

**Minutes of 223<sup>rd</sup> meeting of Expert Appraisal Committee for Projects related to Infrastructure Development, Industrial estate/parks/complexes/areas, Export Processing Zones, Special Economic Zones, Biotech Parks, Leather Complexes and National Highways projects to be held on 23<sup>rd</sup> September, 2019**

1. Opening remarks of the Chairman
2. Confirmation of the minutes of the 222<sup>nd</sup> meeting held on 20<sup>th</sup> August, 2019 at Indira Paryavaran Bhawan, Jor bagh Road, New Delhi:

EAC during confirmation of above minutes the following corrections are suggested for the proposal mentioned below:

**Construction of eight lane road (New NH-148N) from village Kandwarwasa to village Kajalia, District Ratlam from Ch.150+000 to 181+000 (length 31km) in the state of Madhya Pradesh (sub package-2) under Bharatmala Pariyojana (Lot-4/Package-5) by M/s National Highways Authority of India [Proposal No. IA/MP/NCP/94029/2018] [F. No. 10-64/2018-IA.III]**

Under Item no. 3.2.1 and 3.2.5 (M/s National Highways Authority of India) shall be read as:

Page #	Item	For	Read as
5	3.2.1.(iv)	.....of which <b>41.82</b> ha is forest land.....	.....of which <b>50.60</b> ha is forest land.....
7	3.2.1.(xvii)	Yes, the application for diversion of <b>41.82</b> ha of Protected Forest land was submitted.....	Yes, the application for diversion of <b>50.60</b> ha of Protected Forest land was submitted.....
14	3.2.5.(xv)	The proponent has proposed diversion of <b>41.82</b> ha for forest land by considering RoW of 100m.	The proponent has proposed diversion of <b>50.60</b> ha for forest land by considering RoW of 100m.

**3. Consideration of Proposals:**

<b>3.1</b>	<p><b>Development of Economic Corridors, Inter Corridors, Feeder Routes and Coastal Roads to improve the efficiency of Freight movement in India (Lot-3/Odisha &amp; Jharkhand/Package-2) Raipur-Vishakhapatnam under Bharatmala Pariyojana by M/s National Highways Authority of India - Terms of Reference</b></p> <p><b>[Proposal No. IA/CG/MIS/114940/2019] [F. No. 10-38/2019-IA.III]</b></p>
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3.1.1	The proposal was placed before EAC during its 223 <sup>rd</sup> meeting on 23 <sup>rd</sup> September, 2019, wherein it was observed that proposed alignment was different from the proposal submitted in Form-1 and not in consonance with the notification of the by the Ministry of Road, Transport and Highways. EAC therefore did not consider the proposal.																																																												
3.2	<b>Establishment of Canara Industrial Area at Ira, Chelur, Balepuni and Kurnadu Village, Bantwal Taluk, Dakshina Kannada district, Karnataka by M/s Karnataka Industrial Areas Development Board – Further consideration for Environmental Clearance</b> <b>[Proposal No. IA/KA/NCP/29175/2015] [F. No. 21-135/2015-IA.III]</b>																																																												
3.2.1	<p>The proposal was considered in 217<sup>th</sup> meeting held on 27<sup>th</sup> June, 2019.</p> <p>The EAC observed that EIA/EMP report was incomplete as the declaration by consultant was not included in the report EIA/EMP report. The co-ordinator, who prepared EIA/EMP report, did not attend the EAC meeting.</p> <p>The EAC, therefore, deferred the proposal for want of above-mentioned information along with the revised EIA/EMP report including declaration by the Consultant and follow the generic structure as per appendix III of EIA Notification, 2006 as amended from time to time.</p>																																																												
3.2.2	<p>The project proponent along with the EIA consultant M/s ABC Techno Labs India Private Limited, Chennai, made a presentation and provided the following information before the Committee:</p> <p>(i) <b>Proposal:</b> Proposed '<b>Establishment of Canara Industrial Area</b>' in Taluk Bantwal, District Dakshina Kannada, Karnataka by M/s Karnataka Industrial Areas Development Board (KIADB). Total land area is 236.93 Hectares (585.66 Acres).</p> <p>(ii) <b>Location:</b> Ira, Chelur, Balepuni and Kurnadu Village, Bantwal Taluk, Dakshina Kannada District, Karnataka.</p> <p>(iii) <b>Land Use:</b> Industrial use</p> <table border="1" data-bbox="304 1518 1425 2004"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>No.</th> <th>Acres</th> <th>Hectares</th> <th>% of Land Use</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Industries</td> <td>113</td> <td>342.17</td> <td>138.47</td> <td>58.42</td> </tr> <tr> <td>2</td> <td>Amenities (A-1 &amp; A-2)</td> <td>2</td> <td>29.28</td> <td>11.84</td> <td>5</td> </tr> <tr> <td>3</td> <td>Utilities(U-1 to U-7)</td> <td>7</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Commercial Area (C1 to C4)</td> <td>4</td> <td>15.73</td> <td>6.37</td> <td>2.69</td> </tr> <tr> <td>5</td> <td>Park/ Buffer Zone</td> <td>-</td> <td>88.72</td> <td>35.9</td> <td>15.14</td> </tr> <tr> <td>6</td> <td>Transport &amp; Parking</td> <td>2</td> <td>29.28</td> <td>11.84</td> <td>5</td> </tr> <tr> <td>7</td> <td>Roads</td> <td>13</td> <td>55.56</td> <td>22.48</td> <td>9.49</td> </tr> <tr> <td>8</td> <td>Land in slope +5.05 acre encroached by Karnataka Forest Dept.</td> <td>-</td> <td>24.92</td> <td>10.08</td> <td>4.26</td> </tr> <tr> <td></td> <td><b>Total Area</b></td> <td></td> <td><b>585.66</b></td> <td><b>236.93</b></td> <td><b>100</b></td> </tr> </tbody> </table>	S. No.	Description	No.	Acres	Hectares	% of Land Use	1	Industries	113	342.17	138.47	58.42	2	Amenities (A-1 & A-2)	2	29.28	11.84	5	3	Utilities(U-1 to U-7)	7				4	Commercial Area (C1 to C4)	4	15.73	6.37	2.69	5	Park/ Buffer Zone	-	88.72	35.9	15.14	6	Transport & Parking	2	29.28	11.84	5	7	Roads	13	55.56	22.48	9.49	8	Land in slope +5.05 acre encroached by Karnataka Forest Dept.	-	24.92	10.08	4.26		<b>Total Area</b>		<b>585.66</b>	<b>236.93</b>	<b>100</b>
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- (iv) **Forest Land (Ha.)-** Around 6.33 ha area of Forest land falls within the proposed site layout, which will not be disturbed. The No Objection Certificate from the Karnataka Forest Department is obtained. All the conditions given by Forest Department will be obeyed.
- (v) **Water requirement, source, status of clearance: Source of water:** Netravathi River. Water is collected from near Tumble Vented Dam of Netravathi River. Water will be supplied through pipes to the industrial area. There are two pumping stations one is at Mangalore University and another one is near Kurnad village. Raw water from Netravathi river is pumped to the project site and stored in Over Head Tank (O.H.T) capacity of 5 lakh Liters and GLSR.
- Quantity of sewage generated during the construction phase will be 20 KLD (waste water generation is 80% of 25 KLD of labors). During operation phase sewage generated will be treated in the Sewage Treatment Plant of the respective industry. The estimated sewage generation during operation phase will be 1.2 MLD.
- (vi) **Waste water:** The estimated water demand during the construction phase is 125 KLD (approx.), 25 KLD for labors and 100 KLD for construction activities and water demand during the operation phase is 4 MLD. During construction phase the water required will be sourced from tanker supply and the water for the operation phase will be sourced from the Netravathi River through Irrigation Department. Obtained approval letter from the Mangalore Municipal Corporation.
- (vii) **Solid Waste Management:** The Canara Industrial area development will also generate Solid Waste from non-manufacturing/ non-production sections of the Industrial Units such as Administration blocks, Canteen, Toilets, Utilities, etc. The total quantity of solid waste generated is 6089 Kg/day and the sludge generated from STP is 14 Kg/day. The solid waste will be treated using Organic Waste Converter. For management of industrial waste individual units may consider having an agreement with the nearest Treatment, Storage Disposal Facility (TSDF) operator to dispose the hazardous waste and 4.93 Acre is provided for Solid Waste Disposal for operational phase.
- (viii) **Hazardous Waste Management:** For management of industrial waste individual units may consider having an agreement with the nearest Treatment, Storage Disposal Facility (TSDF) operator to dispose the hazardous waste and 4.93 acre is provided for Solid Waste Disposal for operational phase.
- (ix) **Source of Power:** The power requirement for the proposed development is 34.20MW. The source of power will be from Mangalore Electricity Supply Company Limited (MESCOM).

	<p>(x) <b>Details of tree cutting:</b> Compensatory plantation at the rate of 1:5 (approximate) at buffer zone area and on either side of proposed roads against the felling down trees during execution of development works for providing basic infrastructure like Road, water supply and drainages etc.</p> <p>(xi) <b>Green belt development:</b> The proposed industrial area has dedicated a buffer area of 65.21 acres of total land area. The plantation in this stretch can be done in two rows conveniently and if at all the area accommodates even the third row of plantation can be done. The first row of plantation will consist of small to medium sized ornamental tree species and subsequent rows can be accommodated with shade bearing or ornamental trees alternatively.</p> <p>(xii) <b>Whether the project is in Critically Polluted area:</b> No.</p> <p>(xiii) <b>National Park/ Wild Life Sanctuary in 10 km radius area &amp; Eco-Sensitive Zone in 10 km radius area:</b> There is no wildlife sanctuary, national park or bird sanctuary with in the 15 km radius of the project site.</p> <p>(xiv) <b>If the project involves diversion of forest land, extend of the forest land:</b> No forest land is involved.</p> <p>(xv) <b>Court cases, if any: yes.</b> An extent of 7.66 acres of Govt. land (as per RTC during acquisition) in Sy.No. 172/P2, 177/P2, 365/5P2 and 360/2B of Ira Village has been already acquired by the Government. These lands have been handed over by the Government to this Board free of all encumbrances what so ever. Three Writ Petitions in No. 47802/2014, 47803/2014 and 51381/2014 have been filed by the Petitioners seeking relief on compensation matter. These matters are pending for adjudication. It is pertaining to note in the Writ Appeal No. 1586-87/2015 (W.P. 8953/2011:17975/2009) has been disposed on 06-09-2019 for non-merit in the prayer.</p> <p>(xvi) <b>Investment/Cost of the project:</b> Rs. 330 Crores.</p> <p>(xvii) <b>Employment:</b> Total Manpower 25500</p> <p>(xviii) <b>Benefits of the project:</b> Proposed development of Canara Industrial Area More employment opportunities will be generated. There will be positive impacts on the socio economic status of the surrounding areas. Physical infrastructure development such as improvement to roads, UGD lines, street lights etc., will take place.</p> <p>(xix) <b>ToR:</b> ToR was granted vide Ministry's letter no. 21-135/2015-IA.III dated 12.11.2015, which was extended for one year vide Ministry's letter dated 13.11.2018.</p> <p>(xx) <b>Baseline Studies Period:</b> October 2015 to December 2015.</p>
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(xxi) **Public Hearing:** Public Hearing was conducted for proposed development of “Canara Industrial Area” over an extent of 236.93 ha at Project site (Ira, Chelur, Balepuni and Kurnadu Village, Bantwal Taluk, Dakshina Kannada district, Karnataka) on 09.08.2018. The public hearing notice was published in 2 leading state level newspapers one in English (Times of India) and one in vernacular language –Kannada (Udayawani) on dated 10.07.2018.

About 200 people has attended Public Hearing held at Project site. Number of questions has been raised during Public Hearing which were mostly on the existing Industries in the area. As asked, an extent of 4.93 acres has been earmarked in Utility-1 for disposal of solid waste and incineration activity and also 2 sites on either side of the area measuring 12.48 acres in U-2, U-3, U-6 & U-7 in the proposed layout is reserved for CETP and STP.

SI No	Queries raised	Reply
1	Shri. Radhakrishna Rai, Balepuni also informed that there are about seven to eight residential houses are facing the land acquisition problems in the Mudipu area and demanded that the authorities to solve the problem. Further he asked not to allow environmental hazard industries in the proposed project.	The allotment committee while allotting industrial plots will prefer green industries. The houses area are already acquired by the KIADB.
2	Shri. Henry Britto, Industrialist Mangaluru asked to provide a separate dumping yard to dispose the solid waste and CETP to manage the effluent waste generated within the industrial area managed by KIADB.	Land is reserved for CETP and Solid waste management dumping yard in the proposed layout.

**3.2.3** The EAC after detailed deliberations in its 223<sup>rd</sup> meeting held on 23<sup>rd</sup> September, 2019, observed the following:

- (i) Baseline data is more than 3 years old.
- (ii) Details of CER is not provided.
- (iii) A forest patch of 6.03 ha is located within the premises of proposed Industrial Park.
- (iv) Data on ground water table for the proposed project not provided.
- (v) Proponent’s idea of having a captive TSDF may not be viable for the proposed project.
- (vi) Mangalore airport is located at the distance of 15 km.
- (vii) Information regarding commitment of proponent on issues related to school building and drinking water supply were not provided.

<p><b>3.2.4</b></p>	<p>Considering above mentioned observations of the EAC during 223<sup>rd</sup> meeting on 23<sup>rd</sup> September, 2019, the proposal is <b>deferred</b> for want of following information/documents:</p> <ul style="list-style-type: none"> <li>(i) Base line data for one month and the comparative statement of various environmental parameters including air, water, soil and other parameter etc. be provided.</li> <li>(ii) CER (on slab basis calculation) as per Ministry's OM dated 1<sup>st</sup> May, 2018 be provided.</li> <li>(iii) Provide more clarity about the forest patch situated within premises of proposed industrial park. Project Proponent was also suggested to find whether forest patch situated inside the lay out attracts FC Act.</li> <li>(iv) Proponent is also required to obtain NOC from PCCF (HOFF) of the State Forest department, Karnataka as per extant rules.</li> <li>(v) Provide details of land encroached by the Forest Department as mentioned by the Proponent in their submission before this Ministry as well as before the EAC. A clarification from competent authority of the Govt. of Karnataka is required before this Ministry as well as before the EAC.</li> <li>(vi) Proponent shall submit an undertaking that no ground water will be used for this project.</li> <li>(vii) Submit copy of NOC for withdrawal of water from Netravathi River.</li> <li>(viii) Explore the possibility to establish TSDF within the premises of the proposed Park.</li> <li>(ix) Submit the Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities the provisions of the Airport Noise Zone Standards [G.S.R. 568(E) dated 18<sup>th</sup> June, 2018].</li> <li>(x) Provide information regarding commitment of proponent on issues related to school building, drinking water supply and other related issues.</li> </ul>
<p><b>3.3</b></p>	<p><b>Development of Industrial Estate (Phase-II) at Barwala, District Panchakula, Haryana by M/s Haryana State Industrial &amp; Infrastructure Development Corporation Ltd. (HSIIDC) – Further consideration for Environmental Clearance</b></p> <p><b>[Proposal No. IA/HR/NCP/26556/2015] [F. No. 21-36/2015-IA.III ]</b></p>
<p><b>3.3.1</b></p>	<p>The details of the project, as per the documents submitted by the project proponent, and also as informed during the above said meeting along with EIA Consultant M/s Grass Root Research &amp; Creation India (P) Limited, are reported to be as under:</p>

- (i) The project involves Industrial Estate (Phase-II) at Barwala, Haryana promoted by Haryana State Industrial & Infrastructure Development Co. Ltd.
- (ii) This is a project going to develop on plot area of 557.75 acres or 225.71 ha.
- (iii) Landuse of 10 km radius:

Description	Area in Ha	Percentage
Settlement	2723.46	6.87
Water bodies	47.8	0.12
Forest	3832.6	9.68
River	2328.96	5.88
Vegetation	590.64	1.49
Open Land	1126.66	2.84
Open Scrub	5401.54	13.64
Agricultural Land	23536.57	59.45
Total	39,588.23	100

- (iv) About 43.76% of the net plot area will be under industrial plot, 5.35% under institute and commercial use, 8.29% will be under R & R residential plots, 42.6% under electric substation, OHSR, fire station, ESI dispensary, CETP, multilevel parking, solid waste disposal site, under roads and open space, open area, green area, green belt, green avenue.
- (v) **Types of Industries:** Different types of industries will be developed in Industrial Estate. Some of them are:
- Manufacturing Industries.
  - Automobiles industries.
  - Mechanical Industries.
  - Rubber industry.
  - Readymade garments industry
- (vi) **Power Requirement:** For power requirement a 66 kV sub-station is proposed to supply power in the area.
- (vii) **Water Requirement:** Total water requirement is 10.80 MLD in phase-II. Total fresh water requirement of the project phase-II is estimated as 6.14 MLD. The fresh water requirement will be fulfilled by ground water.
- (viii) **Estimation of Waste Generation and Disposal Methodology:** The total fresh water requirement is estimated as 6.14 MLD. Of this, a total of 4.65 MLD will be used for flushing, horticulture & DG cooling, HVAC cooling etc. Total waste water generation will be 6.31 MLD. A CETP of 6.5 MLD capacity will be provided for treating the effluent which will be treated till tertiary level & used within the project premises for various purposes.
- (ix) **Solid Waste Management** -Total solid waste generated from the project will be 40.05 MT/D. A total of 1.55 Acre area will be provided within the Industrial Estate for management of solid waste.

	<p>(x) <b>Hazardous Waste Management</b> -The respective industry owners will dispose of hazardous waste generated from their units, separately, as per norms.</p> <p>(xi) <b>Recycling / reuse of treated water and disposal</b> -The treated water from CETP will be recycled for Horticulture/road side plantation (2.15 MLD) and industrial water demand (2.5 MLD). The system will be designed for Zero Effluent Discharge.</p> <p>(xii) <b>Rain Water Harvesting:</b> Storm Water Drainage scheme is designed as per Guidelines laid in Manual of Sewerage issued by Ministry of Works &amp; Housing, Govt. of India. As per proposal for Storm Water Drainage the storm runoff from the area will be drained off in the master storm drain and adjoining river. Master storm drain is proposed on the northern side as open channel with a capacity of 90 cumecs. The internal storm water would be laid in the shape of RCC NP3 pipes along the internal roads.</p> <p>(xiii) <b>Energy conservation measures with estimated saving:</b> Compliance to HSIIDC'S public notice, HSIIDC: IA: 2009:5533 to 49-dated 18.03.2009 and Notification of Govt. of Haryana regarding use of solar water heating system has come on 29th July, 2005 vides letter no. 22/52/05-5P.</p> <p>(xiv) <b>Ground water withdrawal approval from CGWA:</b> NOC for ground water extraction is under progress.</p> <p>(xv) <b>Whether the project is in Critically Polluted area:</b> No</p> <p>(xvi) <b>If the project involves diversion of forest land:</b> No</p> <p>(xvii) <b>Details of water bodies, impact on drainage if any</b> - No water body present within project site.</p> <p>(xviii) <b>If the project falls within 10 km of eco-sensitive area:</b> Yes, Khol Hi-Raitan Wildlife Sanctuary (7 km, N).</p> <p>(xix) <b>Details of Forest land involved, if any:</b> No forest land is involved in the project.</p> <p>(xx) <b>Details of tree cutting:</b> No tree felling involved.</p> <p>(xxi) <b>Green Belt:</b> Area under green belt is 25,437 sqm.</p> <p>(xxii) <b>Cost of the Proposed Scheme:</b> Rs. 545.82 Crores.</p> <p>(xxiii) <b>Benefits of the project:</b> The project will create direct and indirect employment opportunities and boost the local economy.</p> <p>(xxiv) <b>Employment potential: 40,000 Persons.</b></p> <p>(xxv) <b>ToR Details:</b> ToR was granted vide letter dated 18<sup>th</sup> June, 2015.</p> <p>(xxvi) <b>Public Hearing:</b> Public Hearing was conducted on 7<sup>th</sup> October, 2016 at Village Alipur, Panchkula, Haryana.</p> <p>(xxvii) <b>If any court case pending for violation environmental laws:</b> There is no court case pending for violation environmental laws in the project.</p>
3.3.2	The EAC, while deliberations, noted the following:



	<p>(i) The categorization of industries to be housed in the proposed industrial estate is yet to be firmed up. This would decide the jurisdiction for project appraisal whether would be at the State or Central level.</p> <p>(ii) To meet the water requirement of 6.14 MLD, Haryana Irrigation and Water Resources Department has expressed its inability due to no canal network/system. As such, there is no other option but to resort to the ground water availability which was not allowed while granting the ToR.</p> <p>(iii) The project site has been categorized into 'critical' category as per the latest ground water assessment done by the CGWB. For ground water withdrawal to meet the requirements for infrastructure projects, a formal request is yet to be made by the project proponent to the Ground Water Cell/Department in the State Government for recommending to the CGWA.</p> <p>(iv) The details contained in the EIA/EMP reports are deficient in respect of the ecological aspects. There is no distribution of <i>Ratufa indica</i> (Indian Giant Squirrel) in North India. Himalayan Black Bear is shown in the list of mammals in the project site, which is not found in this area. Similarly, three-striped Palm squirrel as mentioned in the mammals list actually occurs south of Narmada River whereas Five-striped Palm Squirrel are found in this area.</p>
<b>3.3.3</b>	The proposal was <i>deferred</i> for want of inputs as stated in above para.
<b>3.3.4</b>	During detailed deliberations during 193 <sup>rd</sup> meeting held on 26 <sup>th</sup> July, 2018, the EAC observed that the project proponent has submitted the application to Central Ground Water Board for permission to withdraw ground water for the proposed project. Even though the EAC realised that ToR does not allow the abstraction of groundwater for this project, the committee re-considered the condition related to groundwater abstraction provided availability of groundwater is established.
<b>3.3.5</b>	<p>Based on the detailed deliberation during 193<sup>rd</sup> meeting held on 26<sup>th</sup> July, 2018, the EAC deferred the decision and sought following information for further consideration of the proposal:</p> <p>(i) Copies of consents for Phase-1.</p> <p>(ii) Water balance for the proposed project.</p> <p>(iii) Green belt development plan.</p> <p>(iv) NOC from CGWA to be obtained. Impact assessment of ground water profile due to GW abstraction to be prepared and submitted to the EAC.</p> <p>(v) Detailed presentation be made to the queries raised in earlier EAC meetings vis-à-vis groundwater clearance.</p>
<b>3.3.6</b>	The proposal was considered in 223 <sup>rd</sup> EAC meeting held on 23 <sup>rd</sup> September, 2019 wherein it was observed that proponent has not submitted information about critical issues related to CER, ZLD and commitment of proponent on

	<p>issues raised during Public Hearing etc. In view of this, EAC <b>deferred</b> the proposal for want of following information/documents:</p> <ul style="list-style-type: none"> <li>(i) Submit revised EIA/EMP report as per generic structure defined in the EIA Notification, 2006 as amended from time to time.</li> <li>(ii) Submission of Form-2 in hard copy.</li> <li>(iii) Details of commitments made by proponent during Public Hearing in tabular form.</li> <li>(iv) Detailed plan for achieving 100% ZLD for the proposed project.</li> <li>(v) Details of CER (on slab basis) as per provisions of Ministry's OM dated 1<sup>st</sup> May, 2018.</li> <li>(vi) Undertaking that no activity has been started for this project.</li> <li>(vii) Undertaking that proposed site is not situated in the critically polluted area as identified by CPCB.</li> <li>(viii) Proponent is required to make detailed presentation before EAC providing information about all queries raised by EAC during appraisal process of this project.</li> </ul>									
<p><b>3.4</b></p>	<p>Development of Model Economic Township at Jhajjar, Haryana, by M/s Model Economic Township Limited, Haryana - <b>Further consideration for Extension of validity of Environmental Clearance</b>  [Proposal No. IA/HR/NCP/111197/2019] [F. No. 21-39/2011-IA-III]</p>									
<p><b>3.4.1</b></p>	<p>The project proponent along with the EIA consultant M/s Perfect Enviro Solutions Private Limited, made a presentation and provided the following information before the Committee:</p> <ul style="list-style-type: none"> <li>(i) The Project is for Extension of validity of Environmental Clearance issued by this Ministry vide letter no. 21-39/2011-1A.III dated 16<sup>th</sup> August 2012 as amended vide letter of even no. dated 24<sup>th</sup> September, 2012. Transfer of Environment Clearance was done in name of Model Economic Township, vide Ministry's letter dated 26<sup>th</sup> March, 2016.</li> <li>(ii) <b>Location:</b> Village-Dadri Toe, Yakubpur, Sondhi and Bir Dadri Tehsil-Jhajjar, District- Jhajjar, State- Haryana, Pin Code- 124103.  The MET project with an area of 752.72 Hectares (1860 acres) is located at Latitude 28° 32'22"N to 28° 29'38"N and Longitude 76° 47' 3"E to 76° 44' 2"E.</li> <li>(iii) Land use:</li> </ul> <table border="1" data-bbox="414 1892 1396 2004"> <thead> <tr> <th>Land use</th> <th>Area (m<sup>2</sup>)</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Industrial</td> <td>3844500</td> <td>51</td> </tr> <tr> <td>Residential</td> <td>748700</td> <td>10</td> </tr> </tbody> </table>	Land use	Area (m <sup>2</sup> )	Percentage (%)	Industrial	3844500	51	Residential	748700	10
Land use	Area (m <sup>2</sup> )	Percentage (%)								
Industrial	3844500	51								
Residential	748700	10								

Commercial	303400	4
Transport & Communication	1133100	15
Open spaces/green	768900	10
Utilities	364200	5
Public/Semi-Public Buildings	364400	5
<b>Total Plot Area</b>	<b>75,27,200 m<sup>2</sup></b>	<b>100 %</b>

- (iii) **Construction Status-** The Infrastructure development work in phase 1 over 236 acres is 55.7 % and in Phase 2 of 561 acres is 16.6%. Development of Trunk Power Supply System, Trunk Water Line System and Internal infrastructure works over 236 acres, Industrial Colony over 561 acres is under progress.
- (iv) **Water requirement, source, status of clearance:** Total water requirement for the project is 33.10 MLD. Source: Water has been allocated by the Haryana Govt. from NCR water supply channel.
- (v) **Waste water:** The waste water generation will be 10.45 MLD from Industries and 11.10 MLD from Non- Industrial areas.  
The ETP-1 of total capacity of 10.25 MLD as a common ETP for both industrial and domestic waste and ETP-2 of total capacity of 11.25 MLD will be installed.  
19.40 MLD of treated waste water will be generated, of which 16.49 MLD will be reused and recycled for various purposes like flushing, horticulture, industrial and other miscellaneous use, and excess 3.64 MLD treated waste water will be discharged in Drain no.8.
- (vi) **Solid Waste Management:** About 102.17 TPD solid waste will be generated in the project. The biodegradable waste (37.7 TPD) will be processed in OWC and the non-biodegradable waste (Industrial waste) generated (64.4 TPD) will be handed over to authorized local vendor.
- (vii) **Hazardous Waste Management:** Hazardous waste generated would be stored by industrial units and would be sent directly to the nearest CHWTSDF at Nimbua, Punjab (managed by Nimbua Greenfield Pvt. Ltd.) or CHWTSDF at Village Pali in Faridabad as per the Hazardous waste (Management, Handling and trans boundary Movement) rules,2008 and amendment thereof.
- (viii) **Power requirement:** Total power requirement during operation phase is 165 MW and will be met from Uttar Haryana Bijli Vitran Nigam Limited at METL cost. A 220/33 kv substation and 33/11 kv substations for the purpose are under establishment by METL.
- (ix) **Details of water bodies, impact on drainage, if any:** There is no water body within the site. Hence, there will be no changes in water bodies on the land. Natural contour and drainage pattern of the site will be disturbed

	<p>due to construction of the project, therefore artificial contour shall be maintained.</p> <p>(x) <b>Rain Water Harvesting:</b> Rooftop rainwater of buildings will be channelized to natural drain.</p> <p>(xi) <b>Details of tree cutting:</b> No tree shall be cut.</p> <p>(xii) <b>Green belt development (20 % of construction projects and 33 % for others):</b> The green belt for the proposed project is planned to provide a clean, healthy and beautiful green environment. A green belt of 76.89 ha would also be developed. In addition, 8.8 ha of road side plantation would be developed. Moreover, each plot would have its own green belt.</p> <p>(xiii) The ultimate freight traffic envisaged in the Project Area is about 700 per day. Plots with area <math>\geq</math> 10 acres would have in-house parking facility.</p> <p>(xiv) For smaller plots there would be common parking facility. The total parking requirement is estimated at 75% of the truck traffic generated by the smaller plots – i.e. 75% of 30% of 700 trucks = 105 trucks – say 125 trucks.</p> <p>(xv) Adopting a norm of 75 sq.m of gross area per truck, the total area required for the ultimate truck traffic would be about 9,375 sq.m or say 2.5 acres which can accommodate a minimum of 135 trucks at any time.</p> <p>(xvi) Loading/unloading areas with repair shops/driver restrooms/dhabas/restaurants will be provided.</p> <p>Energy Conservation measures are adopted for the common areas as well as through individual units.</p> <p>(xvii) <b>Whether the project is in Critically Polluted area:</b> No.</p> <p>(xviii) <b>National Park/ Wild Life Sanctuary in 10 km radius area &amp; Eco-Sensitive Zone in 10 km radius area:</b> There is no wildlife sanctuary/national park within 10 kms radius. There is no Eco Sensitive zone within 10 kms.</p> <p>(xix) <b>If the project involves diversion of forest land, extend of the forest land:</b> No forest land is involved.</p> <p>(xx) <b>Court cases, if any:</b> There is no court case pending against the project.</p> <p>(xxi) <b>Investment/Cost of the project:</b> The project cost has been revised to Rs. 2615.30 Crores (Rs 1860 Crores as per ToR).</p> <p>(xxii) <b>Employment</b> potential 60,600 persons including 50,500 direct employment &amp; 10,100 indirect employment.</p> <p>(xxiii) <b>Benefits of the project:</b></p> <p><b>Physical Infrastructure-</b> Roads, water supply, electricity distribution etc.</p>
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**Eco-Industrial Development-** Industrial development in the proposed MET project is over an area of 752.72 Ha. The strategic planning of the proposed MET project for large scale industries will bring more tangible benefits to the community in terms of social, cultural and economic development.

The telecommunication facility, health establishments, recreation facilities, etc are some other tangible benefits that the surrounding areas of Jhajjar stand to gain with the establishment of the proposed MET project.

**Socio Economic Development-** The complementing analogy of socio-economic, cultural, institutional and industrial profile of Jhajjar will get larger face lift and the development of the district, as a whole, will be sustainable and responsive. The total direct employment estimated in the project area is about 50,500 persons & 10,100 indirect employment.

(xxiv) **Public Hearing:** Public Hearing was conducted on 28 December 2011 at project site. The major issues raised during the public hearing were the effects of air emissions, wastewater treatment and disposal, waste disposal, the provision of project jobs and the construction of local facilities (e.g. hospital, girls school & sports stadium) and responses were as stated below:

- a. Response of PP: Reliance Haryana SEZ Limited replied that the discharge of wastewater from the site and that sewerage would be fully treated.
- b. Reliance officials also pointed out that emission levels in air would be lower than the applicable MoEFCC and CPCB limits as notified, and that SPM emissions would also be at acceptable levels due to the use of high efficiency air pollution control equipment.
- c. The District Collector of Jhajjar stated that the issues of project jobs and the construction of various facilities should be complied by the Project proponent.

(xxv) Proponent has submitted following undertakings:

- That M/s Model Economic Township Limited is developing and Industrial colony of 752.752 ha Model Economic Township at Jajar, Haryana.
- That for the treatment of industrial as well as domestic waste water a CETP of total capacity of 10.25 MLD will be installed at project site.
- That project area is greater than 500 ha and still in developmental stage.

	<ul style="list-style-type: none"> <li>• That the project area will house at least one or more less polluting category B industry.</li> </ul> <p>(xxvi) Proponent has submitted another undertaking, vide their letter dated 20<sup>th</sup> August, 2019, that they have inadvertently submitted (online along with application) completion date of residential portion as September, 2025 and that the completion date for all the works including residential portion is July, 2022. They have specified that delay in project implementation due to Government policies for land acquisition and time consuming process of land purchase/consolidation. It was ensured by proponent that all the work shall be completed within extension period.</p> <p>Submitted details of activities under Corporate Environmental Responsibilities, as under:</p> <table border="1" data-bbox="347 748 1436 1066"> <thead> <tr> <th>Sl. No.</th> <th>CER activity</th> <th>Amount (Rs. In Lakh)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Drinking water, sanitation and healthcare</td> <td>309.68</td> </tr> <tr> <td>2.</td> <td>Waste Management</td> <td>6.90</td> </tr> <tr> <td>3.</td> <td>Skill Development</td> <td>94.89</td> </tr> <tr> <td>4.</td> <td>School Infrastructure Development</td> <td>48.31</td> </tr> <tr> <td>5.</td> <td>Education</td> <td>226.00</td> </tr> <tr> <td>6.</td> <td>Plantation and Horticulture</td> <td>18.69</td> </tr> <tr> <td>7.</td> <td>Village Infrastructure</td> <td>1403.18</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>2107.65</b></td> </tr> </tbody> </table>	Sl. No.	CER activity	Amount (Rs. In Lakh)	1.	Drinking water, sanitation and healthcare	309.68	2.	Waste Management	6.90	3.	Skill Development	94.89	4.	School Infrastructure Development	48.31	5.	Education	226.00	6.	Plantation and Horticulture	18.69	7.	Village Infrastructure	1403.18		<b>Total</b>	<b>2107.65</b>
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<p><b>3.4.2</b></p>	<p>The EAC considered the proposal in 222<sup>nd</sup> meeting on 20<sup>th</sup> August, 2019, wherein it is observed that the proponent has submitted detailed information and undertakings as desired by the Ministry. However, during finalisation of these minutes, an EAC member, a representative of the Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD &amp; GR) pointed out that Proponent was granted approval by Ground Water Authority for withdrawal of ground water. On perusal of EC, it was observed that proponent was authorised to use surface water only. However, the proponent has been reportedly extracting ground water without any EC amendment in this regard. The EAC opined that proponent shall get amendment in EC for use of ground water for the said project.</p> <p>In view of above, the EAC <i>deferred</i> the proposal for want of above mentioned clarification along with the latest certified compliance report from concerned regional office.</p>																											
<p><b>3.4.3</b></p>	<p>EAC, after detailed deliberations during 223<sup>rd</sup> meeting of EAC held on 23<sup>rd</sup> September, 2019, observed:</p> <p>(i) Time bound action plan was submitted on observations of Ministry's Regional Office regarding compliance of EC condition.</p> <p>(ii) Proponent has received approval for initial draw of 12.5 MLD (5 cusecs) from NCR Channel vide Letter No. 2207/710 dated 16<sup>th</sup> June, 2017:</p>																											

	<ul style="list-style-type: none"> <li>• 7.5 MLD (3 Cusecs) at 47.100 Kms of NCR Channel</li> <li>• 5 MLD (2 Cusecs) at 61.925 Kms of NCR Channel</li> </ul> <p>(iii) Draw of water at RD 61.925 Kms enhanced to 12.5 MLD (5 cusecs) vide Memo No:- 2/108/1/W-1/W dated 20<sup>th</sup> June 2019.</p> <p>(iv) Proponent has submitted an undertaking that:</p> <ul style="list-style-type: none"> <li>• The proponent has obtained approval from CGWA to extract 3388 m<sup>3</sup>/day of ground water (not exceeding 12,36,620 m<sup>3</sup>/year) through 24 shallow and deep tube wells till surface water is made available through NCR channel. The approval is valid till 14<sup>th</sup>February, 2021.</li> <li>• At present work on construction of Water Treatment Plant and laying of rising mains/transmission pipelines from NCR Channel to WTP and from WTP to the project site is under progress and will be completed in 8-10 months.</li> <li>• Upon start of surface water supply, under intimation to CGWA and MoEF&amp;CC, no ground water shall be withdrawn except during occasional breakdown of the external water supply system.</li> </ul>
<p><b>3.4.4</b></p>	<p>In view of above mentioned observations of EAC during its 223<sup>rd</sup> meeting on 23<sup>rd</sup> September, 2019, and justifications for extension of EC validity by proponent, EAC <b>recommended</b> the proposal for <b>extension for validity of Environmental Clearance</b>, granted vide Ministry's letter No. 21-39/2011-1A.III dated 16<sup>th</sup> August 2012, for three years w.e.f. 16<sup>th</sup> August, 2019 to 15<sup>th</sup> August, 2022, on same terms and conditions as specified in EC letter dated 16<sup>th</sup> August, 2012, in addition to specific conditions mentioned below:</p> <p>(i) Adequate RWH structure to be created in consultation with CGWA to recharge the ground water to compensate its abstraction for the project activities.</p> <p>(ii) Since, project proponent has submitted an undertaking that completion of water supply system will take 8-10 months, the proponent shall use only surface water from 1<sup>st</sup> August, 2020 onwards for this project. No ground water shall be used in any case.</p> <p>(iii) 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.</p> <p>(iv) Used LEDs shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible. Energy conservation measures should be as per Bureau of Energy Efficiency (BEE) standards.</p> <p>(v) The green belt/plantation of to a width of 15 m should be provided all along the periphery of industrial area with native species. The individual units</p>

	<p>should keep 33% of allotted area as green area with native place. The time bound action plan for green belt/plantation be submitted to the MoEF&amp;CC and concerned Regional Office within three months of issue of this letter.</p> <p>(vi) All the topsoil excavated during development/construction activities should be stored for use in horticulture/landscape development within the project site. Report should be submitted to MoEF&amp;CC and its Regional Office concerned.</p> <p>(vii) For monitoring of land use pattern, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, shall be prepared (for any one particular season which is consistent in the time series), and the report submitted to MoEF&amp;CC and its concerned Regional office.</p> <p>(viii) The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.</p> <p>(ix) As per the Ministry's Office Memorandum No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018, and proposed by the project proponent, an amount of Rs.21.0765 Crore (on slab basis for total investment of Rs. 2615.30 Crores) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as support to Panchayats/local government, schools w.r.t. sanitation, health and hygiene, construction of public toilets in the surrounding villages, medical camps, rainwater harvesting, Installation of street lights in nearby villages as per requirement, rejuvenation and creation of water ponds, augmentation of drinking water facilities and provision of solid waste facilities viz. vermi compost and safe drainage of waste water in consultation with concerned Panchayats. 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 a project and be monitored. The monitoring report shall be submitted to this Ministry's Regional Office concerned as a part of half yearly compliance report, and to the concerned authorities including District Collector. It should be posted on the website of the project proponent.</p>
<b>3.5</b>	Development of Mega Industrial Park in an area of 6475.10 acres at Kopparthy, Tadigotla, Yadavapuram, Thollaganganapalli, Ambavaram & Rampathadu Villages of Chintakomma Dinne, Vallur & Pendlimarri Mandals in YSR Kadapa



	District, Andhra Pradesh by M/s Andhra Pradesh Industrial Infrastructure Corporation Limited - <b>Terms of Reference</b> [Proposal No. IA/AP/NCP/114919/2019] [F.No. 21-1/2016-IA.III]																								
<b>3.5.1</b>	<p>The project proponent along with the EIA consultant M/s Hubert Enviro Care Systems Private Limited, Chennai, made a presentation and provided the following information before the Committee:</p> <p>(i) <b>Proposal:</b> Proposed development of Mega Industrial Park with an area of 6415.10 areas by Andhra Pradesh Industrial Infrastructure Corporation (APIIC) Limited.</p> <p>(ii) <b>Location:</b> Kopparthy, Tadigotla, Yadavapuram, Tholaganganapalli, Ambavaram, Rampathadu Villages, Chintakomma Dinne, Vallur and Pendlimarri Mandals, YSR Kadapa District, Andhra Pradesh.</p> <p>(iii) <b>Land Use:</b> Total area- 6415.10 Acres (2596.10 Ha). The entire land is acquired by APIIC Limited.</p> <p>(iv) <b>Project components-</b> Plotted area – 4745.46 Acres, (Different type of industries are proposed on the plotted area), Roads – 418.14 Acres, open space and greenbelt -748.38 Acres, common facilities- 293.15 acres, (Administration Building is proposed and common Facilities like Bank, ATM, canteen, post office, weigh bridge, truck parking area, CETPs, fire station and Occupational Health Centre are proposed) and water bodies – 209.97 acres.</p> <p>(v) <b>Land use of the site and around the site up to 10 km radius:</b> The land in the project area is mostly barren scrub land. Land use around the site is as follows.</p> <table border="1" data-bbox="443 1406 1302 1982"> <thead> <tr> <th>Land use Land Cover</th> <th>Area in percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cropland</td> <td>57.02</td> </tr> <tr> <td>Fallow land</td> <td>9.60</td> </tr> <tr> <td>Deciduous</td> <td>8.76</td> </tr> <tr> <td>Scrub land</td> <td>7.22</td> </tr> <tr> <td>Scrub Forest</td> <td>4.24</td> </tr> <tr> <td>River/ Stream/ Canals</td> <td>4.38</td> </tr> <tr> <td>Reservoirs/ Lakes/ Ponds</td> <td>3.26</td> </tr> <tr> <td>Urban</td> <td>2.48</td> </tr> <tr> <td>Rural</td> <td>1.42</td> </tr> <tr> <td>Plantation</td> <td>1.10</td> </tr> <tr> <td>Salt affected land</td> <td>0.19</td> </tr> </tbody> </table>	Land use Land Cover	Area in percentage (%)	Cropland	57.02	Fallow land	9.60	Deciduous	8.76	Scrub land	7.22	Scrub Forest	4.24	River/ Stream/ Canals	4.38	Reservoirs/ Lakes/ Ponds	3.26	Urban	2.48	Rural	1.42	Plantation	1.10	Salt affected land	0.19
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Barren Rocky Area	0.18
Mining	0.11
Sandy Area	0.03
<b>Total</b>	<b>100</b>

- (vi) **CETP** – Yes. Type of effluent, Quantity, effluent conveyance system from the member units to CETP. CETPs of appropriate capacity will be provided in a phased manner in accordance with the development in the park to treat industrial effluent. Latest technology will be used for sewage treatment and the treated sewage will be used for greenbelt development.
- (vii) **Solid Waste Management:** Organic waste (1418 kg/day) will be composted through MSW processing and Inorganic waste (1732 kg/day) will be disposed to APPCB authorized vendors.
- (viii) **Hazardous Waste Management:** Individual industries will have their own Hazardous Waste Management Facility.
- (ix) **Power requirement:** Total power requirement during operation phase is 24 MW and will be met from APCPDCL.
- (x) Rehabilitation involved, if any: No.
- (xi) Water bodies, diversion, if any: No.
- (xii) **Details of tree cutting:** The site is almost a vacant land and to the maximum tree cutting will be avoided.
- (xiii) **Whether the project is in Critically Polluted area:** No.
- (xiv) **National Park/ Wild Life Sanctuary in 10 km radius area & Eco-Sensitive Zone in 10 km radius area:** Pennar river≈6.55 km - NNE
- (xv) **If the project involves diversion of forest land, extend of the forest land:** No forest land is involved.
- (xvi) **Court cases, if any:** no
- (xvii) **Investment/Cost of the project:** Rs. 1305.75 Crore.
- (xviii) **Employment:** During Construction: 600 Nos. During Operation: 7000 Nos
- (xix) **Benefits of the project:** The proposed project will create employment opportunities for the surrounding populations directly or indirectly during and after industrial estate setup, which will enhance the overall growth of the surrounding regions. The industrial estate will create an environment of indirect employment for loading, unloading, transportation and other peripheral activities including cultural, educational, small industries and

	<p>hotel industries around the area.</p> <p>(xx) <b>Public Hearing:</b> Public Hearing was conducted on 04.08.2017 for 6553.04 Acres at Project site. The major issues raised during the public hearing were employment and land compensation and responses were APIIC will take necessary step to solve the issue.</p>
<b>3.5.2</b>	<p>EAC, after detailed deliberations during 223<sup>rd</sup> meeting of EAC held on 23<sup>rd</sup> September, 2019, observed that:</p> <ul style="list-style-type: none"> <li>(i) Mis-matching of information about water requirement and waste water etc. in documents submitted and presentation made by the proponent.</li> <li>(ii) Project is located at the upstream of a water body. Proponent has not provided details of watershed and drainage pattern etc.</li> <li>(iii) There is lack of proper planning for selecting site for the proposed project.</li> <li>(iv) Not provided information about categories of industries as per schedule of EIA Notification, 2006.</li> <li>(v) Not provided certificate from CWLW regarding distance of Sri Lankamalleswara Wildlife Sanctuary.</li> <li>(vi) Not provided details of green belt to be developed for the project.</li> <li>(vii) Airport is located at the distance of 210m.</li> </ul>
<b>3.5.3</b>	<p>Considering above mentioned observations of EAC during 223<sup>rd</sup> meeting on 23<sup>rd</sup> September, 2019, the proposal is <b>deferred</b> for want of following information/documents:</p> <ul style="list-style-type: none"> <li>(i) Provide revised document with accurate figures regarding water requirement and waste water and other details as per the annexure in agenda</li> <li>(ii) Provide details of watershed and drainage pattern etc. along with the maps at SOI topo sheets Provide details of alternate sites analysed for selecting proposed site.</li> <li>(iii) Provide information about categories of industries as per schedule of EIA Notification, 2006 along with detailed layout plan as per zoning atlas.</li> <li>(iv) Provided certificate from CWLW regarding distance of Sri Lankamalleswara Wildlife Sanctuary.</li> <li>(v) Provide details of green belt to be developed for the project.</li> <li>(vi) Permission to use ground water from the competent authority.</li> <li>(vii) Submit undertaking that no construction work is started at the project site.</li> <li>(viii) Submit the Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities the</li> </ul>

	provisions of the Airport Noise Zone Standards [G.S.R. 568(E) dated 18 <sup>th</sup> June, 2018].
<b>3.6</b>	<p><b>Any other item with the permission of Chair.</b></p> <p>Construction of 4/6 lane road (NH-754K) from Raisar, Bikaner (km 0.000) to Deogarh, Jodhpur (km 180.000) in the state of Rajasthan, part of Amritsar to Kandla Expressway under Bharatmala Pariyojana by M/s National Highways Authority of India - <b>Re-consideration for Environmental Clearance</b></p> <p>[Proposal No. IA/RJ/NCP/94368/2019][F. No. 10-63/2018-IA.III ]</p>
<b>3.6.1</b>	<p>The project proponent along with the EIA consultant M/s Global Management and Engineering Consultants International, made a presentation and provided the following information to the Committee:</p> <ul style="list-style-type: none"> <li>(i) The proposed project is a new 4/6 lane National Highway (NH-754K) connecting Raisar in Bikaner district to Deogarh in Jodhpur district, Rajasthan. The proposed alignment is a 175.758 km long and lies in North-West region of Rajasthan. The alignment terminates on NH-125 at Deogarh, which is near Jodhpur.</li> <li>(ii) <b>Location:</b> Project Area falls in Bikaner and Jodhpur district of western Rajasthan State.</li> <li>(iii) <b>Land use of the site and around the site up to 10 km radius:</b> The land use pattern on 10 km either side of the project road is predominately agriculture followed by fallow, wastelands and few habitations. The proposed project neither passes through any protected area i.e. wildlife sanctuary, national park, conserve reserve, nor falls within 10 km boundary.</li> <li>(iv) <b>Land Acquisition and Proposed RoW:</b> The proposed land acquisition for the proposed alignment is approx. 1394.68 ha and the proposed RoW of the project 70m green field.</li> <li>(v) <b>Total water requirement and its source:</b> Total requirement of water for the construction is estimated 1000 KLD which will be taken from IGNP canal and ground water sources.</li> <li>(vi) <b>Municipal Waste (domestic and or commercial wastes):</b> Construction Phase Domestic Waste shall be generated from temporary construction camps @ grams per head per day. The solid waste will be disposed as per Solid Waste Management Rules, 2016. Operation Phase Domestic Waste be produced from commercial establishment will be disposed off at municipal waste disposal site. Solid waste will be generated during operation phase from way side amenities and will be handled as per established rules.</li> </ul>

(vii) **Hazardous Waste (as per Hazardous Waste Management Rules):** Used/Waste oil and lubricants will be utilized in oiling shuttering and remaining balance will be sold to authorized recyclers. The hazardous waste (management, handling & trans-boundary movement) rules, 2018 and its amendments till date will be followed.

(viii) **Water bodies, diversion if any:** The proposed road alignment crosses IGNP canal only at km 145.

(ix) **If the project involves diversion of forest land, extend of the forest land:** The Proposed Project does not involve any diversion of forest land. Approx 5 m wide area for whole project length on either side is reserve for new plantation.

(x) **Tree cutting, types, numbers, girth size etc.:** Number of affected Trees is approx. 9000.

Species Wise Details

Name of Tree	Number
Khejri	3600
Babul	1350
Rohida	900
Neem	1080
Others	2070
<b>Total</b>	<b>9000</b>

(xi) **Rehabilitation involved if any:** Total 396 no. of structures will be affected due to proposed road. The NHAI shall compensate the affected title holder as per NHAI Act 1956.

(xii) **Whether the project is in Critically Polluted area:** No

(xiii) **National Park/ Wild Life Sanctuary in 10 km radius area & Eco-Sensitive Zone in 10 km radius area:** The proposed project neither passes through any protected area i.e. wildlife sanctuary, national park, conserve reserve, nor falls within 10 km boundary.

(xiv) **Parking requirement with provision made:** Parking is provided 105 nos. of four wheeler vehicles and 420 nos. of two wheeler vehicles.

(xv) **Investment/Cost of the project:** INR 3000 Crores (approx.)

(xvi) **Benefits of the project:**

- It will Improve the basic facilities for international trade via road transportation;
- It will provide connectivity for the remote areas existed in western Rajasthan, North-West Gujarat and southern part of Punjab with main stream of development.

	<ul style="list-style-type: none"> <li>• It is an economic corridor which provides direct and quick excess from Amritsar to Kandla Port for export and import of goods.</li> <li>• It will decrease the travelling time taken in the present route and provide cost effective benefits to the farmers and industries.</li> <li>• It will provide better road connectivity to Punjab, Haryana, Rajasthan and Gujarat.</li> <li>• It will create direct and indirect employment in western Rajasthan where resources are very less for live hood.</li> <li>• It will play vital role to bust up the economy and economic growth rate of locality, States, and Nation also.</li> </ul> <p>(xvii) <b>Employment potential:</b> Total 2,78,100 jobs during construction period (3 years) and about 2,70,000 jobs during maintenance period (10-15 years).</p> <p>(xviii) <b>ToR Details:</b> The ToR for the project was accorded vide letter No.10-63/2018-IA.III dated 4<sup>th</sup> January, 2019.</p> <p>(xix) <b>Public Hearing:</b> Public Hearing was conducted at:</p> <ul style="list-style-type: none"> <li>• 29<sup>th</sup> January, 2019 at Govt. Sec. School Sirmandi, Jodhpur.</li> <li>• 30<sup>th</sup> January, 2019 at Collectorate Office, Bikaner</li> </ul> <p>Major issues raised during the public hearing and response of project proponent are:</p> <table border="1" data-bbox="384 1169 1437 1942"> <thead> <tr> <th data-bbox="384 1169 818 1236">Major Issues</th> <th data-bbox="818 1169 1437 1236">Respond from NHAI</th> </tr> </thead> <tbody> <tr> <td colspan="2" data-bbox="384 1236 1437 1303">Public Hearing at Sirmandi Jodhpur</td> </tr> <tr> <td data-bbox="384 1303 818 1639">Related to tree cutting, low survival rate of new planting trees, mitigation measures for minimization of adverse impact of dust particulates on locality, compensation for land acquisition, safety of cattle's during operation phase etc.</td> <td data-bbox="818 1303 1437 1639">NHAI has responded for adopting tree species which are resistant against hot &amp; dry climatic conditions, adopting adequate measures to control dust particulates, proper compensation of land as per rules, barricading of highway to check the access of animal for whole length except the locations of underpasses, overpasses, cross drainage structures, junction etc.</td> </tr> <tr> <td colspan="2" data-bbox="384 1639 1437 1706">Public Hearing at Bikaner</td> </tr> <tr> <td data-bbox="384 1706 818 1942">Related to maintenance period for tree to be planted along the corridor, what kind of measures to be adopted to control the access of wild animal and cattle's etc.</td> <td data-bbox="818 1706 1437 1942">NHAI has responded for adopting minimum 3 year of maintenance for newly planted trees along the corridor, provision of barricading, box culverts and under passes at adequate distance etc.</td> </tr> </tbody> </table> <p>(xx) <b>If any court case pending for violation of the environmental laws:</b> No.</p>	Major Issues	Respond from NHAI	Public Hearing at Sirmandi Jodhpur		Related to tree cutting, low survival rate of new planting trees, mitigation measures for minimization of adverse impact of dust particulates on locality, compensation for land acquisition, safety of cattle's during operation phase etc.	NHAI has responded for adopting tree species which are resistant against hot & dry climatic conditions, adopting adequate measures to control dust particulates, proper compensation of land as per rules, barricading of highway to check the access of animal for whole length except the locations of underpasses, overpasses, cross drainage structures, junction etc.	Public Hearing at Bikaner		Related to maintenance period for tree to be planted along the corridor, what kind of measures to be adopted to control the access of wild animal and cattle's etc.	NHAI has responded for adopting minimum 3 year of maintenance for newly planted trees along the corridor, provision of barricading, box culverts and under passes at adequate distance etc.
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<p><b>3.6.2</b></p>	<p>The proponent along with the EIA consultant made presentation before EAC during its 208<sup>th</sup> meeting held on 19-20 February, 2019. The observations of EAC are as under:</p> <ul style="list-style-type: none"> <li>(i) Cumulative Impact Assessment will be carried after completion of EIA study of all parts under Economic corridor (NH-754k).The actual length of alignment is 175.758 km</li> <li>(ii) There is no protected area or animal corridors within 10 km radius of proposed corridor. NOC from Chief Wildlife Warden is under progress.</li> <li>(iii) 1000 KLD Water for construction will be taken from canal and ground water sources. The water will be extracted after permission of the concerned authority.</li> <li>(iv) The proposed alignment is passing through open area where comparatively less number of trees are existed. Permission for tree cutting from District Collector (Bikaner &amp;Jodhpur) is under progress.</li> <li>(v) There is no forest diversion involved in this project.</li> <li>(vi) Approx. 9000 trees fall within the proposed project corridor. Relocating the existing trees will be taken as far as possible.</li> <li>(vii) Approx. 90000 trees will be planted within available space along the proposed corridor alignment for better green belt development.</li> <li>(viii) There are only one rainy season Nala at km 156 and one canal crossing at km 145. Minor bridges are proposed on both crossing to avoid any adverse impacts. Adequate measure will be followed at time of construction near these crossings. Silt Fencing, stone pitching gabion wall etc. are proposed to prevent sedimentation in canal water.</li> <li>(ix) The Estimated EMP cost is 30.60. Crores, which is exclusive of CER.</li> <li>(x) The CER budget is Rs. 15.53 Crores.</li> </ul>
<p><b>3.6.3</b></p>	<p>The EAC, after detailed deliberations during 208<sup>th</sup>meeting held on 19-20 February, 2019, <b>recommended the project for grant of Environmental Clearance</b>, subject to submission of certificate as mentioned at point no. (i) below and with the following specific conditions in addition to all standard conditions applicable for such projects:</p> <ul style="list-style-type: none"> <li>(i) In compliance to the submission of the proponent, a certificate from Chief Wildlife Warden stating that no Protected Area or Wildlife Corridor falls within the 10 km radius of the proposed alignment shall be submitted to the Ministry.</li> <li>(ii) No ground water to be used for the project as the ground water quality is saline at depths. Only surface water to be used for IGNP (Indira Gandhi Nahar Pariyojana). Approval/permission of concerned</li> </ul>

	<p>authority shall be obtained before drawing surface water from the irrigation canal. State Pollution Control Board (SPCB) concerned shall not issue Consent to operate (CTO) till the project proponent obtains such permission.</p> <p>(iii) The proponent shall obtain permission from the competent authorities for tree cutting along the proposed alignment. A comprehensive plan for afforestation including minimum three times plantation by native species shall be provided.</p> <p>(iv) Relocating the existing trees shall be taken as far as possible. As committed, not less than 90000 trees shall be planted within available space along the proposed corridor alignment for better green belt development.</p> <p>(v) Silt fencing, stone pitching gabion wall etc. shall be constructed to prevent sedimentation in canal water and crossings. Adequate measure shall be followed at time of construction near these crossings.</p> <p>(vi) The RoW shall not exceed 70m at any point of the proposed 8-lane alignment, except for the junction improvement at the intersections of the other roads.</p> <p>(vii) The fund provisions provided for CER i.e. Rs. 15.53 crores, the expenditure details as per the plan shall be submitted to the concerned Regional Office of the Ministry.</p> <p>(viii) The recommendations of Cumulative Impact Assessment shall be implemented under intimation to the Ministry and its Regional Office concerned.</p>
<p><b>3.6.4</b></p>	<p>The EAC members have received a complaint from the EIA Consultant M/s Global Management and Engineers Consultants wherein it is mentioned that Proponent has done a presentation before EAC in illegal manner for obtaining Environmental Clearance for the said project during 208<sup>th</sup> meeting of EAC held on 19<sup>th</sup> February 2019.</p> <p>The EAC (Infra-1) discussed the matter in its 214<sup>th</sup> meeting held on 26<sup>th</sup> April, 2019, and noted the seriousness of the nature of the complaint and it was decided that further discussion/decision on this matter will be done after receiving the comments/clarification from NHAI in the upcoming meeting of EAC in the month of May 2019 .</p>
<p><b>3.6.5</b></p>	<p>The EAC discussed the matter vis-à-vis the complaint during its 215<sup>th</sup> meeting held on 20<sup>th</sup> May, 2019, wherein Dr. Meena Bhaduri, EIA coordinator from M/s GNECI, Jaipur, Shri S.K. Mishra, Project Director (Jodhpur) and Dr. Biswajit Mukhopadhyay GM(Environment) from NHAI appeared before the EAC.</p>








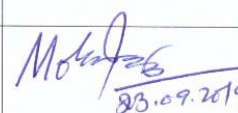
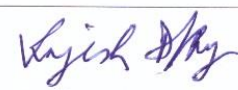

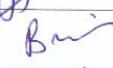
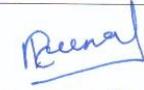
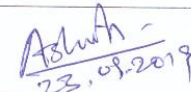
The EAC observed the following points:

- (i) M/s GMECI, Jaipur, vide their letter dated 8<sup>th</sup> April, 2019 and their email dated 8<sup>th</sup> April, 2019, has submitted that proponent has done a presentation before the EAC, during 208<sup>th</sup> meeting of EAC held on 19<sup>th</sup> February 2019 in illegal manner for obtaining Environmental Clearance for the said project. Following allegations were made by M/s GMECI, Jaipur on NHAI:
  - a) According to the complaint, none of their representatives had attended the said meeting held on 19-20 February, 2019.
  - b) The disclosure of consultant and list of experts etc., as given in the EIA report, are actually taken from the website/internet.
  - c) Forged documents were submitted online and presented before the EAC.
  - d) Experts, whose names have been mentioned in the EIA Report, have already left the company (M/s GMECI, Jaipur).
- (ii) A letter was sent from Joint Secretary, MOEF&CC to Chairman, NHAI seeking clarification on these issues.
- (iii) Further, M/s GMECI, Jaipur submitted a letter dated 27<sup>th</sup> April, 2019 to the Ministry informing that they have sent above mentioned complaint letter dated 8<sup>th</sup> April, 2019 and some other person/organisation has used their letter head for sending forged letter. They further submitted that M/s GMECI, Jaipur has been associated as Environmental Consultant after an agreement with M/s Pentacle in association with M/s Jhunjhunu Engineers Private Limited, the DPR Consultant for the said project. They also informed that the draft EIA, final EIA and made presentation on 19<sup>th</sup> February, 2019 before EAC in its 208<sup>th</sup> meeting.
- (iv) In response, Member (Project), NHAI, vide letter No. NHAI/Bharatmala/DPR/Lot-4/Package-6/2017/135024 dated 16<sup>th</sup> May, 2019, has sent a letter stating that as per report received from field units, the entire work has been carried out M/s GMECI, Jaipur. This has been confirmed by M/s GMECI, vide their letter dated 27<sup>th</sup> April, 2019, Jaipur.
- (v) Proponent has submitted following documents:
  - a) Copy of work order/MOU stating that M/s Jhunjhunu Engineers Private Limited, Jaipur has awarded the consultancy work to M/s Global Management and Engineering Consultants International (GMECI), Jaipur, for preparation of EIA report and Forest proposal uploading at the cost of Rs. 2.36 Lakh only.
  - b) Copy of Certificate of Accreditation by QCI/NABET in favour of M/s GMECI, Jaipur, valid up to 3<sup>rd</sup> February, 2019.

	<p>c) Extension of validity of Accreditation by QCI/NABET in favour of M/s GMECI, Jaipur up to 25<sup>th</sup> March, 2019.</p> <p>d) Copy of declaration by consultants/experts contributing to the EIA/EMP studies for the said project.</p> <p>e) Proof of site visit by EIA consultant in the form of a cash receipt for vehicle hire/toll plaza and field photographs.</p>
<p><b>3.6.6</b></p>	<p>After detailed deliberations during the 215<sup>th</sup> meeting on 20<sup>th</sup> May, 2019, EAC has following observations:</p> <p>(i) Since neither the consultant nor his authorized representative was present during the EAC meeting on 19<sup>th</sup> February, 2019, the presentation was illegal.</p> <p>(ii) The response from NHAI is based on the inputs from M/s GMECI, Jaipur only. NHAI should have conducted detailed enquiry in this matter before sending any response to the Ministry.</p> <p>(iii) The complaint letter dated 8<sup>th</sup> April, 2019 was signed by Shri Vinod Saharan, CEO, M/s GMECI, Jaipur. The same complaint was also sent to this Ministry through his email id. <a href="mailto:saharan@gmecinternational.com">saharan@gmecinternational.com</a> on 8<sup>th</sup> April, 2019. Shri Saharan has also signed the disclosure of consultants as well as the letter dated 27<sup>th</sup> April, 2019, stating that the complaint letter was not sent by them.</p> <p>(iv) The EAC members have seen the signature on the letter and prima facie of the opinion that the signatures have been done by one person using pen and that it does not seem to have scanned.</p> <p>(v) Shri Vinod Saharan, CEO, M/s GMECI, Jaipur did not attend the EAC meeting. However, M/s GMECI was represented by EIA Coordinator, Dr. Meena Bhaduri.</p> <p>(vi) The EIA Coordinator has also admitted that she did not attend the Public Hearing.</p> <p>(vii) The EIA Coordinator has admitted that she was not present before EAC during presentation on 19 February, 2019 due to health reasons.</p> <p>(viii) As per attendance record of the 208<sup>th</sup> EAC meeting held on 19 February, 2019, the said proposal was defended by the Project Director, NHAI, Jodhpur and two consultants namely Dr. Mahavir P. Saini and Yaqub Ali Sheikh.</p> <p>(ix) It is worth mentioning that the copy of work order/MOU, signed between M/s Jhunjhunu Engineers Private Limited, Jaipur and M/s GMECI, Jaipur, does not mentioned the date of agreement.</p>

<p><b>3.6.7</b></p>	<p>After detailed deliberations, EAC recommended the following:</p> <ul style="list-style-type: none"> <li>(i) NHA shall conduct detailed investigation in this matter and submit report to this Ministry.</li> <li>(ii) MoEF&amp;CC may initiate independent enquiry in the matter, if required.</li> <li>(iii) Before reaching to any decision, EAC also seeks comments of QCI/NABET regarding involvement of EIA Coordinator and other Functional Area Experts of M/s GMECI, Jaipur, in preparation of EIA/EMP report for the said project.</li> <li>(iv) Recommendations of EAC in its 208<sup>th</sup> Meeting on 19-20 February, 2019, regarding grant of EC to this project may kept on hold and remain suspended till the enquiry report is received and a decision is taken in this regard.</li> </ul>
<p><b>3.6.8</b></p>	<p>QCI/NABET submit their report vide letter dated 5<sup>th</sup> September, 2019. The report was circulated to all EAC members for discussion in the EAC meeting. EAC in its 223<sup>rd</sup> meeting held on 23<sup>rd</sup> September, 2019 discussed the matter in presence of Dr. A.K. Jha, Senior Director, QCI/NABET. The EAC has pointed out following issues and advised QCI/NABET to take action on following points:</p> <ul style="list-style-type: none"> <li>(i) How an email was sent from the e-mail id of CEO of the EIA Consultant by the alleged disgruntled person to this Ministry and what actions have been initiated/taken by EIA Consultant in this regard?</li> <li>(ii) EIA Consultant furnished the declaration without signatures of EIA Coordinator and all Functional Area Experts in Final EIA/EMP report when initially submitted to Ministry. This report was also verified by Shri A.K. Jha, Senior Director, QCI during the said EAC meeting.</li> </ul> <p><b>In this regard action to be initiated by QCI/NABET as per their rules against the EIA consultant organization on the above points and same to be informed to the Ministry.</b></p>
<p><b>3.6.9</b></p>	<p>The EAC after detailed deliberations during 223<sup>rd</sup> meeting held on 23<sup>rd</sup> September, 2019 reiterated earlier recommendations made in the 208<sup>th</sup> meeting held on 19-20 February, 2019 for grant of Environmental Clearance subject to submission of action taken report from QCI/NABET against EIA consultant organization on the above mentioned points.</p>

**List of the Members attended 223<sup>th</sup> meeting of Expert Appraisal Committee for Projects related to Infrastructure Development, Industrial Estate and Miscellaneous projects held on 23<sup>rd</sup> September, 2019 and approved the above minutes.**

Sl. No.	Name of the EAC member	Role/Designation	Signature
1	Dr. Deepak Arun Apte, Director, Bombay Natural History Society (BNHS), Mumbai	Chairman	
2	Dr. V.K. Jain, Professor of Chemistry, School of Sciences, Gujarat University, Ahmedabad	Member	
3	Dr. M.V. Ramana Murthy, Project Director, NIOT Campus, Pallikarai, Chennai	Member	
4	Shri Rajesh I Shah, VIKAS Centre for Development, Ishavasyam, Opp. Lajpatnagar, Eeshita Towers Road, Navrangpura, Navjeevan, Ahmedabad – 380014 (Gujarat)	Member	
5	Dr. N.K. Verma, Former AD, CPCB, New Delhi	Member	
6	Dr. Manoranjan Hota Former Advisor/Scientist-G, MoEF&CC	Member	
7	Dr. Anil Kumar Singh, IFS (Retd), Ex PCCF Assam, Tower F, Float No. 103 Grand Anjara Heritage, Sector 74, Noida, UP	Member	
8	Shri Prabhakar Singh, Special DG, CPWD, Delhi.	Member	
9	Shri Narendra Surana, Managing Director, Bhagyanagar India Limited and Surana Telecom. and Power Limited, Hyderabad	Member	
10	Dr. Mohan Singh Panwar, Associate Professor , H.N.B Garhwal Central University, Srinagar,	Member	 23.09.2019
11	Dr. Anuradha Shukla, Central Road Research Institute (CRRI), Mathura Road, New Delhi	Member	
12	Shri <del>N.K. Gupta</del> , Member (EAC), <i>R. Debroy</i> Scientist E & In-charge (ESS), Central Pollution Control Board,	Member	
13	Dr. D. Chakraborty, Scientist MoWR, RD & GR, New Delhi	Member	
14	Smt. Bindu Manghat ,Director Survey of India New Delhi	Member	
15	Shri Raghu Kumar Kodali, Director/Scientist-F, IA-III Division, MoEF&CC	Member Secretary (Infra-1 EAC)	
16	Shri Ashish Kumar, Joint Director , IA-III, MoEF&CC	Special Invitee	 23.09.2019