions, NBCC has reworked their concept plans and the components include 5 Residential Type Buildings (Type II, III, IV, V, VI) of 160 towers with basement and service apartments with total dwelling units of 16,260, Commercial Blocks and other Social infrastructures like Vinay Nagar Bengali Sr. School, Ganesh Shankar Sarvodaya Bal Vidyalaya, Government Boys Senior Secondary School-1 & 2, Government Girls Senior Secondary School-1, Sarvodaya Kanya Vidayala No.1, NDMC NAVYUG School, N.P Co-Ed Secondary School, N.P Primary School (D.G Block), N.P Primary School-1, Khalsa Middle School, Bharat Samaj Sewak Nursery School, NDMC Dispensary & Quarters, C.G.H.S Dispensary No. 1 to 4, Barat Ghar, Griha Kalyan Kendra, Police Station & Quarters, Suvidha Market 1 to 3, Community hall (service Apartment 1 & 2), Local Shopping centre, Community hall 3 & 4, Multi-level car parking, Sarojini Nagar

Main market, Babu market, Red cross society, Delhi Public library, Post Office and DLF Square mall.

- (v) Out of the above Social infrastructures, Vinay Nagar Bengali Sr. School, Sarvodaya Kanya Vidyalaya No.1, NDMC NAVYUG School, N.P Co-Ed Secondary School, N.P Primary School-1, Khalsa Middle School, Bharat Samaj Nursery School, NDMC Dispensary & Quarters, Police Station & Quarters, Sarojini Nagar Main market, Babu market, Red cross society, Delhi Public library, Post Office and DLF Square mall are proposed to be retained which shall be refurbished later on.
- (vi) The details of the project components of the revised plan are as follows:
- i. The total plot area is 10,44,833.71 sqm which has been increased from 9,96,193.45 sqm and total construction area is 29,28,222.9 sqm. The details of the project as per EC granted and proposed amendment in the EC is as follows:

S. No.	DESCRIPTION	EC OBTAINED DATED 12.06.2018	EC AMENDMENT REQUESTED
1.	Total area of Extent	9,96,193.45 sqm	10,44,833.71 sqm
2.	Total Built up area	38,45,281.18 sqm	29,28,222.96 sqm
3.	Dwelling Units	17,944 Nos.	16,260 Nos. (10015 GPRA+890 Service Apartment+5355 Servant Quarters)
4.	Plot Coverage	1,81,805.30 sqm (18.25 %)	2,00,207.89 sqm (19.16%)
5.	Achieved FAR	17,18,685.97 sqm (180.97)	16,29,233.88 sqm (155.93%)
6.	Green belt area	3,50,162.00 sqm (35.15%)	3,04,237.91 sqm (29.12%)
7.	Parking details		
	Two wheeler parking required	15,545 Nos.	16,262
	Two wheeler parking provided	15,545 Nos.	16,262
	Car parking required	43,134 Nos.	25, 775
	Car parking provided	83,800 Nos.	26,015
8.	Total Population	1,13,441 Nos.	61,121 Nos.
9.	Source of Water Supply	New Delhi Municipal Council (NDMC)	New Delhi Municipal Council (NDMC)
10.	Total water Requirement	11,347 KLD	6,911 KLD
11.	Fresh Water Requirement	7,301 KLD	4,423 KLD
12.	Quantity of wastewater generation	9,482 KLD	5,782 KLD
13.	Treatment system for waste water	STP - 9,482 KLD Capacity Technology - FAB	STP - 5782 KLD Capacity Technology - MBR
14.	Power requirement & Source	1,07,443 MVA and NDMC	79,260 KW and NDMC

15.	Solid waste generation, treatment and management	<ul style="list-style-type: none"> • Municipal Solid waste - 43,425 Kg/day • Bio-degradable - 26,055 Kg/day (OWC) • Non-Biodegradable - 17,370 Kg/day (Authorized Recyclers) • Hazardous waste • Used oil - 2.5 TPA (Disposed to CPCB authorized re-processors) • C&D Waste - 4,41,619 Tons(disposed off at government specified C & D plant) • STP sludge - 1,171 Kg/day (Manure for gardening) 	<ul style="list-style-type: none"> • Municipal Solid waste - 44,802 Kg/day • Bio-degradable - 26,881 Kg/day (OWC) • Non-Biodegradable - 17,921 Kg/day (Authorized Recyclers) • Hazardous waste • Used oil - 2.5 TPA (Disposed to CPCB authorized re-processors) • C&D Waste - 4,41,619 Tons(disposed off at government specified C & D plant) • STP sludge - 832 Kg/day (Manure for gardening)
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ii. The built-up area statement of project as per EC granted and proposed amendment in the EC is as follows:

S. No.	Towers	EC OBTAINED DATED 12.06.2018				EC AMENDMENT REQUESTED			
		No. of Floors	No. of Towers	No. of Dwelling Units	Total (sqm)	No. of Floors	No. of Towers	No. of Dwelling Units	Total (sqm)
Residential									
1	Type-II	(G+12, G+11)	31	2885	207720	(G+12, G+11)	31	2824	222528
2	Type-III	(G+12)	29	2880	241419	(G+12)	28	2726	246943
3	Type-IV	(G+12, G+11)	56	2640	364681	(G+12, G+11)	52	2492	371954
4	Type-V	(G+11)	25	1125	238606	(G+11)	22	1012	216613
5	Type-VI	(G+12)	30	1125	310654	(G+12)	27	961	290130
	Combined Basement area				622792				648438
	Sub Total (A)			10655	1985872			10015	1348168
Commercial									
1	Commercial - C (Retail/ Office's)	(G+8)	2	-	195988	(LG+G+8)	1	-	34992.9
2	Commercial - D (Retail/ Office's)	(G+8)	1	-	44212	(LG+G+8)	2	-	178623
3	Service Apartment-1	(G+11)	9	315	75750	(G+11)	9	300	90733
4	Service Apartment-2	(G+12)	22	836	193950	(G+12)	18	590	180056
	Combined Basement area				1194353				320174
	Sub Total (B)			1151	1704253			890	804579

S. No.	Towers	EC OBTAINED DATED 12.06.2018				EC AMENDMENT REQUESTED				Remarks
		No. of Floors	No. of Towers	No. of Dwelling Units	Total (sqm)	No. of Floors	No. of Towers	No. of Dwelling Units	Total (sqm)	
Social Infrastructure										
1	Vinay Nagar Bengali Sr. School	(G+3)	1	-	7306.65	(G+2)	1	-	3528.09	Retained
2	Ganesh Shankar Sarvodaya Bal Vidyalaya	(G+3)	1	-	7652.8	(G+3)	1	-	6334.68	
3	Government Boys Senior Secondary School-1	(G+3)	1	-	7306.65	(G+3)	1	-	6986.79	
4	Government Boys Senior Secondary School-2	(G+3)	1	-	7306.65	(G+3)	1	-	5541.11	

5	Government Girls Senior Secondary School-1	(G+3)	1	-	7306.65	(G+3)	1	-	6610.07	
6	Sarvodaya Kanya Vidayala	(G+3)	1	-	7576.4	(G+1)	1	-	4230.73	Retained
7	NAVYUG School	(G+3)	1	-	10955.66	(G+2)	1	-	8814.75	Retained
8	N.P CO-ED Secondary school	(G+4)	1	-	6970.4	(G+1)	1	-	2832.62	Retained
9	N.P Primary School (D.G Block)	(G+3)	1	-	2860.35	(G+3)	1	-	2731.18	
10	N.P Primary school	(G+3)	1	-	3275.33	(G+2)	1	-	1566.09	Retained
11	Khalsa Middle School	(G+4)	1	-	9025	(G)	1	-	480.08	Retained
12	Bharat Samaj Sewak Nursery School	(G+3)	1	-	3275.33	(G)	1	-	620.92	Retained
13	NDMC Dispensary & Quarters	(G+2, G+11)	1	-	7214.03	(G+1), (51)	-	51	2919.84	Retained
14	C.G.H.S Dispensary No. 1	(G+3)	1	-	1714.72	(G)	1	-	400.41	
15	C.G.H.S Dispensary No. 2	(G+2)	1	-	939.33	(G+1)	1	-	604.24	
16	C.G.H.S Dispensary No. 3	(G+2)	1	-	902.52	(G+1)	1	-	524.06	
17	C.G.H.S Dispensary No. 4	(G)	1	-	186.27	(G+2)	1	-	1163.41	
18	Barat Ghar	(G+2)	1	-	1445.85	(G+2)	1	-	1332.43	
19	Griha Kalyan Kendra	(G+3)	1	-	2900.85	(G+2)	1	-	1616.74	

S. No.	Towers	EC OBTAINED DATED 12.06.2018				EC AMENDMENT REQUESTED				Remarks
		No. of Floors	No. of Towers	No. of Dwelling Units	Total (sqm)	No. of Floors	No. of Towers	No. of Dwelling Units	Total (sqm)	
20	Police Station & Quarters	(G+4, G+11)	1	-	9420.14	(G+1), (46)	-	46	3527.43	Retained
21	Post Office	(G+1)	1	-	1833.75	(G+1)	1	-	1664.84	Retained
22	Ayush Hospital(G+5)		1	-	2181.35					
23	Suvidha Market - 1					(G)	1	-	100.5	
24	Suvidha Market - 2					(G+1)	1	-	571.35	
25	Suvidha Market - 3					(G+1)	1	-	645.93	
26	Community Hall (Service Apartment - 1)					(G)	1	-	2678.59	
27	Community Hall (Service Apartment - 2)					(G)	1	-	2417.93	
28	Local Shopping Centre					(G+2)	1	-	10080.3	
29	Community Hall 3						1	-	142.23	
30	Community Hall 4						1	-	142.23	
31	Multi-Level Car Parking						1	-	25383.6	
32	Sarojini Nagar Main Market					(G)	1	-	13927.8	Retained
33	Babu Market					(G)	1	-	1024.02	Retained
34	Red-Cross Society						-	40	1677.11	Retained
35	Delhi Public Library					(G+3)	1	-	1908.28	Retained
36	DLF Square Mall					(G+9)	1	-	2307.57	Retained
	Combined Basement area				45600					
Sub Total (C)					155156.18				127037.92	
GRAND TOTAL (A + B + C)					3845281.18				2928222.93	

- iii. During construction phase, the total water requirement is expected to be 385 KLD which will be met by procuring recycled /treated water from nearby STP and the sewage generated will be treated by providing mobile STP. Temporary sanitary toilets will be provided during peak labor force.
- iv. During operational phase, total fresh water demand of the project is expected to be 4,423 KLD and the same will be sourced from the existing supply of 4073 KLD in Sarojini Nagar and surplus existing supply in adjoining Netaji Nagar by New Delhi Municipal Council (NDMC). Sewage generated (5,782 KLD) will be treated in STP of 5,782 KLD capacity based on Membrane Bio Reactor (MBR) technology. The treated sewage will be reused for toilet flushing (2,488 KLD), landscaping (799 KLD) and HVAC (534 KLD) (one time use). Excess 1,917 KLD of treated sewage will be supplied to NDMC for horticulture and other uses in surrounding area.
- v. Solid Waste generation has been projected as 44,802 kg/day. The biodegradable waste (26,881 kg/day) will be processed in Organic Waste Converter and the non-biodegradable waste (17,921 kg/day) will be handed over to Authorized Recyclers. The Bio-Sludge of 832 kg/day from STP will be used as manure for gardening and green belt development.
- vi. The total rainwater harvesting (RWH) potential estimated in the site is 31055 cum during peak hour rainfall. Rain water harvesting pits of 92 nos. will be constructed within the project site for recharge of groundwater. Surplus water from the recharge pits shall be diverted to the storm water drainage network.
- vii. During construction phase, the total power requirement is 9000 kVA and for operation phase of the proposed project is 79,260 KVA which will be availed from New Delhi Municipal Council (NDMC).
- viii. Parking facility for two wheelers and four wheelers are 16,262 Nos and 26,015 Nos are proposed to be provided against the requirement of 16,262 Nos and 25,775 Nos respectively (according to TCPO norms).
- ix. Proposed energy saving measures would save about 8.57% of power per annum.
- x. It is not located within 10 km of Eco sensitive areas.
- xi. There is no court case pending against the project.
- xii. Investment/ Cost of the project is Rs. 13,494 Crores.
- xiii. The Employment potential will be 8000 persons during construction phase.
- xiv. Benefits of the project: The proposed redevelopment is General Pool Residential Accommodation (GPRA) with supporting social infrastructure, General Pool Office Accommodation (GPOA) with advanced facilities under Ministry of Housing and Urban Affairs. The proposed project benefits the surroundings by providing employment opportunities both during construction and operation phase thereby enhancing the socio-economic and standard of living of the locality.

39.5.1.2. The EAC noted the following:-

- (i) The proposal is for grant of Amendment in Environmental Clearance to the project Redevelopment of General Pool Residential Accommodation (GPRA) Colony at Sarojini Nagar by M/s NBCC India Limited.

- (ii) The project/activity is covered under category 'B' of item 8(b) 'Townships and Area Development projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.
- (iii) Earlier Environmental Clearance for the project Redevelopment of General Pool Residential Accommodation (GPRA) Colony at Sarojini Nagar in favour of M/s NBCC India Limited was granted by Ministry of Environment, Forest and Climate Change vide letter F.No.21-338/2017-1A-III dated 12.06.2018 for total plot area of 9,96,193.45 sqm and total built-up area of 38,45,281.18 sqm.

39.5.1.3. *During deliberation, the Committee noted that as per the EC granted vide dated 12.06.2018, initial activities were taken up but due to writ petitions /PIL filed in Hon'ble High Court, Delhi and National Green Tribunal (NGT) against felling of trees, the Hon'ble High Court has ordered to maintain status quo in redevelopment of all seven GPRA Colonies including Sarojini Nagar on 02.07.2018 & 26.07.2018. Thereafter, MoHUA submitted an affidavit for consideration of Hon'ble High Court with regard to avoid cutting of the trees to the maximum extent possible thereby necessitating changes in layout plan, reduction in dwelling units etc. Based on the affidavit, Hon'ble High court of Delhi has ordered on 03.10.2018 that MoHUA/NBCC should be permitted to approach appropriate statutory authorities for necessary approvals of the revised proposals, which shall be considered by the said authorities in accordance with law. Accordingly, the project proponent has submitted application for amendment in the environmental clearance granted to the project.*

The Committee also noted that the project proponent has revised the water balance and reduced the requirement as per Manual on norms and standards for environment clearance of large construction projects of MoEF&CC issued vide order no F.No. J-12011/3/2005-IA (CIE) part, dated 15.05.2007. Now the fresh water demand is considered as 65 lpcd against 90 lpcd and flushing demand is considered as 21 lpcd against 45 lpcd. As per the revised water balance, during operational phase, total fresh water demand of the project is expected to be 4,423 KLD and the same will be sourced from the existing supply of 4073 KLD in Sarojini Nagar (as per certificate received from NDMC vide dated 13.09.2018) and surplus existing supply in adjoining Netaji Nagar by New Delhi Municipal Council (NDMC).

The Committee further noted that as per the revised tree cutting/transplantation plan, out of 11,913 existing trees of different species, 3,500 (+/- 5%) trees will be transplanted and 8,413 (+/- 5%) trees will be retained at the project site. It was informed that they have requested to Forest Department, GNCTD vide letter no. NBCC/GM/SN/DCF (S)/2019/30 dated 31.01.2019 for issuing tree cutting/transplantation permission.

During deliberation, the project proponent has informed the Committee that regarding Traffic study, UTTIPEC has decided to have a long term traffic congestion mitigation measures. Accordingly, PWD, GNCTD (Road owning Agency) has been appointed to conduct a comprehensive study synchronizing with their other upcoming road infrastructure works. Before submission to UTTIPEC, as an abundant precaution, expert agencies namely IUT & UMTC have been appointed by MOHUA to make the scheme comprehensive and effective. MoHUA in their affidavit submitted to Hon'ble High court stated that Possession will be allowed to be given only after addition / alteration to road infrastructure required to maintain smooth flow of traffic.

In a query by the EAC regarding decrease in green belt area, the project proponent has informed that earlier an area of 49,809.67 sqm was proposed for open parking. Now in the revised proposal and area of 1,27,595.88 sqm has been proposed for open parking resulting in decrease in green belt area.

The Committee was also informed that the project site is 9.2 km (ESE) from Okhla Bird Sanctuary and 9.6 km (SSE) from Asola Bhati Wildlife Sanctuary. Ministry vide Notification S.O. 2996(E) dated 11.09.2017 and S.O. 2262 (E) dated 19.08.2015 has notified Eco-sensitive Zone of Asola Bhati Wildlife Sanctuary and Okhla Bird Sanctuary respectively. The instant proposal is outside the Eco-sensitive Zone of Asola Bhati Wildlife Sanctuary and Okhla Bird Sanctuary and does not attract NBWL clearance.

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of amendment in environmental clearance and stipulated the following specific conditions while considering for accord of amendment in environmental clearance:

- (i) All the conditions contained in the Environment Clearance letter F.No.21-338/2017-1A-III dated 12.06.2018 shall be complied with.
- (ii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (iii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iv) The project 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.
- (v) As proposed, fresh water requirement from NDMC (as per certificate received from NDMC vide dated 13.09.2018) shall not exceed 4073 KLD. Existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project.
- (vi) Sewage shall be treated in the STP based on MBR Technology with tertiary treatment i.e. Ultra Filtration. The treated sewage will be reused for toilet flushing (2,488 KLD), landscaping (799 KLD) and HVAC (534 KLD) (one time use). Excess 1,917 KLD of treated sewage will be supplied to NDMC for horticulture and other uses in surrounding area.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 92 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.

- (x) NBCC shall be responsible for implementation of the traffic plan that is under preparation in coordinate with PWD, GNCTD (Road owning Agency) for the impact of the re-development project. The Traffic Management plan shall be implemented simultaneously and commissioned before allowing any occupants possession and start residence in the rehabilitated accommodation. Possession will be allowed to be given only after addition / alteration to road infrastructure required to maintain smooth flow of traffic.
- (xi) As proposed, no tree cutting/felling has been proposed. However, it is proposed to transplant 3,500 (+/- 5%) trees. No tree transplantation should be carried out unless exigencies demand. Where absolutely necessary, tree transplantation shall be with prior permission from the Tree Authority constituted as per the Delhi Preservation of Trees Act, 1994 (Delhi Act No. 11 of 1994). Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted). In case of non-survival of any transplanted tree, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree) shall be done and maintained.
- (xii) A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed, 3,04,237.91 (29.12% of the plot area) area shall be provided for green area development.
- (xiii) The project is recommended for grant of amendment in Environmental Clearance subject to final outcome in the W.P.(C) No. 6680/2018 in the matter of Dr. Kaushal Kant Mishra Vs Union of India & Ors pending before the Hon'ble High Court of Delhi.

Agenda item No. 39.5.2.

Redevelopment of General Pool Residential Accommodation (GPRA) Colony at Netaji Nagar, Delhi by M/s NBCC India Limited - Amendment in Environmental Clearance (IA/DL/NCP/96229/2017; F.No.21-150/2017-IA-III)

39.5.2.1. The project proponent and the accredited Consultant M/s ABC Technolabs india Private Limited gave a detailed presentation on the salient features of the project and informed that:

- (i) NBCC (India) Limited has been assigned by Ministry of Housing and Urban Affairs (MoHUA) for the proposed redevelopment of General Pool Residential Accommodation (GPRA) Colony at Netaji Nagar, New Delhi. NBCC has obtained Environmental Clearance from Ministry of Environment, Forest and Climate Change vide Letter F.No. 21-150/2017-IA-III dated 27.11.2017 for the said project.
- (ii) Environmental clearance (EC) has been obtained for total plot area of 4,42,404.80 sqm and total built-up area of 14,01,061.58 sqm. It was proposed to execute the work in 4 Phases consisting of Type II to VI quarters of 90 Towers with total dwelling units of 4,882 Nos, 5 Office Block, 1 Hostel Block and other social infrastructure like Netaji Nagar Market, Suvidha Market, Vegetable Market, Local shopping Centre, W.T.I, N.P.CO.ED Primary & Senior Secondary School, Sarvodaya Vidyalaya Sr. Sec. school, Barat Ghar, GrihKalyan Kendra, Club & Service apartments, Religious Buildings, Post Office, Dispensary, Zonal Health Center, Sandhya (Old Age Home) and Maintenance Office.

- (iii) Initial activities were taken up after obtaining the EC but meanwhile writ petitions /PIL were filed in Hon'ble High Court, Delhi & National Green Tribunal (NGT) against felling of trees and they ordered to maintain status quo in redevelopment of all seven GPRA Colonies including Netaji Nagar on 02.07.2018 and 26.07.18. Thereafter, MoHUA submitted an affidavit for consideration of Hon'ble High Court with regard to avoid cutting of the trees to the maximum extent possible thereby necessitating changes in layout plan, reduction in dwelling units etc. Based on the affidavit, Hon'ble High court of Delhi has ordered on 03.10.2018 that MoHUA / NBCC should be permitted to approach appropriate statutory authorities for necessary approvals of the revised proposals, which shall be considered by the said authorities in accordance with law. Further action/steps shall be taken by MoHUA/NBCC as per the decision of the statutory authorities.
- (iv) As per the Hon'ble High court directions, NBCC has reworked their concept plans and the components includes 5 residential type buildings (Type II, III, IV, V & VI) of 85 Towers with total dwelling units of 4,727 Nos, 5 Office Block, 1 SARTAC Hostel Block and other social infrastructure like Netaji Nagar Market, Suvridha Market (2 nos), W.T.I, NDMC Middle School, N.P.CO.EDSenior Secondary School, SarvodayaVidyalaya Sr. Sec. school, Barat Ghar, GrihKalyan Kendra, Post Office, Dispensary, Sandhya (Old Age Home), NBCC Office and Community Building.
- (v) Out of the above Social infrastructures, W.T.I, NDMC Middle School, Post Office, Sandhya (Old Age Home), NBCC maintenance Office are proposed to be retained which shall be refurbished later on.
- (vi) The details of the project components of the revised plan are as follows:
- i. The total plot area is 4,42,404.80 sqm and total construction area is 12,18,438.08 sqm. The details of the project as per EC granted and proposed amendment in the EC is as follows:

DESCRIPTION	EC OBTAINED DATED 27.11.2017	EC AMENDMENT REQUESTED	Remarks
Total Land Area	4,42,404.80 sqm	4,42,404.80 sqm	
Built up area	14,01,061.58 sqm	12,18,438.08 sqm	This includes area of 13521 sqm to be retained buildings.
No. of. Dwelling units	6,878 units	6,587 units (4727 GPRA + 1860 servant quarters)	
Plot Coverage	1,13,875.20 sqm (25.74%)	1,07,525.97 sqm (24.30 %)	
Population	59,621 nos.	55,293 nos	
No. of. Affected trees	2,490 nos.	1,600 (+/- 5 %) nos. (Excluding 224 nos already felled)	It is proposed to transplant all affected trees within the vicinity of the project site, as per the approval of the forest department, GNCTD.
Fresh Water Requirement	3,141 KLD (NDMC)	1,874 KLD (NDMC)	Reduction is due to adoption of Manual on norms & standard of MoEF & CC order no F.No.J-12011/3/2005-IA (CIE) part, dated-15.05.2007.
Sewage generation & its disposal	4,227 KLD	2,564 KLD	As per this the fresh water demand is considered as 65lpcd against 90lpcd. Flushing demand is also considered as 21lpcd against 45lpcd. Existing quantity of water supplied by NDMC is 3821KLD as per the data provided by NDMC.
	<ul style="list-style-type: none"> • Toilet Flushing • Greenbelt development • HVAC • STP technology 	<ul style="list-style-type: none"> • 2,145 KLD • 764 KLD • 953 KLD • 4,227 KLD (FAB Technology) 	<ul style="list-style-type: none"> • 1,183 KLD • 544 KLD • 558 KLD (one time) • 2,564 KLD (MBR Technology)
Excess Treated water	-	580 KLD (NDMC for gardening & horticulture purposes)	
Solid waste generation	19,863 kg/day	18,696 kg/day	
	<ul style="list-style-type: none"> • Biodegradable • Non – biodegradable • STP Sludge 	<ul style="list-style-type: none"> • 9,335 Kg/day (OWC) • 10,528 Kg/day (Authorized Recyclers) 	<ul style="list-style-type: none"> • 11,218 Kg/day (OWC) • 7,478 Kg/day (Authorized Recyclers)

	• 609 Kg/day (Manure for gardening)	• 360 Kg/day (Manure for gardening)	
Power requirement	48,041 kW	37,940 kW	

- ii. The built-up area statement of project as per EC granted and proposed amendment in the EC is as follows:

S.No	Towers	EC Obtained				EC Amendment requested			
		No. of Floor Block	No of Towers	No of Dwelling units	Total (sqm)	No. of Floor / Block	No of Towers	No of Dwelling units	Total (sqm)
Residential									
1	Type - 2	G + 9	19	1,482	91585.26	G + 9	18	1414	86456.20
2	Type - 2A					G + 9	1	59	3707.92
3	Type - 3	G + 9	18	1,404	97144.41	G + 9	17	1335	94291.95
4	Type - 3A					G + 9	1	59	4238.56
5	Type - 4 A	G + 10	10	410	49562.7	G + 9	6	233	28076.99
6	Type - 4 B	G + 10	10	420	50182.13	G + 10	13	556	66910.18
7	Type - 5 A	G + 9	4	152	27897.04	G + 10	13	559	101235.85
8	Type - 5 B	G + 10	11	462	84638.25				
10	Type - 6 A	G + 9	2	56	13548	G + 10	16	512	131703.65
11	Type - 6 B	G + 10	16	496	119669				
12	Combined Basement area				433109.54				329075.34
Sub Total (A)			90	4,882	967336.33		4,727		845696.64
Office									
1	Block - 1	G + 10	1	-	51375.64	G + 8	1	-	67874.81
2	Block - 2	G + 10	1	-	45613.14	G + 8	1	-	56610.04
3	Block - 3	G + 10	1	-	42048.57	G + 8	1	-	56230.25
4	Block - 4	G + 10	1	-	59720.09			-	-
5	SARTAC Office	G + 5	1	-	3055.81	G + 5	1	-	3135.31
6	SARTAC Hostel	G + 4	1	-	4482.14	G + 8		-	5859.17
7	Combined Basement area				137489.75				140012.75
Sub Total (B)					343785.12				329722.33

S.No	Towers	EC Obtained				EC Amendment requested				Remarks
		No. of Floor / Block	No of Towers	No of Dwelling units	Total (sqm)	No. of Floor / Block	No of Towers	No of Dwelling units	Total (sqm)	
Social Infrastructure										
1	Netaji Nagar Market	G + 2	1	-	5040.41	G + 2	1	-	7228.40	
2	Suvidha Market 1	G + 1	4	-	2565.31	G + 1	1	-	476.31	
3	Suvidha Market 2					G	1	-	476.31	
4	Vegetable Market	G	1	-	351.79	-	-	-	-	
5	Local Shopping Centre	B + G + 3	1	-	12398.95	-	-	-	-	
6	W.T.I	G + 3	1	-	1705.85	-	-	-	3266	Retained
7	N.P.CO.ED Primary School	G + 3	1	-	1744.536	-	-	-	-	
8	NDMC Middle School					-	-	-	1465	Retained
9	N.P.CO.ED Senior Secondary School	G + 3	1	-	6823.29	G+3	1	-	5848.42	
10	Sarvodayavidyalaya Sr. Sec. School	G + 3	1	-	7809.25	-	-	-	4805	Retained
11	Barat Ghar	G + 2	1	-	968.94	G + 1	1	-	762.09	

12	Grih Kalyan Kendra	G + 3	1	-	2132.19	G + 1	1	-	1331.94	
13	Community & Service Apartments	G + 7	1	-	9531.06	-	-	-	-	

S.No	Towers	EC Obtained				EC Amendment requested				Remarks
		No. of Floor / Block	No of Towers	No of DU*	Total (sq.m)	No. of Floor / Block	No of Towers	No of DU*	Total (sq.m)	
14	Social Infrastructure									
15	Post Office	G + 3	1	-	1250.86	-	-	-	1460.00	Retained
16	Dispensary	G + 3	1	-	1388.61	G+3	1	-	1302.00	
17	Zonal Health Center	G	1	-	196.84	-	-	-	-	
18	Sandhya (Old Age Home)	G + 2	1	-	2423.11	-	-	-	1297	Retained
19	NDMC Maintenance Office	G	1	-	163.94	-	-	-		
20	CPWD Training Centre	G + 1	1	-	448.35	-	-	-		
21	Maintenance Office (Earlier Grih Kalyan Kendra)	G + 1	1	-	1228.00	G + 1	1	-	1228.00	Retained
22	Community Building	-	-	-	-	Ground			107.61	
23	Gate & Guard Room etc & ESS Building	-	-	-	-				2425.00	
24	Combined Basement area				31980.99	-	-	-	9540.03	
Sub Total (C)					89940.13				43019.11	
Grand Total (A + B + C)		-	-	4882	1401061.58			4727	1218438.08	

- iii. During construction phase, the total water requirement is expected to be 358 KLD which will be met by procuring recycled /treated water from nearby STP and the sewage generated will be treated by providing mobile STP. Temporary sanitary toilets will be provided during peak labour force.
- iv. During operational phase, total fresh water demand of the project is expected to be 1,874 KLD and the same will be sourced from the existing supply of 3821 KLD by New Delhi Municipal Council (NDMC). Sewage generated (2,564 KLD) will be treated in STP of 2,564 KLD capacity based on Membrane Bio Reactor technology (MBR). 2,307 KLD of treated sewage will be recycled (1,183 KLD for toilet flushing, 544 KLD for landscaping and 558 KLD (one time) for HVAC. Excess treated sewage will be supplied to NDMC for gardening & horticulture purposes in surrounding areas. No sewage will be disposed into Municipal drain.
- v. Solid Waste generation of the project has been projected as 18,696 kg /day. The biodegradable waste (11,218 kg/day) will be processed in Organic Waste Converter and the non-biodegradable waste (7,478 kg/day) will be handed over to Authorized Recyclers. The Bio-Sludge of 360 kg/day from STP will be used as manure for gardening and green belt development.
- vi. During construction phase, the total power requirement is 4500 kVA and for operation phase of the proposed project is 37,940 kVA which will be availed from New Delhi Municipal Council (NDMC).
- vii. The total rainwater harvesting (RWH) potential estimated in the site is 8,105.33 cum during peak hour rainfall. Rain water harvesting pits of 62 nos. will be constructed within the project site for recharge of groundwater. Surplus water from the recharge pits shall be diverted to the storm water drainage network.

- viii. The parking facilities for 6,587 Nos. of two wheelers and 11,015 ECS for four wheelers is proposed to be provided as per Model Building Bye-Laws, 2016, TCPO (Town and Country Planning Organization) Norms and GPRA Norms as applicable.
- ix. Proposed energy saving measures would save about 19.967% of power per annum.
- x. It is not located within 10 km of Eco sensitive areas.
- xi. There is no court case pending against the project.
- xii. Investment/ Cost of the project is Rs. 5,466 crores.
- xiii. The Employment potential will be 7500 persons during construction phase.
- xiv. Benefits of the project: The proposed redevelopment is General Pool Residential Accommodation (GPRA) with supporting social infrastructure, General Pool Office Accommodation (GPOA) with advanced facilities under Ministry of Housing and Urban Affairs. The proposed project benefits the surroundings by providing employment opportunities both during construction and operation phase thereby enhancing the socio-economic and standard of living of the locality.

39.5.2.2. The EAC noted the following:-

- (i) The proposal is for grant of Amendment in Environmental Clearance to the project Redevelopment of General Pool Residential Accommodation (GPRA) Colony at Netaji Nagar, Delhi by M/s NBCC India Limited.
- (ii) The project/activity is covered under category 'B' of item 8(b) 'Townships and Area Development projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.
- (iii) Earlier Environmental Clearance for the project Redevelopment of General Pool Residential Accommodation (GPRA) Colony at Netaji Nagar, Delhi in favour of M/s NBCC India Limited was granted by Ministry of Environment, Forest and Climate Change vide letter F.No.21-150/2017-1A-III dated 27.11.2017 for total plot area of 4,42,404.80 sqm and total built-up area of 14,01,061.58 sqm.

39.5.2.3. *During deliberation, the Committee noted that as per the EC granted vide dated 27.11.2017, initial activities were taken up but due to writ petitions /PIL filed in Hon'ble High Court, Delhi and National Green Tribunal (NGT) against felling of trees, the Hon'ble High Court has ordered to maintain status quo in redevelopment of all seven GPRA Colonies including Sarojini Nagar on 02.07.2018 & 26.07.2018. Thereafter, MoHUA submitted an affidavit for consideration of Hon'ble High Court with regard to avoid cutting of the trees to the maximum extent possible thereby necessitating changes in layout plan, reduction in dwelling units etc. Based on the affidavit, Hon'ble High court of Delhi has ordered on 03.10.2018 that MoHUA/NBCC should be permitted to approach appropriate statutory authorities for necessary approvals of the revised proposals, which shall be considered by the said authorities in accordance with law. Accordingly, the project proponent has submitted application for amendment in the environmental clearance granted to the project.*

The Committee also noted that the project proponent has revised the water balance and reduced the requirement as per Manual on norms and standards for environment clearance of large construction projects of MoEF&CC issued vide order no F.No. J-12011/3/2005-IA (CIE) part, dated 15.05.2007. Now the fresh water demand is considered as 65 lpcd against 90 lpcd and flushing demand is considered as 21 lpcd against 45 lpcd. As per the revised water

balance, during operational phase, total fresh water demand of the project is expected to be 1,874 KLD and the same will be sourced from the existing supply of 3821 KLD in Netaji Nagar (as per certificate received from NDMC vide dated 13.09.2018).

The Committee further noted that as per the revised tree cutting/transplantation plan, out of 3,906 existing trees of different species, 1,600 (+/- 5%) trees will be transplanted and 2306 (+/- 5%) trees will be retained at the project site. Land admeasuring 21.45 Ha (14.45 +7) has already been handed over by DDA in Yamuna flood plains to Forest department, GNCTD for Compensatory Plantation against the previous tree cutting permission. Compensatory plantation of 16,056 plants of major species has already been done by the forest department on 14.45 Ha of land and 7777 nos of plants shall further be planted in the remaining 7 hectares of Land during coming monsoon.

In a query by the EAC regarding decrease in green belt area, the project proponent has informed that earlier an area of 7,390 sqm was proposed for open parking. Now in the revised proposal and area of 9,972.94 sqm has been proposed for open parking resulting in decrease in green belt area.

During deliberation, the project proponent has informed the Committee that regarding Traffic study, UTTIPEC has decided to have a long term traffic congestion mitigation measures. Accordingly, PWD, GNCTD (Road owning Agency) has been appointed to conduct a comprehensive study synchronizing with their other upcoming road infrastructure works. Before submission to UTTIPEC, as an abundant precaution, expert agencies namely IUT & UMTC have been appointed by MOHUA to make the scheme comprehensive and effective. MoHUA in their affidavit submitted to Hon'ble High court stated that Possession will be allowed to be given only after addition / alteration to road infrastructure required to maintain smooth flow of traffic.

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of amendment in environmental clearance and stipulated the following specific conditions while considering for accord of amendment in environmental clearance:

- (i) All the conditions contained in the Environment Clearance letter F.No.21-150/2017-1A-III dated 27.11.2017 shall be complied with.
- (ii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (iii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iv) The project 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.
- (v) As proposed, fresh water requirement from NDMC (as per certificate received from NDMC vide dated 13.09.2018) shall not exceed 1874 KLD. Existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project.

- (vi) Sewage shall be treated in the STP based on Membrane Bio Reactor technology (MBR). Treated sewage will be recycled and re used toilet flushing, landscaping and for HVAC (one time). Excess treated sewage will be supplied to NDMC for gardening & horticulture purposes in surrounding areas. No sewage will be disposed into Municipal drain.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 62 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (x) NBCC shall be responsible for implementation of the traffic plan that is under preparation in coordinate with PWD, GNCTD (Road owning Agency) for the impact of the re-development project. The Traffic Management plan shall be implemented simultaneously and commissioned before allowing any occupants possession and start residence in the rehabilitated accommodation. Possession will be allowed to be given only after addition / alteration to road infrastructure required to maintain smooth flow of traffic.
- (xi) As proposed, no tree cutting/felling has been proposed. However, it is proposed to transplant 1,600 (+/- 5%) trees. No tree transplantation should be carried out unless exigencies demand. Where absolutely necessary, tree transplantation shall be with prior permission from the Tree Authority constituted as per the Delhi Preservation of Trees Act, 1994 (Delhi Act No. 11 of 1994). Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted). In case of non-survival of any transplanted tree, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree) shall be done and maintained.
- (xii) A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed, 1,81,384 (41% of the plot area) area shall be provided for green area development.
- (xiii) The project is recommended for grant of amendment in Environmental Clearance subject to final outcome in the W.P.(C) No. 6680/2018 in the matter of Dr. Kaushal Kant Mishra Vs Union of India & Ors pending before the Hon'ble High Court of Delhi.

Agenda item No. 39.5.3.**Construction of New ATC Tower cum Technical Block at S.V.P.I. Airport, Ahmadabad by M/s Airport Authority of India, Ahmadabad - Amendment in Terms of Reference****(IA/GJ/MIS/84896/2018; F.No.10-83/2018-IA-III)**

39.5.3.1. The project proponent and the accredited Consultant M/s Gaurang Environmental Solutions Pvt. Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The Terms of Reference for the project has been granted by MoEFCC vide file No.10-83/2018-IA-III dated 11.12.2018. It seems to be some revision in the proposed project with increased built-up area from 10,520.5 sqm to 13,569.75 sqm and ground coverage from 1,512.25 sqm to 1,657.5 sqm and landscape area is changed from 3,338.5 sqm. (33.92%) to 3,193.5 sqm (32.45%). The total plot area for the project will be same as per the granted ToR.
- (ii) Revised Project summary for new ATC tower cum technical block is as follows:

S. No.	Description	As per Granted ToR	Proposed Revision
1.	Plot area	9,840 sqm	9,840 sqm
2.	Ground Coverage	1,512.25 sqm	1,657.5 sqm
3.	Built Up Area (including Headroom & core of Tower)	10,520.5 sqm	13,569.75 sqm
4.	Green Area	3,338.5 sqm (33.92%)	3,193.5 sqm (32.45%)
5.	Road and Open Area (excluding surface parking area)	3,466.65 sqm	3,466.5 sqm
6.	Surface parking Area	1,522.595 sqm (32 Cars & 64 Scooters)	1,522.5 sqm (50 Two Wheelers & 100 Four Wheelers)
7.	No. of Floors	15	G +14

39.5.3.2. *During deliberations, the EAC noted the following:-*

- (i) The proposal is for grant of Amendment in Terms of Reference to the project "Construction of New ATC Tower cum Technical Block" at S.V.P.I. Airport, Ahmadabad by M/s Airport Authority of India, Ahmadabad.
- (ii) The project/activity is covered under category A of item 7(a) 'Air Ports' of the Schedule to the EIA Notification, 2006 and its amendments, and requires appraisal at Central level by sectoral EAC.
- (iii) Terms of Reference for the project was granted by MoEF&CC vide F.No.10-83/2018-IA-III dated 11.12.2018.

39.5.3.3. *During deliberation, the Committee was informed by the project proponent that ToR to the project was granted by MoEF&CC vide F.No.10-83/2018-IA-III dated 11.12.2018 for preparation of EIA-EMP report along with public hearing. Now, due to revision in the project planning including increase in ground coverage and built-up area (ATC Tower, proposal for amendment in ToR has been made.*

The Committee deliberated upon the information provided by the project proponent and after being satisfied with the submission of project proponent recommended for amendment in Terms of Reference granted by MoEFCC vide F.No.10-83/2018-IA-III dated 11.12.2018 as follows:

S. No.	Description	As per Granted ToR	Proposed Revision	Amendment Recommended
1.	Plot area	9,840 sqm	9,840 sqm	No change
2.	Ground Coverage	1,512.25 sqm	1,657.5 sqm	Agreed
3.	Built Up Area (including Headroom & core of Tower)	10,520.5 sqm	13,569.75 sqm	Agreed
4.	Green Area	3,338.5 sqm (33.92%)	3,193.5 sqm (32.45%)	Agreed
5.	Road and Open Area (excluding surface parking area)	3,466.65 sqm	3,466.5 sqm	Agreed
6.	Surface parking Area	1,522.595 sqm (32 Cars & 64 Scooters)	1,522.5 sqm (50 Two Wheelers & 100 Four Wheelers)	Agreed
7.	No. of Floors	15	G +14	Agreed

Agenda item No. 39.5.4.

“Redevelopment of Existing Motel building” at Khasra No. 220 min, 221, 221/1, 223/2 and 225 min Village Sultanpur, Delhi by M/s Unique Innovation Pvt Ltd - Environmental Clearance

(IA/DL/MIS/78285/2018; F.No.21-117/2018-IA-III)

39.5.4.1. The project proponent and the accredited Consultant M/s Perfect Enviro Solutions Pvt Ltd gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude 28°30'06.91"N and Longitude 77°10'14.10"E
- (ii) The project is a Redevelopment project. Total plot area is 14,838.49 sqm. Net plot area of the project will be 12,558.216 sqm. The total FAR Area of the project will be 49,222.28 sqm. Total FAR proposed for project will be 21,920.516 sqm. The Non-FAR will be 3,209.85 sqm, total basement area will be 19,433.129 sqm. The built-up area of the project after redevelopment will be 44,563.495 sqm. Total 2 nos. of main towers are proposed and maximum no. of floors will be 4B+G+8. Total no. of guest rooms will be 152 nos. The project will comprise of various activities i.e. Guest Rooms, Banquet Halls, Pre function area, Spa fitness centre, commercial. The maximum height of the building will be 34.25 m. Details of the project are as follows:

S. No.	PARTICULARS	Unit	Area Details
1.	Plot Area	sqm	14,838.49
2.	Net plot area	sqm	12,558.216
3.	Ground coverage (Permissible)(40% of net area)	sqm	5,023.286
4.	Total Ground Coverage Achieved	sqm	4,789.55
FAR Area (Permissible)			
5.	FAR (Permissible) (Motel)	sqm	21,976.878
6.	FAR (Permissible) (Commercial Area)	sqm	4,384.103
7.	Total Permissible FAR	sqm	26,360.981
FAR Proposed			
8.	FAR (Proposed) (Motel)	sqm	17,554.018
9.	FAR (Proposed)(Commercial Area)	sqm	4,366.498
10.	Total FAR Proposed-(A)	sqm	21,920.516
11.	Total Non FAR-(B)	sqm	3,209.850
Basement			

12.	Basement - 1	sqm	5,926.346
13.	Basement - 2	sqm	2,082.622
14.	Basement - 3	sqm	5,667.231
15.	Basement - 4	sqm	5,756.930
16.	Total Basement Area-(C)	sqm	19,433.129
17.	Built-up Area in sqm (FAR+NON-FAR+ BASEMENT AREA) (A+B+C)	sqm	44,563.495
18.	Green Area (30.30%)	sqm	3,805.136
19.	Road Area including surface parking	sqm	3,963.527
20.	No. of Floors	-	G+8
21.	No. of tower	-	2
22.	No. of Basement	-	4
23.	Height of Building	m	34.25
24.	No. of guest rooms	-	152
25.	Total Population	-	2790
26.	No. of Rain Water Harvesting pits	-	4
27.	Parking Required	ECS	659
28.	Parking Provision	ECS	669
29.	Power Load	KW	1584
30.	DG Sets	KVA	3 x 750

- (iii) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water 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 labour force.
- (iv) During operational phase, total water demand of the project is expected to be 303 KLD out of which fresh water requirement will be 176 KLD which will be sourced through Delhi Jal Board (DJB). The total waste water will be 141 KLD shall be treated in STP of capacity 170 KLD. Treated water of 127 KLD will be reused in flushing, DG & HVAC cooling and gardening purposes. It will be a zero-discharge complex.
- (v) Total solid waste generation will be approximately 510 kg/day out of which 204 kg/day of organic waste will be treated in organic waste converter, 153 kg/day recyclable waste will be given to approved recycler and 153 kg/day of plastic waste also will be given to approved recycler. 24 ltrs/month used oil shall be generated and 3-4 kg/month E-waste will be generated. Battery waste shall be generated from inverters & UPS. It will be properly managed as per Batteries (Management and Handling) Rules 2001.
- (vi) The total power requirement will be 1584 KW which will be met by BSES. In case of power failure, power backup will be provided through DG sets. DG set of 3x750 KVA will be located on the Basement. Hence, to avoid the air emissions, proper stack height shall be provided as per norms prescribed by CPCB.
- (vii) Total 4 Nos. of RWH pits shall be installed to recharge the ground water.
- (viii) Parking Requirement will be 659 ECS and provision will be 669 ECS shall be provided
- (ix) Energy Conservation measures: Day light provision shall be made by using openable windows (use of sunlight in lieu of conventional power). LED lights are proposed for common areas like corridors, lift and lobby. Transformers shall be having efficiencies as per ECBC Norms. For HVAC Water Cooled Chillers with centrifugal machines shall be installed. Chiller pumps are with Variable Frequency Drive (VFD). These bring in an

advantage of diversified occupancy & operations & also results in 30% saving in power consumption & an energy saving of 20%.

- (x) Eco Sensitive Areas: Asola wildlife sanctuary lies within 10 km radius. It is located at 2.85 km away from project site in SE direction.
- (xi) NBWL Clearance is not required.
- (xii) Forest Clearance is not required.
- (xiii) There is no Court case pending against the project.
- (xiv) Cost of the project is Rs. 25 Crores
- (xv) Employment potential: Labourers during construction phase 150 no. and about 485 personnel as staff during operation phase.
- (xvi) Benefits of the project: Employment opportunities provided due to the project will lead to better quality of life and will also set a standard for future developments in the area. The project will led to increase in the infrastructure of the area and encouraged others for further development of the area. It will provide healthy, green & safe premises for living. People have more open and green spaces, bringing them closer to nature. People live, stay and recreate; and have immediate access to entertainment facilities in a single, spacious and secured area. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.5.4.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project “Redevelopment of Existing Motel building” at Khasra No. 220 min, 221, 221/1, 223/2 and 225 min Village Sultanpur, Delhi by M/s Unique Innovation Pvt Ltd for plot area 14,838.49 and total built-up area of 44,563.495 sqm.
- (ii) The project/activity is covered under category ‘B’ of item 8(a) ‘Building and Construction projects’ of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.5.4.3. *The Committee during deliberation noted that the Motel and Restaurant Activity was granted Consent to Operate (Renewal) by Delhi Pollution Control Committee vide Consent Order No. DPCC/CMC/2014/34159 dated 15.05.2014 which was valid up to 02.03.2019. The project proponent confirmed before the Committee that the present water requirement is being fulfilled by water supply connection from Delhi Jal Board and existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project. The Committee was also informed that as per the notification vide S.O. 2996(E) dated 11.09.2017 of MoEF&CC, Eco-sensitive Zone of Asola Bhati Wildlife Sanctuary has been notified and as per the notification, the Extent and boundaries of Eco-sensitive Zone of Asola Bhati Wildlife Sanctuary shall be of 15.55 square kilometers with an extent upto one kilometer around the Asola Bhatti Wildlife Sanctuary. The instant proposal is outside the Eco-sensitive Zone of Asola Bhati Wildlife Sanctuary and does not attract NBWL clearance.*

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the

*said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) As proposed, fresh water requirement from Delhi Jal Board shall not exceed 176 KLD for which project proponent has already connection for the existing Motel and Restaurant. Existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project.
- (v) 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, DG & HVAC cooling and gardening purposes. As proposed, it shall be a zero-discharge complex.
- (vi) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (vii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (viii) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 4 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (ix) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed adequate area 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.
- (x) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried

out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- (xi) The project proponent shall comply super ECBC requirement of ECBC 2017.
- (xii) As proposed, no tree cutting has been proposed in the instant project, only 4 trees have been proposed to be transplanted. Where absolutely necessary, tree transplanting shall be with prior permission from the Concerned Regulatory Authority / Forest Department. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 3,805.139 sqm (30.30% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 0.50 Crores (@ 2% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as sanitation and waste management, skill development and computer education and plantation and horticulture. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.5.5.

Expansion of "Sri Balaji Action Medical Institute" at Facility Centre No. 34, Paschim Puri, New Delhi by M/s Lala Munni Lal Mange Ram Charitable Trust - Environmental Clearance (IA/DL/MIS/91906/2019; F.No.21-7/2019-IA-III)

39.5.5.1. The project proponent and the accredited Consultant M/s Perfact Enviro Solutions Pvt Ltd gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude: 28°40'25.42"N and Longitude: 77°06'37.93"E.
- (ii) The proposed project is an Expansion project. Since, the hospital complex was constructed before 2006, Environmental Clearance was not applicable. Now, due to increase the capacity of handling of patients and increase in beds, a new tower is proposed hence built up area is increased.
- (iii) Total plot area of the project is 23,400 sqm and built-up area will be 83,454.81 sqm. No. of beds after expansion will be 500 and maximum height of the building will be 39.5 m. Project details are as follows:

Particulars	Unit	Existing	Total after Expansion
Plot Area	sqm	23,400	23,400
Ground coverage permissible (40% of plot area)	sqm	9,360	9,360
Ground coverage achieved (for Hospital)	sqm	5,514.260	8,999.6
Permissible FAR (@ 250% of plot area)	sqm	58,500	58,500

Achieved FAR	sqm	19,806.35	49,859.79
Non- FAR Area	sqm	4,462.66	33,595.02
Basement -1	sqm	4,059.06	8,619.83
Basement -2	sqm	-	4,106.63
Basement - 3	sqm	-	4,061.75
Total	sqm	4,059.06	16,788.21
MLCP Area	sqm	-	5,822.70
Built-up area (FAR + Non-FAR+ Basement area)	sqm	23,272.17	83,454.81
Total green area	sqm	5,287.61	5,287.61
Total open & road area	sqm	9,312.76	9,312.76
No of towers	No.	2	3
Number of basements	No.	1	4
Maximum No. of floors	No.	1B+G+4	3B+G+9
MLCP	No.	-	5
Max. height of building (up to terrace level)	m	19.1	39.5

- (iv) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water 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 labour force.
- (v) During operational phase, total water demand of the project is expected to be 455 KLD out of which fresh water demand is 133 KLD will be met through 117.85 KLD from Delhi Jal Board and 15.15 KLD from tanker supply. The total waste water generation will be 282 KLD and will be reused in flushing, gardening & DG & HVAC Cooling. The waste water shall be treated in Sewage Treatment Plant (STP) of capacity 600 KLD and 1 KLD Laboratory waste water will be treated in ETP of 3 KLD and after waste water treatment in ETP shall be discharge to sewer line.
- (vi) After expansion, 213.5 Tons/annum out of which 128.1 Tons/annum will be biodegradable waste and shall be treated in Organic Waste Converter within the complex, non-biodegradable waste generated will be 42.7 Tons/annum and Plastic waste will be 42.7 Tons/annum shall be handed over to authorized recycler and Used Oil of 0.129 kL/annum shall be collected in leak proof containers at isolated place and then it will be given to approved recycler. Bio medical waste of capacity 68.4 Tons/annum will be handed over to state approved biomedical waste vendor for final disposal.
- (vii) The total power requirement will be 1639 kW which will be met by BSES. The DG sets of capacity 3 x 750 kVA are located in a separate acoustically enclosed DG set room in the hospital and the same shall be followed after expansion. Hence, to avoid the emissions, stack height of 6 m above roof level for each D.G. sets shall be installed to reduce the air emissions, meeting all the norms prescribed by CPCB. Total 2 nos. of RWH pits will be constructed to recharge the ground water (out of which 1 no. of pit already in the hospital).
- (viii) Total Parking Requirement for the project is 872 ECS & 886 ECS parking shall be provided within the Basement, Surface & Multi-level car parking.
- (ix) No Eco Sensitive area lies within the 10 km radius of the project site. Hence, NBWL Clearance is not required.
- (x) Forest Clearance is not required.

- (xi) There is no Court case pending against the project.
- (xii) Cost of the project is Rs. 150 Crores
- (xiii) Employment potential: Labourers during construction phase 150 no. and about 720 personnel as hospital staff during operation phase.
- (xiv) Benefits of the project: Employment opportunities provided due to the project will lead to better quality of life and will also set a standard for future developments in the area. The project will led to increase in the infrastructure of the area and encouraged others for further development of the area. The Hospital will boast some of the best medical care infrastructure in the country. It will render tertiary and specialised treatment to general population. It will provide healthy, green & safe premises for living. People have more open and green spaces, bringing them closer to nature. People live, stay and recreate; and have immediate access to entertainment facilities in a single, spacious and secured area. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.5.5.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Expansion of “Sri Balaji Action Medical Institute” at Facility Centre No. 34, Paschim Puri, New Delhi by M/s Lala Munni Lal Mange Ram Charitable Trust for plot area 23,400 and total built-up area of 83,454.810 sqm.
- (ii) The project/activity is covered under category ‘B’ of item 8(a) ‘Building and Construction projects’ of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.5.5.3. *The Committee was informed that the land has been allotted by Delhi Development Authority vide deed no. 13525 dated 15.01.1996 to Lala Munni Lal Mange Ram Charitable Trust for development of Hospital and hospital related infrastructures. Since, the hospital complex was constructed before 2006, Environmental Clearance was not applicable for the present operational complex. Existing no. of beds are 250 and the Project Proponent proposed to expand to a total of 500 Beds therefore a new block shall be constructed within the project premises. Consent to Operate for existing hospital was issued by DPCC/WMC/2016/37157 and was valid upto 25.07.2018. The project proponent has applied to the DPCC for renewal of Consent to Operate and the application is under consideration with DPCC. The project proponent confirmed before the Committee that the present water requirement is being fulfilled by water supply connection from Delhi Jal Board and existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project.*

*The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure- 8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) As proposed, fresh water requirement from Delhi Jal Board shall not exceed 117.85 KLD for which project proponent has already connection for the existing Hospital. Existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project.
- (v) 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, gardening, DG & HVAC cooling purposes. No excess treated water from STP shall be discharged to municipal drain.
- (vi) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (vii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (viii) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 6 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (ix) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area 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.
- (x) Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried

out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 5,287.610 sqm (22.60% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 1.125 Crores (0.75% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as skill development, waste management, education and medical check-up etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.5.6.

Common Hazardous Waste and Bio-medical Waste Treatment Facility at Harohalli Industrial Area - 2nd Phase, Harohalli Village, Ramanagara District, Karnataka by M/s Maridi Eco Industries Private Limited - Environmental Clearance

(IA/KA/MIS/71634/2017; F.No.10-2/2018-IA-III)

39.5.6.1. The project proponent and the accredited Consultant M/s Ramky Enviro Services Pvt Ltd gave a detailed presentation on the salient features of the project and informed that:

- (i) The proposed Common Hazardous Waste and Bio-Medical Waste Treatment Facility will be established with the following components:(a) Rotary Kiln Incinerator - 1 x 500 kg/hr (for treatment of both hazardous and biomedical waste) (b) Static Incinerators - 2 x 250 kg/hr (for treatment of bio-medical waste only) (c) Autoclave - 5 TPD and (d) Shredder - 1000 kg/hr. In addition to hazardous waste and bio-medical waste, Maridi proposes to manage household hazardous waste and different kinds of non-hazardous waste streams (through incineration) including: (a) commercial and institutional waste (b) expired/rejected branded and packaged products (c) narcotics/drugs from customs/police department etc. Plastic recycling unit will also be established for recycling of shredded plastic after autoclave.
- (ii) The total waste handling capacity of the proposed facility will be 25 TPD. The proposed facility will handle up to 20 TPD of Bio-Medical waste, up to 5 TPD of Hazardous Waste, up to 2 TPD of non-hazardous commercial waste and up to 1 TPD of household domestic hazardous waste. However the total waste handled in a day will not exceed 25 TPD.
- (iii) Water requirement will be 80 KLD and will be met through KIADB industrial water

supply/tankers/bore well. The wastewater generated shall be treated in an ETP and the proposed facility will utilize Zero Liquid Discharge (ZLD) system and no wastewater/treated water shall be discharged from the facility. The treated water shall be used primarily in APCDs and in Greenbelt.

- (iv) The power requirement will be 300 KW which will be supplied by Bangalore Electricity Supply Company Limited (BESCOM). DG set of 375 kVA will be used for emergency power backup.
- (v) Greenbelt will be developed for the proposed project in an area of 3,245 sqm (33%) of the site area (2.43 Acre).
- (vi) Investment/Cost of the project: Rs. 15 Crores
- (vii) Employment potential: Around 60 skilled and unskilled persons are required for the proposed facility.
- (viii) Benefits of the project: The proposed facility will help health care establishments and industries to dispose off their bio-medical waste/incinerable hazardous waste in a scientific manner.

39.5.6.2 During deliberations, the EAC noted the following:-

- (i) The proposal is for Common Hazardous Waste and Bio-medical Waste Treatment Facility at Harohalli Industrial Area - 2nd Phase, Harohalli Village, Ramanagara District, Karnataka by M/s Maridi Eco Industries Private Limited.
- (ii) The project/activity is covered under category A of item 7(d) 'Common hazardous waste treatment, storage and disposal facilities (TSDFs)' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level by sectoral EAC.
- (iii) Terms of Reference was granted by MoEFCC vide letter F.No 10-2/2018-IA.III dated 28th February, 2018.
- (iv) Public Hearing was conducted on 19th November, 2018.

39.5.6.3. *During deliberation, the Committee was informed that M/s Maridi Eco Industries Pvt Ltd has already been operating a Common Bio-Medical Waste Treatment Facility (CBMWTF) since June 2001 in an area of 4 acres at Sy no. 1/34 & 1/35, Gabbadi Kaval, Harohalli (V), Kanakapura Road, Ramanagar (D), Karnataka. Considering the increase in waste generation quantity over the years and to adopt modern technology, Maridi is proposing to relocate, expand the existing capacity and include the hazardous waste incineration in the proposed plant in an area of 2.43 acres (9835 sqm) at Plot no. 312-A2 & 312-A2 (Part), 2nd Phase, KIADB Harohalli Industrial Area, comprised in Sy no. parts of 799 & 800, Harohalli (V), Harohalli Hobli, Kanakapura (T), Ramanagara (D).*

The Committee noted that as per Terms of reference letter dated 28.02.2018, the project proponent has to submit the Certified Compliance Report issued by the MoEF&CC, Regional Office or concerned Regional Office of Central Pollution Control Board or the Member Secretary of the respective State Pollution Control Board for the conditions stipulated in the earlier environmental clearance issued for the project. However, the project proponent has not submitted the same. The project proponent informed the Committee that this is a Greenfield project and Certified Compliance Report will not be applicable for the instant project.

The Public consultation was conducted by KSPCB at project site on 19.11.2018. The issues were raised regarding air/water pollution, existing slaughter house, employment

opportunities, improvement in social and economic status of people etc. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report. The Committee asked the project proponent to submit the following:

- (i) Submit closure plan for the existing site.
- (ii) Submit revised water balance for the proposed project.
- (iii) Submit CER plan for the proposed project.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Agenda item No. 39.5.7.

Expansion of “Action Cancer Hospital” at A-4, Paschim Vihar, Near Paschim Vihar East Metro Station, New Delhi by M/s Manav Sevarth Trust - Environmental Clearance

(IA/DL/MIS/91893/2019; F.No.21-8/2019-IA-III)

39.5.7.1. The project proponent and the accredited Consultant M/s Perfect Enviro Solutions Pvt Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude: 28°40'26.36” N and Longitude: 77°06'41.50” E.
- (ii) The proposed project is an Expansion project. Since, the hospital complex was constructed before 2006, Environmental Clearance was not applicable. Now, due to increase the capacity of handling of patients and increase in beds, two towers are proposed results in increase in built up area. Hence, proposal for Expansion of the Hospital Complex has been made.
- (iii) Total plot area of 10,000 sqm and built-up area of the project will be 33,021.717 sqm. No. of beds after expansion will be 120 and maximum height of the building will be 32.40 m. The details are as follows:

S. No.	Particulars	Unit	Total after expansion
1.	Plot area	sqm	10,000 (1.0 Ha)
2.	Project cost	Rs.	50 Crore
3.	Permissible ground coverage	sqm	4,000.000
4.	Permissible ground coverage for parking	sqm	500.000
5.	Permissible total ground coverage for parking and hospital	sqm	4,500.000
6.	Permissible ground coverage for Atrium	sqm	1,000.00
7.	Proposed ground coverage	sqm	4,286.46
8.	Proposed ground coverage for parking	sqm	500.000
9.	Proposed ground coverage for parking and hospital	sqm	3,887.456
10.	Proposed ground coverage for atrium	sqm	399.004
11.	Permissible FAR	sqm	25000.000
12.	Proposed FAR- A	sqm	21123.831
	Hospital Block	sqm	15311.290
	Residential Block	sqm	5812.539
13.	Non-FAR- B	sqm	2,789.044
	Basement-I	sqm	2,394.633
	Basement-II	sqm	1,411.425
	Basement-III	sqm	400.232
	Basement-IV	sqm	400.232
14.	Total Basement Area-C	sqm	4,606.522
15.	Multilevel Car Parking Area (Excluding Area)-D	sqm	4,502.320
16.	Built-up Area (A+B+C+D)	sqm	33,021.717

- (iv) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water 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 labour force.
- (v) During operational phase, total water demand of the project is expected to be 123 KLD out of which fresh water demand is 54 KLD will be met through Delhi Jal Board and tanker supply and 68 KLD of treated water from STP will be reused in flushing, gardening & DG & HVAC Cooling. The total waste water generation will be 79 KLD from Domestic and Flushing uses & 0.5 KLD from Laboratory which will be treated in STP of 600 KLD Capacity & rest 3 KLD of excess treated wastewater will be discharged into sewer line.
- (vi) After expansion, total 72 tons/annum of solid waste shall be generated from the hospital. Biodegradable waste of 43 tons/annum shall be treated in Organic waste converter within the complex and non- biodegradable waste of 14 tons/annum and recyclable waste of 14 tons/annum will be given to approved vendor. 0.19 kL/annum (16 litres/month) of used oil shall be generated. E-waste generation shall be 0.024 -0.036 tons/annum which will be given to Authorised recycler. Biomedical waste generation from beds will be 16.4 tons/annum after expansion which will be given to authorized vendor.
- (vii) The total power requirement of the complex is 500 KW which will be met by BSES. In case of power failure, power backup shall be provided through D.G sets of 1 X 750 kVA (Existing) and 1x750 kVA (Proposed). Hence to reduce the air emissions proper stack height shall be provided as per prescribed norms by CPCB.
- (viii) Total 2 nos. of RWH pits will be constructed to recharge the ground water (out of which 1 no. of pit is already in the hospital).
- (ix) Total Parking requirement is 358 ECS. Total parking provision will be 368 ECS.
- (x) No Eco Sensitive area lies within the 10 km radius of the project site. Hence, NBWL Clearance is not required.
- (xi) Forest Clearance is not required.
- (xii) There is no Court case pending against the project.
- (xiii) Cost of the project is Rs. 50 Crores
- (xiv) Employment potential: Labourers during construction phase 150 no. and about 463 personnel as hospital staff during operation phase.
- (xv) Benefits of the project: Employment opportunities provided due to the project will lead to better quality of life and will also set a standard for future developments in the area. The project will led to increase in the infrastructure of the area and encouraged others for further development of the area. The Hospital will boast some of the best medical care infrastructure in the country. It will render tertiary and specialised treatment to general population. It will provide healthy, green & safe premises for living. People have more open and green spaces, bringing them closer to nature. People live, stay and recreate; and have immediate access to entertainment facilities in a single, spacious and secured area. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.5.7.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Expansion of “Action Cancer Hospital” at A-4, Paschim Vihar, Near Paschim Vihar East Metro Station, New Delhi by M/s Manav Sevarth Trust for plot area 10,000 and total built-up area of 33,021.717 sqm.
- (ii) The project/activity is covered under category ‘B’ of item 8(a) ‘Building and Construction projects’ of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.5.7.3. *The Committee was informed that the hospital complex was constructed before 2006, Environmental Clearance was not applicable and the project is having CTO from DPCC. Now to increase the capacity of handling of patients and increase in beds, in the existing complex, two new towers will be constructed. Hence, 23,398.167 sqm will be added to existing hospital thereafter total Built-up area will be 33,021.717 sqm. Total beds after expansion shall be 270 from existing 200 beds. Consent to Operate for existing hospital was issued by DPCC/WMC/2016/37169 and was valid upto 18.12.2018. The project proponent has applied to the DPCC for renewal of Consent to Operate and the application is under consideration with DPCC. The project proponent confirmed before the Committee that the present water requirement is being fulfilled by water supply connection from Delhi Jal Board and existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project*

*The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure- 8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) As proposed, fresh water requirement from Delhi Jal Board shall not exceed 54 KLD for which project proponent has already connection for the existing Hospital. Existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project.
- (v) 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, gardening, & HVAC cooling purposes. No excess treated water from STP shall be discharged to municipal drain.

- (vi) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (vii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (viii) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 2 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (ix) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area 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.
- (x) Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 2,255.879 sqm (22.60% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 0.5 Crores (1.0% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as clean drinking water, skill development etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly

compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.5.8.

Proposed expansion of Odisha Waste Management Project (Division of Ramky Enviro Engineers Ltd) at Plot No. 420 / 648 / 1 under Khata no. 61, Village Kanchichuan, Tehsil Sukinda, District Jajpur, Odisha by M/s Ramky Enviro Engineers Limited - Environmental Clearance

(IA/OR/MIS/90750/2008; F.No.10-10/2009-IA-III (Pt.))

39.5.8.1. The project proponent and the accredited Consultant M/s Ramky Enviro Services Pvt Ltd gave a detailed presentation on the salient features of the project and informed that:

- (i) Odisha Waste Management Project (a Division of Ramky Enviro Engineers Ltd) has proposed for expansion of existing Common Hazardous Waste Treatment Storage and Disposal Facility (CHWTSDF) to Integrated Common Hazardous Waste Treatment Storage and Disposal Facility (ICHWTSDF) in an area of 70 Acres located at Plot No. 420/648/1, Kanchichuan village, Post Mangalpur, Tehsil Sukinda, District Jajpur, Odisha allotted by Industrial Development Corporation of Odisha.
- (ii) Proposed project activities consists of collection, transportation, treatment, storage, re-use, recycle, blending and disposal of industrial hazardous wastes, bio-medical waste, spent solvent recycling, used oil recycling, alternate fuel & raw material facility (AFRF), lead recycling, paper recycling, plastic recycling, and e-waste management facility. The existing TSDF facility has current capacity of 75,000 TPA. It has now proposed for expansion of facility and up gradation of capacities to secured landfill (DLF)-82 TPD, stabilization (LAT) - 411 TPD, incineration (INC) - 27 TPD, biomedical waste- 12.5 TPD, alternative fuel and raw material 55 TPD, E-waste- 82 TPD, used oil recycling - 54 KLD, spent solvent recycling - 27 KLD, lead recycling - 65 TPD, paper recycling - 10 TPD, plastic recycling - 10 TPD facilities.
- (iii) Water requirement for the project will be 170 KLD and will be sourced from Ground Water Sources/ tankers. The effluents generated will be about 23 KLD which will be treated in ETP. 21 KLD treated waste water will be reused in the process. The sludge generated in the ETP shall be disposed in the secured landfill as per landfill disposal regulations. 7 KLD from domestic sewage will be treated in septic tank followed by soak pit.
- (iv) Power requirement for the facility will be 1000 KVA and sourced from North Eastern Supply Company of Odisha Limited (NESCO).
- (v) The project is proposed in an area of 70 acres, green belt will cover 33% of the total area.
- (vi) Terms of Reference was granted by MoEFCC vide letter F.No 10-10/2009-IA.III dated 12th September, 2017.
- (vii) Investment/Cost of the project: Rs. 150 Crores
- (viii) Employment potential: Man power for the proposed project during construction and operation phase will be skilled manpower - 40 and unskilled manpower -110.
- (ix) Benefits of the project: Better management of hazardous wastes.

39.5.8.2. During deliberations, the EAC noted the following:-

- (i) The proposal is for proposed expansion of Odisha Waste Management Project (Division of Ramky Enviro Engineers Ltd) at Plot No. 420/ 648/1 under Khata no. 61, Village Kanchichuan, Tehsil Sukinda, District Jajpur, Odisha by M/s Ramky Enviro Engineers Limited.
- (ii) The project/activity is covered under category A of item 7(d) 'Common hazardous waste treatment, storage and disposal facilities (TSDFs)' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level by sectoral EAC.
- (iii) Terms of Reference was granted by MoEFCC vide letter F.No 10-10/2009-IA.III dated 12th September, 2017.
- (iv) Public Hearing was conducted on 06th November, 2018.

39.5.8.3. *During deliberation, the Committee noted that public consultation was conducted by KSPCB at project site on 06.11.2018. The issues were raised regarding employment opportunities to locals, contamination in drinking water, plantation activity, development of healthcare and cleanliness facility in nearby area etc. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.*

The EAC deliberated on the certified compliance report letter No. 101-490/EPE/237 dated 22.01.2018 issued by the MoEF&CC's Regional Office (ER), Bhubhneswar and action taken submitted by the project proponent vide letter dated 15.02.2018 for the partially/not complied point. The Committee was not satisfied with the action taken report and asked the project proponent to submit following:

- (i) Submit updated action taken report on issues which have been stated to be partially complied or non/not complied in the certified compliance report issued.
- (ii) Submit revised CER plan for the proposed project.

In view of the foregoing observations, the EAC recommended to defer the proposal. The proposal shall be reconsidered after the above details are addressed and submitted.

Agenda item No. 39.5.9.

Expansion of "Radisson Blu Hotel" at Plot No.4, Sector-13, Dwarka, New Delhi by M/s Divine Infracon Private Limited - Environmental Clearance

(IA/DL/MIS/86403/2008; F.No.21-9/2019-IA-III)

39.5.9.1. The project proponent and the accredited Consultant M/s Perfact Enviro Solutions Pvt Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude: 28°35'46.78" N and Longitude: 77°02'10.55" E.
- (ii) This is an expansion project. Earlier Environmental Clearance was granted by MoEF for the developments of "Indus Hotel & spa" vide letter No. 21-97/2008-IA-III dated 28.05.2008 for plot area of 15,367 sqm (1.5637 ha.) and built-up area of 65,303.78 sqm. The Hotel for which Environmental Clearance had been granted is operational phase. Now, due to increase in FAR, the built-up area will be increased from 65,303.78 sqm to 85,791.594 sqm. Therefore, proposal has been applied for Environmental Clearance for the expansion of the project.

- (iii) The total plot area 15,367 sqm. Total FAR area will be 34,572.128 sqm, Non-FAR area will be 20,920.122 sqm and Basement area will be 30,299.344 sqm. Total built-up area will be 85,791.594 sqm. Total 325 nos. of Guest rooms already existing in hotel and maximum no. of floors will be G+10. The maximum height of the building will be 43.1 m.
- (iv) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water 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 labour force.
- (v) During operational phase, total water demand of the project is expected to be 616 KLD out of which fresh water demand 337 KLD which will be sourced by Delhi Jal Board and remaining from recycled water. The total waste water generation will be 266 KLD from Domestic and flushing uses and 27 KLD from Kitchen. The waste water shall be treated in Sewage Treatment Plant (STP) of capacity 210 KLD (already installed) and 150 KLD (proposed) and Kitchen waste will be treated in Effluent Treatment Plant (ETP) capacity of 30 KLD. 279 KLD of treated water from STP will be reused in flushing, gardening and HVAC cooling purposes and 26 KLD treated water from ETP will be discharge to the Sewer line.
- (vi) Solid waste generation from the project will be 339.7 tons/annum out of which biodegradable waste will be 135.9 tons/annum shall be treated in Organic Waste Converter within the complex, non-biodegradable waste will be 101.9 tons/annum and Plastic waste will be 101.9 tons/annum will be handed over to approved authorized recycler. Used Oil will be 0.288 kL/annum shall be collected in leak proof containers at isolated place and then it will be given to approved recycler. E- Waste of capacity 0.024 tons/annum will be handed over to approved authorized recycler.
- (vii) The total power requirement will be 3200 kW which will be sourced through BSES. In case of power failure, power backup will be provided through DG sets of 2x1500 kVA. Hence to reduce the air emissions proper stack height shall be provided as per prescribed norms by CPCB.
- (viii) Total 3 Nos. of RWH pits shall be installed to recharge the ground water.
- (ix) Parking Requirement for the project will be 1037 ECS & Parking provision will be 1075 ECS shall be provided as Basement parking (I, II, III) & Surface parking.
- (x) Total 3,073.4 sqm (20%) of organized green area will be developed within the project.
- (xi) Energy Conservation measures: Day light provision shall be made by using openable windows (use of sunlight in lieu of conventional power). LED lights are proposed only for common areas like corridors, lift, and lobby. Transformers will be having efficiencies as per ECBC Norms. For HVAC Water Cooled Chillers with centrifugal machines have been installed. Chiller pumps are with Variable Frequency Drive (VFD). These bring in an advantage of diversified occupancy & operations & also results in 1% saving in power consumption & an energy saving of 1%.
- (xii) Solar Measures: External street lighting shall be provided by standalone solar panel. Solar Water Heater will be used to meet hot water requirement of the project. The layouts of buildings are designed to maximize the potential for use of solar lighting per day devices. The space heating load will be minimized using solar structure and suitable buildings envelop material. Uses of incandescent lamp and halogen lamps shall be avoided and energy efficient LEDs shall be used for all common area.

- (xiii) No Eco Sensitive area lies within the 10 km radius of the project site. Hence, NBWL Clearance is not required.
- (xiv) Forest Clearance is not required.
- (xv) There is no Court case pending against the project.
- (xvi) Cost of the project is Rs. 523.36 Crores (including Rs. 66.12 crores for expansion project).
- (xvii) Employment potential: Labourers during construction phase 210 no. and about 694 personnel as staff during operation phase.
- (xviii) Benefits of the project: Employment opportunities provided due to the project will lead to better quality of life and will also set a standard for future developments in the area. The project will led to increase in the infrastructure of the area and encouraged others for further development of the area. It will provide healthy, green & safe premises for living. People have more open and green spaces, bringing them closer to nature. People live, stay and recreate; and have immediate access to entertainment facilities in a single, spacious and secured area. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.5.9.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Expansion of "Radisson Blu Hotel" at Plot No.4, Sector-13, Dwarka, New Delhi by M/s Divine Infracon Private Limited for plot area 15,367 and total built-up area of 85,791.594 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.5.9.3. *The EAC deliberated on the certified compliance report letter No. IV/521/2008-RO(NZ)/593 dated 22.01.2019 and subsequent corrigendum issued vide file No. IV/521/2008-RO(NZ)/605 dated 28.01.2019 issued by the MoEF&CC's Regional Office (CR), Lucknow and action taken submitted by the project proponent vide letter dated nil March, 2019 for the partially/not complied point.*

*The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.

- (iii) The project 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.
- (iv) As proposed, fresh water requirement from Delhi Jal Board shall not exceed 337 KLD for which project proponent has already connection for the existing Hotel. Existing water supply is sufficient to cater the future demand and no additional water is required for the proposed project.
- (v) Sewage shall be treated in the STP based on Fluidized Aerobic Bioreactors (FAB) Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, gardening, & HVAC cooling purposes. No excess treated water from STP shall be discharged to municipal drain.
- (vi) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (vii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (viii) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 3 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (ix) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 70 sqm area 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.
- (x) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xi) The project proponent shall comply super ECBC requirement of ECBC 2017.
- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning

should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 3,073.4 sqm (20% of total area) area shall be provided for green area development.

- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 0.66 Crores (1.0% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as sanitation and waste management, waste management, rain water harvesting, solar provision etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.5.10.

Residential Staff Quarter Complex at Plot No. IH-1, Sector-9, Dwarka, New Delhi by M/s Central Board of Indirect Taxes - Environmental Clearance

(IA/DL/MIS/96429/2019; F.No.21-13/2019-IA-III)

39.5.10.1. The project proponent and the accredited Consultant M/s Perfact Enviro Solutions Pvt Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude: 28°34'49.41"N and Longitude: 77° 4'15.32"E.
- (ii) The project is a new project. Total plot area of 17,831.95 sqm (1.7831 ha). Total FAR proposed for project will be 35,119.519 sqm. The Non-FAR will be 10,648.812 sqm, total basement area will be 14,686.848 sqm. The built-up area of the project will be 60,455.18 sqm. The land has been allotted to Central Board of Indirect Taxes for the Construction of Staff Housing by Delhi Development Authority.
- (iii) The project will comprise of various activities i.e. Dwelling Units with servant unit (84 nos.) and dwelling unit without servant units (178 nos.) i.e., total no. of dwelling units will be 262 nos, community hall and swimming pool. Total 8 nos. of main towers are proposed and maximum no. of floors will be 2B+G+18. The maximum height of the building will be 54.6 m.
- (iv) During construction phase, total water requirement is expected to be 5 KLD for construction purpose which will be met by treated water 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 labour force.
- (v) During operational phase, total water demand of the project is expected to be 208 KLD out of which fresh water requirement of 126 KLD will be met by DJB supply and remaining from recycled water. Total wastewater generation will be 165 KLD and treated in Sewage Treatment Plant of 200 KLD capacity. Treated water of 82 KLD will be reused for flushing, gardening, misc. purposes and 67 KLD of excess treated water shall be discharged to sewer line.
- (vi) Total 236 Ton/annum solid wastes will be generated. 142 Ton/annum of bio-degradable waste generated will be treated in organic waste convertor proposed within the site, 47 Ton/annum of Non- Biodegradable waste shall be given to approved recycler and 47 Ton/annum of Plastic waste shall be given to approved recycler. 0.146 kilo ltrs/annum

used oil shall be generated which will be sent to approved vendor. 0.024 Tonns/annum E-waste generated will also be given to approved vendor. Battery waste shall be generated from inverters & UPS. It will be properly managed as per Batteries (Management and Handling) Rules 2001.

- (vii) The total power requirement of the project will be 1950 KW which will be met by BSES. In case of power failure, power backup will be provided through DG sets of 2 x 1500 KVA. Stack height of 6 m above roof level will be maintained to reduce the air emissions, meeting all the norms prescribed by CPCB.
- (viii) Total 2 Nos. of RWH pits shall be installed to recharge the ground water.
- (ix) Total parking requirement will be 703 ECS. Provision of 705 ECS will be provided.
- (x) Green area of the project is 5349.58 sqm (30% of the total plot area).
- (xi) Energy Conservation measures: LED lights shall be provided for common areas, street lighting & basement lighting. 1% of total electric load shall be provided by solar power. Solar power shall be generated by installing Solar Photovoltaic panel. Energy Efficient (VVVF Non-gear) lifts shall be used. Energy Efficient/ load sharing DG sets shall be used. The motors used by pumps proposed in the project shall be energy efficient complying with the ECBC norms.
- (xii) No Eco Sensitive area lies within the 10 km radius of the project site. Hence, NBWL Clearance is not required.
- (xiii) Forest Clearance is not required.
- (xiv) There is no Court case pending against the project.
- (xv) Cost of the project is Rs. 211 Crores.
- (xvi) Employment potential: Labourers during construction phase 250 nos. and about 50 personnel as staff during operation phase.
- (xvii) Benefits of the project: It will increase Infrastructure of the area & will provide housing facility and open space with all other basic amenities to various classes of people. It will provide healthy, green & safe premises for living. People have more open and green spaces, bringing them closer to nature. People live, stay and recreate; and have immediate access to entertainment facilities in a single, spacious and secured area. It will increase Infrastructure of the area & will provide better environment to live. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.5.10.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Residential Staff Quarter Complex at Plot No. IH-1, Sector-9, Dwarka, New Delhi by M/s Central Board of Indirect Taxes for plot area 17,831.95 and total built-up area of 60,455.18 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.5.10.3. *The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with*

*other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) The project proponent shall obtain water supply assurance/permission from Delhi Jal Board, before commencement of work.
- (v) As proposed, fresh water requirement from Delhi Jal Board shall not exceed 126 KLD.
- (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, gardening, misc. purposes. Excess treated water from STP shall be discharged to municipal drain.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 11 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 50 sqm area 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.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should

be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- (xii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 5,349.580 sqm (30% of total area) area shall be provided for green area development.
- (xiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 3.16 Crores (1.5% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Drinking Water Supply, Sanitation & waste management, Skill Development & computer education, Waste Management, Road Infrastructure Development, Solar Power provision, Rain water harvesting and Plantation & Horticulture etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 39.5.11.

Motel and Commercial Complex at Khasra No. 18/1, 18/2, 18/3, 18/2/2, 18/8, 18/9, 18/10, 18/14/1/2, Village Smalkha, Tehsil Mehrauli, Delhi by M/s Green Retreat and Motels Pvt Ltd - Environmental Clearance

(IA/DL/MIS/97618/2019; F.No.21-15/2019-IA-III)

39.5.11.1. The project proponent and the accredited Consultant M/s Perfact Enviro Solutions Pvt Ltd. gave a detailed presentation on the salient features of the project and informed that:

- (i) The project will be located at Latitude: 28°31'58.53"N and Longitude: 77° 6'11.71"E.
- (ii) The project is a new project. The total plot area of the project will be 29,381.89 sqm (2.93 ha) out of which net plot area will be 27,909.314 sqm (2.79 ha) and 1,472.576 sqm will be deducted under road widening. Total FAR proposed for project will be 49,389.64 sqm. The Non-FAR will be 14,126.5 sqm, total basement area will be 51,715.115 sqm & the built-up area of the project will be 1,26,758.3 sqm. The land has been allotted to M/s Green Retreat and Motels Pvt. Ltd. by DDA for the construction of commercial complex. As per the Master plan of Delhi, 2021, land use of the site is for Commercial Use. The details are as follows:

DESCRIPTION	UNIT	DETAILS
Plot Area	sqm	29381.89
Area under road widening	sqm	1472.576

Net Plot Area	sqm	27909.314
Ground coverage		
Ground Coverage (Permissible) (50% of Net Plot area)	sqm	13954.657
Ground Coverage (Achieved) (49.92 % of Net Plot area)	sqm	13931.519
FAR		
F.A.R (Permissible) (1.75 of Total Plot area)	sqm	51418.31
Total F.A.R (Achieved) (1.68 of Total Plot area) (A)	sqm	49389.64
Total NON-FAR AREA (B)	sqm	24693.655
Basement area		
Basement Area 1	sqm	17556.974
Basement Area 2	sqm	17776.822
Basement Area 3	sqm	17341.209
Total Basement Area (C)	sqm	52675.005
Built-up area		
Built-up Area (A+B+C)	sqm	126758.3

- (iii) The project will comprise of various activities i.e. Banquet (1 no.), Hotels (2 nos. of hotel with 575 nos. of Rooms), Studio apartment (Rooms - 80 nos.) and Commercial Shops (21 nos.). Maximum no. of floors will be 3B+G+8. The maximum height of the building will be 32.45 m.
- (iv) During construction phase, total water requirement is expected to be 28 KLD for construction purpose out of which 10 KLD shall be used by labours for domestic & flushing purpose and 18 KLD of water will be used for construction activities which will be met by treated water 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 labour force.
- (v) During operational phase, total water demand of the project is expected to be 1002 KLD. Fresh water requirement will be 583 KLD which will be sourced by Delhi Jal Board and remaining from recycled water. The total waste water generation will be 676 KLD which will be treated in Sewage Treatment Plant (STP) capacity of 900 KLD. Total 608 KLD treated water will be generated, out of which 419 KLD of treated water will be reused in Flushing, Gardening and DG & HVAC Cooling purposes. Excess treated water shall be given to other construction sites and no excess treated water shall be discharge to sewer line.
- (vi) Solid waste generation from the project will be 726 tons/annum out of which biodegradable waste will be 290 tons/annum shall be treated in Organic Waste Converter within the complex, non-biodegradable waste will be 218 tons/annum and Plastic waste will be 218 tons/annum will be handed over to approved authorized recycler. Used Oil will be 70 litre/month shall be collected in leak proof containers at isolated place and then it will be given to approved recycler. E-Waste of capacity 3 kg/month will be handed over to approved authorized recycler.
- (vii) The total power requirement of the project will be 8625 kW which will be met by BSES. In case of power failure, power backup will be provided through DG sets. of capacity 1x750 kVA, 2x1000 kVA and 4x1500 kVA. Hence to reduce the air emissions proper stack height shall be provided as per prescribed norms by CPCB.
- (viii) Total 10 Nos. of RWH pits shall be installed to recharge the ground water.

- (ix) Total parking requirement will be 1482 ECS. Parking provision will be 1520 ECS.
- (x) Green area of the project will be 8030.11 sqm (28.77% of the net plot area).
- (xi) Energy Conservation measures: LED lights shall be provided for common areas, street lighting & basement lighting. 1% of total electric load shall be provided by solar power. Solar power shall be generated by installing Solar Photovoltaic panel. Energy Efficient (VVVF Non-gear) lifts shall be used. Energy Efficient/ load sharing DG sets shall be used. The motors used by pumps proposed in the project shall be energy efficient complying with the ECBC norms.
- (xii) Eco Sensitive Areas: Asola wildlife sanctuary lies at 10.76 km away from project site in SE direction. Hence, NBWL Clearance is not required.
- (xiii) Forest Clearance is not required.
- (xiv) There is no Court case pending against the project.
- (xv) Cost of the project is Rs. 246 Crores.
- (xvi) Employment potential: Labourers during construction phase 250 nos. and about 216 personnel as staff during operation phase.
- (xvii) Benefits of the project: The proposed project will increase Infrastructure of the area & will provide better shopping environment and will increase the livelihood of the people. It will provide healthy, green & safe premises for people. People will be away from traffic, pollution and congestion. People have more open and green spaces, bringing them closer to nature. The benefits relate to the direct employment associated during the construction of the infrastructure and for staff. Additional employment opportunities will lead to a rise in the income and improve their standard of living. The proposed facility would also generate jobs for the labours during construction phase as well as during operation phase. Corporate Environment Responsibility will also be considered for the social benefits of the society.

39.5.11.2. The EAC noted the following:-

- (i) The proposal is for grant of Environmental Clearance to the project Motel and Commercial Complex at Khasra No. 18/1, 18/2, 18/3, 18/2/2, 18/8, 18/9, 18/10, 18/14/1/2, Village Smalkha, Tehsil Mehrauli, Delhi by M/s Green Retreat and Motels Pvt Ltd for plot area 29,381.89 and total built-up area of 1,26,758.3 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level by sectoral EAC. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central Level.

39.5.11.3. *The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance and stipulated the following specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at **Annexure-8** of the minutes), while considering for accord of environmental clearance:*

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

- (ii) The project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (iii) The project 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.
- (iv) The project proponent shall obtain water supply assurance/permission from Delhi Jal Board, before commencement of work.
- (v) As proposed, fresh water requirement from Delhi Jal Board shall not exceed 126 KLD.
- (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, gardening and HVAC. As proposed excess treated water shall be given to other construction sites and no excess treated water shall be discharge to sewer line.
- (vii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (viii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- (ix) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 10 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (x) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. As proposed 120 sqm area 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.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- (xii) The project proponent shall comply super ECBC requirement of ECBC 2017.
- (xiii) As proposed, no tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 8,030.11 sqm (28.77% of total area) area shall be provided for green area development.
- (xiv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 3.69 Crores (1.5% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Drinking Water Supply, Sanitation & waste management, Skill Development & computer education, Waste Management, Road Infrastructure Development, Solar Power provision, Rain water harvesting and Plantation & Horticulture etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

39.6. Any other item:

Agenda item no. 39.6.1.

Environmental Clearance to the project Modernization of 181 Nos. of M.S. Flats (Group Housing Complex) at Plot No. B-4, Vasant Kunj, New Delhi by M/s Maharishi Dayanand CGHS Ltd- Reconsideration of Certified Compliance Report-reg.

(IA/DL/NCP/74002/2018; F.No.21-134/2018-IA-III)

39.6.1.1.

- (i) Matter relates to the grant of environment clearance to the project 'Modernization of 181 Nos. of M.S. Flats (Group Housing Complex) at Plot No. B-4, Vasant Kunj, New Delhi by M/s Maharishi Dayanand CGHS Ltd in a total plot area of 15,000 sqm and total construction (built-up) area of 50,159.941 sqm.
- (ii) The project/activity is covered under category 'B' of item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its amendments, and requires appraisal at State level. However, due to non-existence of SEIAA/SEAC in Delhi, the proposal is appraised at Central level by sectoral EAC. Accordingly, proposal was considered by the Expert Appraisal Committee (Infra-2) in its 36th meeting held during 26-28 November, 2018 and 38th meeting held during 6-8 February, 2019. The EAC, after detailed deliberations recommended the project for grant of environmental clearance subject to the various specific and general environmental conditions.
- (iii) While processing the file it is noted that, earlier environmental clearance was granted for construction of 181 no. of M.S flats (group housing complex) at plot no. B-4, Vasant Kunj, New Delhi vide F.No. 128/DPCC/SEIAA-SEAC/11/2580-2584 dated 16.03.2012 by SEIAA, Delhi in a total plot area of 15,000 sqm and built-up area of 39,833.11 sqm. The project proponent had submitted the certified compliance report issued by RO(CR), MoEF&CC, Lucknow vide File No.4-1043/12/413 dated 08.10.2018. However, it was not

discussed/deliberate in the EAC meeting.

- (iv) In view of above, it was decided in the Ministry that certified compliance report issued by RO(CR), MoEF&CC, Lucknow may be discussed/deliberate by the EAC in its forthcoming meeting, thereafter file will be processed for approval of competent authority.

39.6.1.2. *The Committee deliberated upon the Certified Compliance Report issued by Regional Office (CR), MoEFCC, Lucknow vide letter No. 4-1043/12/413 dated 08.10.2018 for earlier environmental clearance conditions. The Committee noted that as per observation made during the site visit, the project proponent have complied or in process of complying the environmental conditions stipulated in the earlier EC. Only specific condition no. vi and ix regarding Disposal of Muck and Construction Wastes, the compliance was found partly complied. The Committee also took note of action taken submitted by the project proponent vide letter dated 22.03.2019 to RO, MoEFCC, Lucknow.*

The committee after being satisfied with the submission of the project proponent, recommended the project for grant of Environmental Clearance as per the specific conditions mentioned in the minutes of 38th meeting of EAC held during 6-8 February, 2019 along with other environmental conditions while considering the grant of Environmental Clearance.

LIST OF PARTICIPANTS OF EAC (INFRASTRUCTURE-2) IN 39th MEETING OF EAC (INFRASTRUCTURE-2) HELD ON 26-28 MARCH, 2019

S. No.	Name	Designation	Attendance			Signature
			26 th March	27 th March	28 th March	
1.	Prof. T. Haque	Chairman	P	P	P	
2.	Dr. N. P. Shukla	Member	P	P	P	
3.	Dr. H. C. Sharatchandra	Member	P	P	P	
4.	Shri V. Suresh	Member	P	P	P	
5.	Dr. V. S. Naidu	Member	P	P	P	
6.	Shri B. C. Nigam	Member	P	P	P	
7.	Dr. Manoranjan Hota	Member	P	P	P	
8.	Dr. Dipankar Saha	Member	P	P	P	
9.	Dr. Jayesh Ruparelia	Member	P	P	P	
10.	Dr. (Mrs.) Mayuri H. Pandya	Member	A	P	P	
11.	Dr. M. V. Ramana Murthy	Member	P	P	A	
12.	Prof. Dr. P.S.N. Rao	Member	A	P	P	
13.	Shri Kushal Vashist	Director & Member Secretary	P	P	P	

ANNEXURE-1**Standard EC Conditions for Project/Activity 7(a): Airport****I. Statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities shall be obtained.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

II. Air quality monitoring and preservation:

- i. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the airport area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- ii. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- iv. Soil and other construction materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet
- v. The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.
- vi. Excavated materials shall be handled and transported in a manner that they do not cause any problems of air pollution.
- vii. The soil/construction materials carried by the vehicle should be covered by impervious sheeting to ensure that the dusty materials do not leak from the vehicle.

III. Water quality monitoring and preservation:

- i. Run off from chemicals and other contaminants from aircraft maintenance and other areas within the airport shall be suitably contained and treated before disposal. A spillage and contaminant containment plan shall be drawn up and implemented to the satisfaction of the State Pollution Control Board.
- ii. Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.

- iii. The runoff from paved structures like Runways, Taxiways, can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures.
- iv. Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area. Domestic and industrial waste water shall not be allowed to be discharged into storm water drains.
- v. Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Rain water harvesting structures shall conform to CGWA designs. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.
- vi. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- vii. Sewage Treatment Plant shall be provided to treat the wastewater generated from airport. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression
- viii. A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
- ix. A detailed drainage plan for rain water shall be drawn up and implemented.

IV. Noise monitoring and prevention:

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
- iv. During airport operation period, noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- v. Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7 am to 6 pm.

V. Energy Conservation measures:

- i. Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

VI. Waste management:

- ii. Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal/vertical).
- iii. The project activity shall conform to the Fly Ash notification issued under the E.P. Act of 1986.
- iv. Solid inert waste found on construction sites consists of building rubble, demolition material, concrete; bricks, timber, plastic, glass, metals, bitumen etc shall be reused/recycled or disposed off as per Solid Waste Management Rules, 2016 and Construction and Demolition Waste Management Rules, 2016.
- v. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- vi. The project proponents shall implement a management plan duly approved by the State Pollution Control Board and obtain its permissions for the safe handling and disposal of:
 - a. Trash collected in flight and disposed at the airport including segregation, collection and disposed.
 - b. Toilet wastes and sewage collected from aircrafts and disposed at the Airport.
 - c. Wastes arising out of maintenance and workshops
 - d. Wastes arising out of eateries and shops situated inside the airport complex.
 - e. Hazardous and other wastes
- vii. The solid wastes shall be segregated as per the norms of the Solid Waste Management Rules, 2016. Recycling of wastes such as paper, glass (produced from terminals and aircraft caterers), metal (at aircraft maintenance site), plastics (from aircrafts, terminals and offices), wood, waste oil and solvents (from maintenance and engineering operations), kitchen wastes and vegetable oils (from caterers) shall be carried out. Solid wastes shall be disposed in accordance to the Solid Waste Management Rules, 2016 as amended.
- viii. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- ix. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Belt:

- i. Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter alia cover the entire periphery of the Air Port.

- ii. Top soil shall be separately stored and used in the development of green belt.

VIII. Public hearing and Human health issues:

- i. Construction site should be adequately barricaded before the construction begins.
- ii. Traffic congestion near the entry and exit points from the roads adjoining the airport shall be avoided. Parking should be fully internalized and no public space should be utilized.
- iii. Provision of Electro-mechanical doors for toilets meant for disabled passengers. Children nursing/feeding room to be located conveniently near arrival and departure gates.
- iv. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis.

IX. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO_x (ambient levels) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

- viii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- ix. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- x. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xi. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xiii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts/NGT and any other Court of Law relating to the subject matter.
- xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

ANNEXURE-2**Standard EC Conditions for Project/Activity 7(d): Common hazardous waste treatment, storage and disposal facilities (TSDFs)****I. Statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. The Project proponent should ensure that the TSDF fulfils all the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.
- vi. The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous waste treatment, storage and disposal facilities' published by the CPCB in May, 2010.
- vii. Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator.
- viii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- ix. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- x. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities

II. Air quality monitoring and preservation:

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iv. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- vi. Appropriate Air Pollution Control (As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bagfilter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.

- vii. The periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out. Analysis of Dioxins and Furans shall be done through CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram or equivalent NABL Accredited laboratory
- viii. Gas generated in the Land fill should be properly collected, monitored and flared
- ix. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 02 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

III. Water quality monitoring and preservation:

- i. The project proponent shall install continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. No discharge in nearby river(s)/pond(s).
- v. The depth of the land fill site shall be decided based on the ground water table at the site.
- vi. The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.
- vii. All leachates arising from premises should be collected and treated in the ETP followed by RO. RO rejects shall be evaporated in MEE. Toxicity Characteristic Leaching Procedure (TCLP) test to be performed on leachates.
- viii. The Company shall review the unit operations provided for the treatment of effluents, specially the sequencing of MEE after tertiary treatment, the source of permeate when no R.O. is recommended and the treatment of MEE condensate. The scheme for treatment of effluents shall be as permitted by the Pollution Control Board/Committee under the provisions of consent to establish.
- ix. Scrubber water, leachate water or wheel wash effluent shall be treated in the effluent treatment plant followed by RO to achieve zero liquid discharge.
- x. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- xi. Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused within the project.
- xii. A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
- xiii. Rain water runoff from hazardous waste storage area shall be collected and treated in the effluent treatment plant.

IV. Noise monitoring and prevention:

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures:

- i. Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

VI. Waste management:

- i. The TSDF should only handle the waste generated from the member units.
- ii. Periodical soil monitoring to check the contamination in and around the site shall be carried out.
- iii. No non-hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.

- iv. The Project proponent shall not store the Hazardous Wastes more than the quantity that has been permitted by the CPCB/SPCB.
- v. The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
- vi. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- vii. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.

VII. Green Belt:

- i. Green belt shall be developed in an area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter alia cover the entire periphery of the project site.
- ii. Top soil shall be separately stored and used in the development of green belt.

VIII. Public hearing and Human health issues:

- i. Traffic congestion near the entry and exit points from the roads adjoining the project site shall be avoided. Parking should be fully internalized and no public space should be utilized.
- ii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis.

IX. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

- vi. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts/NGT and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

ANNEXURE-3**Standard EC Conditions for Project/Activity 7(da): Bio-Medical Waste Treatment Facilities****I. Statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. Transportation and handling of Bio-medical Wastes shall be as per the Bio-Medical Waste Management Rules, 2016 including the section 129 to 137 of Central Motor Vehicle Rules 1989.
- vi. Project shall fulfill all the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 including collection and transportation design etc and also guidelines for Common Hazardous Waste Incineration - 2005, issued by CPCB Guidelines of CPCB/MPPCB for Bio-medical Waste Common Hazardous Wastes incinerators shall be followed.
- vii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- viii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- ix. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities

II. Air quality monitoring and preservation:

- i. The project proponent shall install emission monitoring system including Dioxin and furans to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. Periodical air quality monitoring in and around the site including VOC, HC shall be carried out.
- iii. Incineration plants shall be operated (combustion chambers) with such temperature, retention time and turbulence, so as to achieve Total Organic Carbon (TOC) content in the slag and bottom ashes less than 3%, or their loss on ignition is less than 5% of the dry weight of the material.
- iv. Venturi scrubber (alkaline) should be provided with the incinerator with stack of adequate height (Minimum 30 meters) to control particulate emission within 50mg/Nm³.
- v. Appropriate Air Pollution Control (APC) system shall be provided for fugitive dust from all vulnerable sources, so as to comply prescribed standards. All necessary air pollution control devices (quenching, Venturi scrubber, mist eliminator) should be provided for compliance of emission standards.
- vi. Masking agents should be used for odour control.

III. Water quality monitoring and preservation:

- i. The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. Waste water generated from the facility shall be treated in the ETP and treated waste water shall be reused in the APCD connected to the incinerator. The water quality of treated effluent shall meet the norms prescribed by State Pollution Control Board. Zero discharge should be maintained.
- iii. Process effluent/any waste water should not be allowed to mix with storm water.
- iv. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- v. Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused within the project.
- vi. A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.

- vii. The leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.
- viii. Magnetic flow meters shall be provided at the inlet and outlet of the ETP & all ground water abstraction points and records for the same shall be maintained regularly.
- ix. Rain water runoff from hazardous waste storage area shall be collected and treated in the effluent treatment plant.

IV. Noise monitoring and prevention:

- i. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures:

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas

VI. Waste management:

- i. Incinerated ash shall be disposed at approved TSDF and MoU made in this regard shall be submitted to the Ministry prior to the commencement.
- ii. The solid wastes shall be segregated as per the norms of the Solid Waste Management Rules, 2016.
- iii. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- iv. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016
- v. No landfill site is allowed within the CBWTF site
- vi. The Project proponent shall not store the Hazardous Wastes more than the quantity that has been permitted by the CPCB/SPCB

VII. Green Belt:

- i. Green belt shall be developed in area as provided in project details, with native tree Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.

VIII. Public hearing and Human health issues:

- i. Feeding of materials/Bio-medical waste should be mechanized and automatic no manual feeding is permitted.
- ii. Proper parking facility should be provided for employees & transport used for collection & disposal of waste materials.
- iii. Necessary provision shall be made for fire-fighting facilities within the complex.
- iv. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- v. Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or gradual release of hazardous waste or hazardous waste constituents to air, soil or surface water.
- vi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vii. Occupational health surveillance of the workers shall be done on a regular basis.

IX. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted

for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous:

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts/NGT and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

ANNEXURE-4**Standard EC Conditions for Project/Activity 7(e): Port, Harbor, Break water, Dredging****I. Statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. No dredging is allowed in protected habitat areas without prior permission from NBWL.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
- iv. Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- v. All the recommendations and conditions specified by State Coastal Zone Management Authority for the project shall be complied with.
- vi. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- viii. All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction
- ix. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- x. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

II. Air quality monitoring and preservation:

- i. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the project area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- ii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
- iii. Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.
- iv. Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.
- v. The Vessels shall comply the emission norms prescribed from time to time.
- vi. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- vii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent

authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

III. Water quality monitoring and preservation:

- i. 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.
- ii. Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.
- iii. No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.
- iv. Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
- v. The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.
- vi. Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.
- vii. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- viii. Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.
- ix. A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
- x. No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
- xi. All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.

IV. Noise monitoring and prevention:

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
- iv. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures:

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management:

- i. Dredged material shall be disposed safely in the designated areas.
- ii. 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.
- iii. 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.
- iv. The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
- v. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- vi. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- vii. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
- viii. Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill

management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered

VII. Green Belt:

- i. Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
- ii. Top soil shall be separately stored and used in the development of green belt.

VIII. Marine Ecology:

- i. Dredging shall not be carried out during the fish breeding and spawning seasons.
- ii. Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.
- iii. The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.
- iv. While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.
- v. A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.
- vi. 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 including all micro, macro and mega floral and faunal components of marine biodiversity.
- vii. The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.

IX. Public hearing and Human health issues:

- i. The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.
- ii. Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.
- iii. In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDF.
- iv. Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.
- v. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- vi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vii. Occupational health surveillance of the workers shall be done on a regular basis.

X. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

XI. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO₂, NO_x (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Standard EC Conditions for Project/Activity 7(g): Aerial ropeways

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

II. Air quality monitoring and preservation:

- i. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission) covering upwind and downwind directions.
- ii. Appropriate Air Pollution Control (APC) system (both during the construction and operation) shall be provided for all the dust generating points *inter alia* including loading, unloading, transfer points, fugitive dust from all vulnerable sources, so as to comply prescribed standards.
- iii. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- iv. Adequate parking shall be constructed at upper terminal and lower terminal. PP shall ensure smooth traffic management.

III. Water quality monitoring and preservation:

- i. Storm water from the project area shall be passed through settling chamber.
- ii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. Prior permission from competent authority shall be obtained for use of fresh water.
- v. No wastewater shall be discharged in open. Appropriate Water Pollution Control system shall be provided for treatment of waste water.
- vi. A certificate from the competent authority, in case of discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.

IV. Noise monitoring and prevention:

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time..

V. Energy Conservation measures:

- i. Energy conservation measures like installation of LED/CFLs/TFLs for lighting should be integral part of the project design and should be in place before project commissioning.
- ii. Solar energy shall be used in the project i.e. at upper terminal and lower terminal to reduce the carbon footprint.

VII. Waste management

- i. The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.

- ii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
- iii. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.

VIII. Public hearing and Human health/safety issues:

- i. Comply with the safety procedures, norms and guidelines (as applicable) as outlined in IS 5228, IS 5229 and IS 5230, code of practice for construction of aerial ropeways, Bureau of Indian Standards.
- ii. Maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition.
- iii. Ensuring that walking surfaces or boards at height are of sound construction and are provided with safety rails or belts.
- iv. The project should conform to the norms prescribed by the Director General Mine safety. Necessary clearances in this regard shall be obtained.
- v. Adequate infrastructure, including power, shall be provided for emergency situations and disaster management.
- vi. Adequate first aid facility shall be provided during construction and operation phase of the project.
- vii. Regular safety inspection shall be carried out of the ropeway project and a copy of safety inspection report should be submitted to the Regional Office.
- viii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

IX Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous:

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

ANNEXURE-6**Standard EC Conditions for Project/Activity 7(h): Common Effluent Treatment plants (CETPs)****I. Statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

II. Air quality monitoring and preservation:

- i. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Diesel generating sets shall be installed, in the downwind directions.
- ii. Appropriate Air Pollution Control (APC) system shall be provided for fugitive dust from all vulnerable sources, so as to comply prescribed standards.

III. Water quality monitoring and preservation:

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- iii. There shall be flow meters at inlet and outlet of CETP to monitor the flow. Suitable meters shall be provided to measure the quantity of effluent received, quantity of effluent recycled/reused and discharged.
- iv. The units and the CETP will maintain daily log book of the quantity and quality of discharge from the units, quantity of inflow into the CETP, details of the treatment at each stage of the CETP including the raw materials used, quantity of the treated water proposed to be recycled, reused within the Industrial park/units, quantity of the treated effluent discharged. All the above information shall be provided on-line of the web site exclusively prepared for the purpose by the CETP owner. The website shall be accessible by the public. The financial and energy details of the CETP will also be provided along with details of the workers of the CETP.
- v. The CETP operator will maintain an annual register of member units which will contain the details of products with installed capacities and quality and quantity of effluents accepted for discharge. This will form a part of the initial and renewal applications for consent to operate to be made before the State Pollution Control Board.
- vi. No changes in installed capacity, quality or quantity of effluents as agreed upon in the initial MOU between the operator and the member units, addition of any new member units shall be carried without prior approval of the ministry
- vii. The Unit shall inform the State Pollution Control Board at least a week prior to undertaking maintenance activities in the recycle system and store/dispose treated effluents under their advice in the matter.
- viii. The unit shall also immediately inform the Pollution Control Board of any breakdown in the recycling system, store the effluents in the interim period and dispose effluents only as advised by the Pollution Control Board.
- ix. The MoU between CETP and member units shall indicate the maximum quantity of effluent to be sent to

the CETP along with the quality.

- x. The unit shall maintain a robust system of conveyance for primary treated effluents from the member units and constantly monitor the influent quality to the CETP. The Management of the CETP and the individual member shall be jointly and severally responsible for conveyance and pre-treatment of effluents. Only those units will be authorized to send their effluents to the CETP which have a valid consent of the Pollution Control Board and which meet the primary treated standards as prescribed. The CETP operator shall with the consent of the State Pollution Control Board retain the powers to delink the defaulter unit from entering the conveyance system.
- xi. The effluent from member units shall be transported through pipeline. In case the effluent is transported thorough road, it shall be transported through CETP tankers only duly maintaining proper manifest system. The vehicles shall be fitted with proper GPS system.
- xii. Before accepting any effluent from member units, the same shall be as permitted by the SPCB in the consent order. No effluent from any unit shall be accepted without consent from SPCB under the Water Act, 1974 as amended.
- xiii. Treated water shall be disposed on land for irrigation. An irrigation management plan shall be drawn up in consultation with and to the satisfaction of the State Pollution Control Board.
- xiv. The Project proponents will build operate and maintain the collection and conveyance system to transport effluents from the industrial units in consultation with and to the satisfaction of the State Pollution Control Board and ensure that the industrial units meet the primary effluent standards prescribed by the State Pollution Control Board.
- xv. The State Pollution Control Board will also evaluate the treatment efficiency of the Effluent Treatment Plant (ETP) and its capability of meeting the prescribed standards. The final scheme of treatment would be such as is approved by the Pollution Control Board in the Consent to Establish.
- xvi. The project proponents will create an institutional arrangement for the involvement of individual members in the management of the CETP.

IV. Noise monitoring and prevention:

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Waste management:

- i. ETP sludge generated from CETP facility shall be handled and disposed to nearby authorized TSDF site as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- ii. Non Hazardous solid wastes and sludge arising out of the operation of the CETP shall be adequately disposed as per the Consent to be availed from the State Pollution Control Board. Non Hazardous solid wastes and sludge shall not be mixed with Hazardous wastes.
- iii. The CETP shall have adequate power back up facility, to meet the energy requirement in case of power failure from the grid.
- iv. The site for aerobic composting shall be selected and developed in consultation with and to the satisfaction of the State Pollution Control Board. Odour and insect nuisance shall be adequately controlled.
- v. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- vi. The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.

VI. Energy Conservation measures:

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas

VII. Green Belt:

- i. Green belt shall be developed in area as provided in project details, with native tree Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.

VIII. Public hearing and Human health issues:

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

- ii. Adequate infrastructure, including power, shall be provided for emergency situations and disaster management.
 - iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
 - iv. Occupational health surveillance of the workers shall be done on a regular basis.
- IX. Corporate Environment Responsibility:**
- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
 - ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
 - iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
 - iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
 - v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- X. Miscellaneous:**
- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
 - ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
 - iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
 - iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
 - v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
 - vi. The criteria pollutant levels or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
 - vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of operation by the project.
 - viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

ANNEXURE-7

Standard EC Conditions for Project/Activity 7(i): Common Municipal Solid Waste Management Facility (CMSWMF)

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

II. Air quality monitoring and preservation:

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (for projects involving incineration).
- ii. As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bagfilter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO₂, NO_x and CO from the incinerator stack. The periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out.
- iii. Analysis of Dioxins and Furans shall be done through CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram or equivalent NABL Accredited laboratory.
- iv. Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator.
- v. Gas generated in the Land fill should be properly collected, monitored and flared.
- vi. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

III. Water quality monitoring and preservation:

- i. The project proponent shall install continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
- iii. The depth of the land fill site shall be decided based on the ground water table at the site.
- iv. Rain water runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment plant.
- v. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior

- permission from competent authority shall be obtained for use of fresh water.
- vi. The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.
 - vii. All leachates arising from premises should be collected and treated in the ETP followed by RO. RO rejects shall be evaporated in MEE. Toxicity Characteristic Leaching Procedure (TCLP) test to be performed on leachates.
 - viii. Scrubber water, leachate water or wheel wash effluent shall be treated in the effluent treatment plant followed by RO to achieve zero liquid discharge.
 - ix. Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused within the project.
 - x. A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
- IV. Waste management:**
- i. No non-hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.
 - ii. The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
 - iii. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
 - iv. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- V. Transportation:**
- i. Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the Authorization under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 to prevent unwanted access.
 - ii. Traffic congestion near the entry and exit points from the roads adjoining the project site shall be avoided. Parking should be fully internalized and no public space should be utilized.
 - iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 02 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- VI. Green belt:**
- i. Green belt shall be developed in an area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter alia cover the entire periphery of the project site.
 - ii. Top soil shall be separately stored and used in the development of green belt.
- VII. Public hearing and Human health/safety issues:**
- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
 - ii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
 - iii. Occupational health surveillance of the workers shall be done on a regular basis.
- VIII. Corporate Environment Responsibility:**
- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
 - ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

IX. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently. (for projects involving incineration)
- ii. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed (For projects involving only Landfill without incineration)
- iii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iv. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain (in case of incineration involved).
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- xi. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xvi. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

- xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

ANNEXURE-8**Standard EC Conditions for Project/Activity 8(a/b): Building and Construction projects / Townships and Area Development projects****I. Statutory compliance:**

- i. The project 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. 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 lightning etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

II. Air quality monitoring and preservation:

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5}) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- 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 set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation:

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. 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.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. 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.
- viii. 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.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvi. 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.
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.

- xxi. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention:

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures:

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. 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.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. 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. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management:

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall 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.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. 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 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover:

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).

- ii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- ii. 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.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human health issues:

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted

for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous:

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
