

Minutes of 225th 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 22nd October, 2019

1. **Opening remarks of the Chairman**
2. **Confirmation of the minutes of the 223rd meeting held on 23rd September, 2019 at Indira Paryavaran Bhawan, Jor bagh Road, New Delhi:**

The EAC, during confirmation of minutes, suggested following typographical corrections in the minutes of 223rd meeting held on 23rd September, 2019:

| Page # | Item | For | Read as |
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| 20 | 3.6 | 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.... | Construction of 4/6 lane road (NH-754K) from Rasisar , Bikaner (km 0.000) to Deogarh, Jodhpur (km 175.758) in the state of Rajasthan.... |

3. Consideration of Proposals:

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| 3.1 | Development of Bilaspur – Urga section of NH-130A (Raipur – Dhanbad Economic Corridor) start at Junction with NH-130 & NH-130A, near Nehru Chowk, Bilaspur and terminate at junction with NH149B & SH-4 near Urga in the State of Chhattisgarh (approx. 70.2 km) by M/s National Highways Authority of India – Environmental Clearance [Proposal No IA/CG/NCP/113887/2019] [F. No. 10-59/2018-IA.III] |
| 3.1.1 | The project proponent along with the EIA consultant M/s Feedback Infra Private Limited, Gurugram, made a presentation and provided the following information before the Committee: (i) The MoRT&H, vide notification no SO 3808(E) dated 5 th December, 2017, declared as National Highway 130A. (ii) Proposed project is the development of Bilaspur – Urga section of NH-130A (Raipur – Dhanbad Economic Corridor) start at Junction with NH-130 & NH-130A, near Nehru Chowk, Bilaspur and terminate at junction with NH149B & SH-4 near Urga in the State of Chhattisgarh (approx. 70.2 km). The proposed project connects various roads viz NH 49, NH 149 B and SH 4. |

- (iii) The proposed project is a part of Raipur Dhanbad Economic Corridor. The total approximate length of the complete Economic Corridor is 707 km. Design of the various section is under process. Cumulative Assessment shall be submitted once final design is complete for all the sections.
- (iv) **Location:** The proposed project traverses through Bilaspur, Janjgir-Champa and Korba districts. Starts at Junction with NH-130 & NH-130A, near Nehru Chowk, Bilaspur and terminate at junction with NH149B & SH-4 near Urga in the State of Chhattisgarh. The proposed alignment lies between 22°01'23.45"N to 22°15'54.01"N and 82°12'46.50"E 82°47'50.07"E
- (v) The proposed Right of Way (RoW) for the project is 70 m.
- (vi) The villages located along the alignment are Dheka, Karra, Nimtara, Gataura, Parsada, Bhilai, Ralia, Kachhar, Hardadih, Eramsai, Nawagaon, Mudpar, Sankar, Sonadulla, Changori, Amlipali, Son, Piparda, Chandniya, Dhorla, Bachhoud, Charpara, Baloda, Bhilai, Korbi, Dongari, Hardibishal, Khishora, Angarkhar, Forest, Pantora, Baksara, Birda, Chainpur, Gumiya, Katharimaal, Tarda, Junwani, Akharapali, Samipali, Urga, Masan, Bagbuda, Bhaisma and Chitapali.
- (vii) **Landuse:** The proposed alignment mostly passes through agricultural and barren land. The other land types, apart from the agricultural land are fallow and forest land.
- (viii) **Land Use of the Site and around the site up to 10 km radius:** Agricultural and Barren Land. **Total Area-** About 506 Ha.

| Sr. No. | Category | Area in Sq. m. |
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| 1 | Forest Land | 47.60 |
| 2 | Private Land | 68.01 |
| 3 | Government Land | 390.39 |
| | Total | 506.00 |

- (ix) **Project components-** Major project is a road section along with 6 Major bridges, 14 minor bridges, 134 culverts, 2 ROBs, 3 Flyovers, 3 interchanges and 30 Vehicular Underpasses.
- (x) **Total water requirement and its source:** 1508891 KL to be arranged from nearby river and ground water. The permission/clearance if required shall be obtained by the contractor.
- (xi) **Waste water generation, treatment and disposal:** Sewage from labour camp shall be routed to septic tanks / soak pits or bio-toilets. The waste water other than sewage shall be utilized for greenbelt development and dust suppression.
- (xii) **Water bodies, diversion if any:** The proposed project passes

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| | <p>through 3 rivers, 15 irrigation channels and 17 ponds. However, the highway shall not intersect the water bodies' directly as elevated structures are proposed on the above water bodies.</p> <p>(xiii) Recycling / reuse of treated water and disposal: Waste water from rinsing of Batching Plants shall be utilized for dust suppression. Waste water generated from workers shall be treated in septic tanks and bio-toilets provided at site and will be utilized for greenbelt development.</p> <p>(xiv) Hazardous Waste Management: Spent oil as may generate by the DG sets shall be carefully stored in HDPE drums in order to avoid spillage and shall be sold to government approved vendors.</p> <p>(xv) Municipal solid waste generated disposal facility: Approximately 450 Kg of Municipal Solid Waste shall be generated by the workers. It will be collected and disposed of in environmentally acceptable ways.</p> <ul style="list-style-type: none"> • Dark grey bin for non-recyclable waste • Green bin for food/ compostable garden waste • Blue bin for paper waste <p>Recyclable waste would be re-used or disposed of by sale. Garden waste & compostable waste would be composted. Other non-recyclable waste would be disposed of through municipalities.</p> <p>(xvi) NTPC Sipat TPP (potential source of fly ash) is located at about 26 km distance from proposed highway.</p> <p>(xvii) Tree cutting, types, numbers, girth size etc.: Details of tree cutting: Approximately 15000 trees are proposed to be cut for the project. Compensatory afforestation shall be undertaken as per requisite norms.</p> <p>(xviii) Green belt development: Greenbelt development shall be carried out in the median (4m wide) and along both side of the highway as per IRC SP-21:2009. About 1.5 lakh trees shall be planted.</p> <p>(xix) Rain water harvesting: Rain water Harvesting measures- Rainwater harvesting structures shall be provided at regular intervals (500m) for collection of rainwater.</p> <p>(xx) Energy conservation measures with estimated saving: Solar Street light system is proposed to be provided at the junctions provided in or nearby urban/semi-urban areas and over/ underpass/ flyovers. It is proposed to provide solar lights with maintenance free battery or operation & maintenance of such streetlights may be given to the same supplier.</p> |
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| | <p>(xxi) Whether the project is in Critically Polluted area: No.</p> <p>(xxii) National Park/ Wild Life Sanctuary in 10 km radius area: Not applicable</p> <p>(xxiii) Eco-Sensitive Zone in 10 km radius area: Not applicable.</p> <p>(xxiv) If the project involves diversion of forest land, extend of the forest land: 47.6 ha. Application for obtaining forest clearance has already been submitted vide MoEF&CC proposal no. FP/CG/ROAD/34338/2018 dated 22nd June, 2018.</p> <p>(xxv) Investment/Cost of the project: About INR 1182 Crores (Civil Construction Cost)</p> <p>(xxvi) Benefits of the project: The proposed project shall enhance and improve the current route between Bilaspur and Korba which is narrow and zig-zag and thus needs to be straightened, widened and improved geometrically to mobilize the heavy traffic.</p> <p>Also the commuters commuting between the route shall save both time and fuel.</p> <p>The Project will further have following benefits:-</p> <ul style="list-style-type: none"> • High-speed connectivity and access: The projected corridor is a proposed economic corridor. This will avoid traffic congestion and speed-up the freight movement • Decongestion of existing National and State Highways: The proposed corridor will take away traffic pressures from existing SH and NH passing through various cities. Also, long-distance traffic will shift to the proposed corridor, thereby leaving the NH and SH for regional and local usage. • Usage shift: Long-distance traffic will shift from existing roads to the proposed Economic Corridor, resulting in lesser congestion on these highways • Improved safety: Due to access control, the Roadway & Travel Safety of the traffic connecting the cities will be enhanced as there will be minimum distractions & conflict zones • Improvement in Social Infrastructure • Aiding economic growth: The seamless connectivity will provide better access to vehicles as a link to the National Highways. The Project will reduce travel time and provide boost to trade and commerce linked to the regions connected through this economic corridor. • Growth of backward areas: The biggest strength of the |
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| | <p>alignment is that it plans to cover backward districts of Chhattisgarh. As a result of connectivity and access to other parts of the country, these backward areas will be aided to integrate with rest of the world. Further, freight and passenger traffic on the economic corridor will help promoting ancillary economy of these regions.</p> <ul style="list-style-type: none"> • Support to industries: Different types of industries like Manufacturing, Tourism etc. along the proposed corridor will be facilitated in their business operation and reachability. <p>(xxvii) Employment potential: 800 (Including Permanent and Temporary)</p> <p>(xxviii) ToR details: ToR was granted vide F. No. 10-59/2018-IA.III dated 9th October, 2018.</p> <p>(xxix) Public Hearing: 25th February, 6th March and 5th July, 2019 held at Janjgir-Champa, Bilaspur and Korba districts, respectively.</p> <p>Major issues raised by the public were relevant to compensation which was replied by the ADM that Compensation shall be provided to the affected person on basis of the prescribed rules of state government. The rates of the structure shall be decided by the PWD officials.</p> <p>(xxx) If any court case pending for violation of the environmental laws: Not applicable.</p> |
| <p>3.1.2</p> | <p>The EAC after detailed deliberations during 225th meeting held on 22nd October, 2019, observed the following:</p> <ol style="list-style-type: none"> EIA/EMP prepared for this project does not strictly follow the generic structure as per EIA Notification, 2006 as amended from time to time. For example, there is no detail of Social Impact Assessment and R&R Plan in the said EIA/EMP report. The disclosure of Consultant section in the EIA/EMP report does not declare that this particular EIA/EMP report has been prepared by the EIA Consultant. Not submitted activity wise fund provision for CER as per Ministry's OM dated 1st May, 2018. Proponent has not identified specific locations of water sources. Proponent has not submitted the detailed compliance of TOR condition no. 20. Issues raised in Public Hearing (e.g. provisions of noise barriers) are not addressed in the EIA/EMP report. |

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| <p>3.1.3</p> | <p>In view of above mentioned observations of the EAC during 225th meeting held on 22nd October, 2019, the proposal was deferred for want of following information/documents:</p> <ul style="list-style-type: none"> (i) Revised EIA/EMP following the generic structure strictly as per EIA Notification, 2006 as amended from time to time. EIA report should include the Social Impact Assessment and R&R Plan. (ii) The disclosure of Consultant section in the EIA/EMP should specifically mention that this particular EIA/EMP report has been prepared by the EIA Consultant. (iii) Submit the activities wise fund provision (calculated on slab basis) for CER as per Ministry's OM dated 1st May, 2018. (iv) Submit the details of identified specific locations of water sources along with map of SOI toposheets. (v) Submit the detailed compliance report of TOR condition no. 20. (vi) All issues raised in Public Hearing including that of provisions of noise barrier should be addressed adequately in the EIA/EMP report. |
| <p>3.2</p> | <p>Development of Industrial Model Township at Kharkhoda, Sonapat, Haryana by M/s Haryana State Industrial & Infrastructure Development Corporation Limited – Further consideration for Environmental Clearance [Proposal No. IA/HR/NCP/62795/2017] [F. No. 21-237/2017-IA.III]</p> |
| <p>3.2.1</p> | <p>The project proponent along with the EIA consultant M/s Grass Root Research & Creation India (P) Ltd., made a presentation and submitted following information before the Committee:</p> <ul style="list-style-type: none"> (i) The proposal is for development of new Industrial Model Township (IMT), Kharkhoda located at Kharkhoda, District- Sonapat, Haryana. (ii) Total area of the proposed IMT is 3,217.19 acres, which includes: Industrial area - 1267.54 Acres, Institutional - 123.35, Commercial area - 171.51 Acres, Residential area - 272.43 Acres, Public Utility / Buildings - 169.04, Green Belt - 500.14 Acres and Others: 713.18 Acres. (iii) Location: The Geographical coordinates of one side of the project sites are 28°50'3.98"N to 28°49'35.92"N and 76°58'12.05"E to 76°54'42.38"E. It is located adjacent on Kundli - Manesar - Palwal (KMP) Expressway & SH- 18. (iv) Connectivity to the site: The site has very good connectivity by road. 60 m wide internal road will connect it with KMP and SH-18. Narela Railway Station is 9.0 km in ENE direction and Indira Gandhi |

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| | <p>International Airport, New Delhi is located at approx. 35 km SSE direction of the project site.</p> <p>(vii) Water requirement: During operation phase, total water requirement is expected to be approx. 87.275 MLD. 65 MLD of water will be taken from Western Yamuna Canal of Irrigation Department.</p> <p>(iv) Wastewater: Total 63.90 MLD of wastewater will be generated.</p> <p>(v) Recycling / reuse of treated water and disposal: The wastewater will be treated in CETP. Treated waste water will be fully used for Recirculation Network, dust suppression and horticulture & green belt maintenance.</p> <p>(i) The total quantity of domestic waste has been worked out as 131 Tonnes/day at the ultimate stage of development. Biodegradable wastes will be composted at site. Recyclable wastes will be sold to recyclers, and authorized recyclers, where applicable. Buy back arrangement will be made for used batteries. Domestic solid waste will be managed as per Municipal Solid waste (Management & Handling Rule), 2000 & bio-medical wastes will be disposed as per the provisions of the Bio-medical Waste (Management & Handling) Rules, 2011.</p> <p>(ii) Rain water Harvesting: Rooftop rainwater will be provided by individual industries.</p> <p>(iii) Energy Requirement: Total connected load requirement during operation phase is 500 MW. Proposed energy saving measures would be as per order HSIIDC: IA: 2009:5533 to 49-dated 18.03.2009.</p> <p>(iv) Green belt development (20 % of construction projects and 33 % for others) – 1071.50 acres which is 33.30 % of the net planned area will be developed as green area.</p> <p>(v) Whether the project is in Critically Polluted area: No.</p> <p>(vi) If located /not located within 10 km of Eco Sensitive areas: No</p> <p>(vii) If the project involves diversion of forest land: No</p> <p>(viii) Details of water bodies, impact on drainage if any: NA</p> <p>(ix) Investment/Cost of the project is INR 4000 Crores (inclusive of Land cost & Development cost).</p> <p>(x) ToR details: TOR was granted by MoEF&CC vide its letter no. 21-237/2017-IA.III dated 23rd August, 2017.</p> |
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| | <p>(xi) Public Hearing: 8th March, 2019 at Kharkhoda. Main Issues include Employment, Royalty and Environment was the major issue raised during public hearing.</p> <p>(xii) Employment potential: 1,00,000 no.</p> <p>(xiii) Benefits of the project:</p> <ul style="list-style-type: none"> a) To promote more rapid industrialization of the country b) Infrastructural development in the State of Haryana. c) To increase national and local employment d) To attract private investment both national and foreign e) To promote the development of small industries f) To encourage more effective use of resources through the development of industrial complexes, including diversified industries of all sizes. g) To bring industries and industrial employments to rural areas h) To train labors and increase its productivity <p>(xiv) If any court case pending for violation of the environmental laws: No. Submitted undertaking in this regard.</p> |
| <p>3.2.2</p> | <p>The EAC after detailed deliberation during 222nd meeting held on 20th August, 2019, observed following:</p> <ul style="list-style-type: none"> (i) EIA/EMP was not prepared as per approved ToR. There are discrepancies in figures of total area and boundaries of the project site. Similar discrepancies were observed in EIA/EMP report. (ii) No clarity about area allocated for R&R Pockets & Land Pooling Plots/Housing. (iii) The Industrial Units to be housed within the proposed Industrial Model Township, as mentioned during presentation, varies from those provided in approved ToR of the project, which was issued on 23rd August, 2017. (iv) There are villages within the project boundaries. (v) Land use and layout of the proposed sites are not clearly mentioned. (vi) CETP of 64 MLD capacity is proposed. |
| <p>3.2.3</p> | <p>Considering above mentioned points, EAC after detailed deliberation during its 222nd meeting on 20th August, 2019, <i>deferred</i> the proposal for want of following information/clarification/documents:</p> |

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| | <ul style="list-style-type: none"> (i) EIA/EMP as per approved ToR along with clarity on project area, boundaries, industrial units to be housed within the proposed Industrial Model Township. The PP was asked to submit revised EIA/EMP accordingly. (ii) Revised land use plan and layout of the proposed site as per approved ToR and which to be mentioned in EIA/EMP report accordingly. (iii) Clarity about villages and people residing therein along with issues related to R&R and land pooling etc., be provided. |
| <p>3.2.4</p> | <p>The EAC after detailed deliberations during 225th meeting held on 22nd October, 2019, observed the following:</p> <ul style="list-style-type: none"> (i) EIA/EMP prepared for this project does not strictly follow the generic structure as per EIA Notification, 2006 as amended from time to time. For example, there is no detail of Social Impact Assessment and R&R Plan in the said EIA/EMP report. (ii) The disclosure of the consultant is not duly signed. Also, the disclosure of Consultant section in the EIA/EMP report does not declare that this particular EIA/EMP report has been prepared by the EIA Consultant. (iii) Submitted revised layout plan, however, it lacks proper planning from regional perspective. (iv) The important air quality parameters in the surrounding area of the proposed project are already above the prescribed standard. For prediction of air quality, the emission from DG set only is considered. The prediction should also include all possible emissions with respect to categories of industries planned zone wise along with area earmarked. (v) Proponent has planned to establish Marble Industries near Institutional Area, which is not acceptable. (vi) Adequate planning is lacking for selecting industries near Aabadi area. (vii) Layout plan (map) does not provide information about disposal site for Solid Waste and Hazardous Waste to be generated from the industries to be housed within the proposed Industrial Model Township. (viii) Proponent has mentioned that the landuse plan of the proposed site will be prepared later. However, it should be planned at the time of preparing EIA/EMP report and be presented before the EAC during appraisal of the project. (ix) Proponent has mentioned that out of total 87.275 MLD of water requirement, 65 MLD will be met through water from Western Yamuna |

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| | <p>Canal of Irrigation Department. Proponent has however, not mentioned about the source for getting the rest of the water to be used for this project.</p> <p>(x) Consumption of water is huge and implementation of Zero Liquid Discharge (ZLD), as claimed by proponent, is not feasible.</p> <p>(xi) Proponent has informed that no ground water will be used for the proposed project.</p> <p>(xii) Proponent has not provided details of discharge from and design of CETP to be developed for the proposed project.</p> <p>(xiii) Activities to be undertaken within the proposed Industrial Model Township should not adversely affect the water quality of Yamuna river.</p> <p>(xiv) Proponent has not established Environmental Monitoring Cell as stipulated while granting earlier Environmental Clearances to the same proponent, M/s HSIIDC Limited for development of other Industrial Parks/Areas.</p> <p>(xv) Many of the issues raised in Public Hearing are not addressed adequately in the EIA/EMP report.</p> |
| <p>3.2.5</p> | <p>In view of above mentioned observations of the EAC during 225th meeting held on 22nd October, 2019, the proposal was deferred for want of following information/documents:</p> <p>(i) EIA/EMP prepared following the generic structure strictly as per EIA Notification, 2006 as amended from time to time. EIA report should include the Social Impact Assessment and R&R Plan.</p> <p>(ii) The disclosure of Consultant section in the EIA/EMP should specifically mention that this particular EIA/EMP report has been prepared by the EIA Consultant.</p> <p>(iii) Submit the revised layout plan, to avoid the Marble Industries and other polluting industries near Institutional and Aabadi Areas.</p> <p>(iv) For prediction of air quality, all possible emissions with respect to categories of industries planned zone wise along with area earmarked should be covered.</p> <p>(v) Submit action plan for proposed mitigation measures within the premises of Industrial Model Township to bring down the air quality parameters within the prescribed limit.</p> <p>(vi) Submit layout plan (map) depicting information about disposal site for Solid Waste and Hazardous Waste to be generated from the industries to be housed within the proposed Industrial Model Township.</p> |

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| | <p>(vii) Submit the land use plan of proposed Industrial Model Township.</p> <p>(viii) Proponent has mentioned that out of total 87.275 MLD of water requirement, 65 MLD will be met through water from Western Yamuna Canal of Irrigation Department. Proponent has to provide information about the source for getting the rest of the water to be used for this project. Ground water shall not be used in any case.</p> <p>(ix) Submit the detailed design of CETP with discharge parameters for the proposed project.</p> <p>(x) Appropriate mitigation measure to be taken in respect of activities to be undertaken within the proposed Industrial Model Township so that the water quality of Yamuna river and ground water is not affected..</p> <p>(xi) Establish the Environmental Monitoring Cell as stipulated while granting earlier Environmental Clearances to the same proponent, M/s HSIIDC Limited for development of other Industrial Parks/Areas. A team of qualified Environmental Professionals should be appointed for this purpose.</p> <p>(xii) Revised EIA/EMP report to address all the issues raised in the Public Hearing.</p> <p>(xiii) Submit undertaking that compensation shall be given as per Land Acquisition, Rehabilitation and Resettlement Act (LARR), 2013 or Acts/Notifications issued by the Government of Haryana.</p> |
| 3.3 | <p>Development of Baggad Industrial Area at Village Baggad, Tehsil Bhim, District Rajsamand (Rajasthan) by M/s RIICO Limited – Further consideration for Environmental Clearance</p> <p>[Proposal No. IA/RJ/MIS/62679/2015] [F.No. 21-103/2015-IA-III]</p> |
| 3.3.1 | <p>The project proponent made a presentation and provided the following information to the Committee: -</p> <p>(i) The project involves Industrial Area Development (Baggad Industrial Area) near Village Baggad, Tehsil Bhim, District Rajsamand (Rajasthan) by M/s RIICO Limited. The project is located at 25°35'59.77"N Latitude and 73°53'53.74"E longitude.</p> <p>(ii) The total Area of the proposed project site is 102.959 ha as per revenue records. Industrial as well as Commercial plot are planned to be developed 266 nos. of plots will be developed. Area under industrial plots 61.586 ha, area under commercial plots are 3.254 ha and 21.852 ha is reserved for roads while 2.991 ha is reserved for services. Area under green buffer is 3.672 ha while area reserved for future planning 3.420 ha.</p> |

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| | <p>(iii) During construction phase, total water requirement is expected to be 15 KLD which will be met by Groundwater. 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.</p> <p>(iv) Baggad Industrial area has a total area of 102.959 ha and a total of 266 industrial plots and category B industries like Marble/granite industries, Mineral processing industries, general Engineering industries, Bulk drug formulation, secondary metallurgy processing industries and all other non-toxic metallurgical processing industries >5000 tonnes/annum (Steel/iron bar & wires making Industries) will be permitted in the proposed industrial area. No A category industries are permitted in the proposed industrial area.</p> <p>(v) Due to presence of Todgarh Roali Wildlife sanctuary located at 3.37 km from the proposed industrial area, Project Falls under Category "A" Schedule No. 7 (c) Industrial estates /Parks/ Complex/ areas, export processing Zone, Special Economic Zones (SEZs), Biotic Parks, Leather complex as per MoEFCC's EIA Notification 2006 and further Amendment (2009).</p> <p>(vi) The industries which are proposed, Mineral Grinding, Marble Processing, Engineering works, Mineral-based Industries will come-up in the proposed Industrial Area also, in addition to promoting the drug formulation unit. No Category A type of industries as per EIA Notification, 14th September, 2006 as amended on 1st December, 2009 is anticipated.</p> <p>(vii) Water requirement: Industrial zone: During operation phase, the total water requirement of Industrial zone of proposed project would be 1203 KLD excluding 530 KLD treated water. The water requirement during operation phase will be met by RIICO through ground water. Any extra requirement of water other than the quantity stated above will be arranged by the industries themselves. Expected industries to be proposed at project area viz. (Marble, granite, minerals, & engineering) which are of zero discharge, so CETP will not be proposed at site. Residential zone: Water requirement of residential zone of proposed project is 1206 KLD. Water requirement of green area (350 KLD) will be fulfilled by treated Domestic waste water (treated by STP). Separate distribution network shall be provided for recirculation of STP treated water for use in green area.</p> <p>(viii) About 300 kg/day solid waste will be generated in the project. The biodegradable waste will be processed in OWC and the non-</p> |
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biodegradable waste generated will be handed over to authorized local vendor.

- (ix) Approximately 10 to 15-kg of municipal solid waste will be generated from the construction camp and construction site. This will be collected and disposed off in a fenced pit dugout at the site and covered properly after completion of construction activity. Waste management would be the responsibility of individual industries. Individual industry will provide system for municipal solid waste collection, storage and disposal. Each industry shall have to comply with the Municipal Solid Waste Management Rules, 2000 and amendments therefore. Approximately 2000 persons will be involved during the operation phase of the project. Taking into consideration approximately 0.15- kg/person/day of municipal solid waste generation, the total municipal waste generation in the proposed industrial area will be about 300-kg/day
- (x) No Waste water will be discharge outside the RIICO premises. All units will follow the ZLD policy.
- (xi) The power requirement during construction phase shall be met through DG set and total power requirement during operation phase is around 2 MVA. The power requirement during operation phase will be met from 2 MVA Grid Sub-Station (GSS) by Ajmer Vidyut Vitaran Nigam Limited.
- (xii) Rooftop rainwater of buildings will be collected in 5 RWH tanks and sub surface barrier to recharge total 320 KLD water after filtration.
- (xiii) Parking provision for commercial and personal vehicles will be the responsibility of individual occupant.
- (xiv) **Cost of the project:** Aprox. Rs.39.37 Crore.
- (xv) **ToR details:** ToR was granted vide letter No.21-103/2015-IA.III dated 18th June, 2015.
- (xvi) **Public Hearing:** The public hearing was conducted on 17th January, 2017, Gram Panchyat Building Village Baggad, Teshil-Bhim.
- (xvii) **Employment potential:** During construction phase the requirement of labour will be 75 persons per day. Local labours will be employed from the surrounding villages. During Operational phase, there will be both Direct and Indirect employment generation. About 2000 persons will be directly employed by RIICO itself for maintenance of the industrial area, among which 500 persons will be skilled labour. Besides, it is expected that the individual industries may generate employment opportunity for approximately 10,000 persons in total.
- (xviii) **Benefits of the project:** The proposed project will help in the development of infrastructure for sitting the industrial estate with

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| | <p>commercial facilities, which will provide a total of 266 industrial plots, with different plot sizes. This infrastructure development will provide a support for the upliftment of the overall area. Hence, due to the project the overall area will get better road connectivity and other supporting infrastructure.</p> |
| 3.3.2 | <p>During deliberations in 169th meeting held on 6-7 April, 2017, the EAC noted the following:-</p> <p>(i) The proposed industrial area in a total area of 102.959 ha, would house mineral/marble based industries with the raw material obtained from Udaipur and nearby areas.</p> <p>(ii) Proposed industrial area is at a distance of 3.37 km from the boundary of Todgarh Raoli Wildlife Sanctuary, for which the necessary recommendations from the Standing Committee of NBWL and subsequent permission from the State Chief Wildlife Warden has been obtained.</p> <p>(iii) During the public hearing conducted on 17th January, 2017, issues were raised regarding pollution problems, land acquisition, employment opportunities, loss of agricultural land, drying of wells etc. None of the participants has supported the proposal.</p> <p>(iii) The project area is 17 km away from Kumbhalgarh Wildlife Sanctuary as well as Kumbhalgarh IBA. It is also one of the best protected forests remaining in the Aravalli mountains. Moreover, the project site is also 3.37 km away from Todgarh Raoli Wildlife Sanctuary. Also species listing is erroneous. <i>Agama tuberculata</i> or Kashmir Rock Agama is found in North Pakistan, India (West Himalaya, Kashmir, Punjab), Nepal (Kathmandu), Afghanistan, and China (Tibetan Plateau). None of the <i>Scincilla</i> spp. of Skink is found in India.</p> <p><i>The proposal was not taken forward, especially in view of the outcome of the public hearing, and desired that the Ministry may also suggest the course of action in such matters. Further to have correct assessment of the site specific issues, a sub-committee of the EAC shall inspect the project site, verify the relevant document/reports and furnish its report to MoEF&CC, which would be placed before the EAC for further consideration of the proposal.</i></p> |
| 3.3.3 | <p>A team of subcommittee of EAC, MoEF&CC visited the site from 25th to 27th September, 2017 and report of same is enclosed as Annexure-I.</p> |
| 3.3.4 | <p>During deliberations in 177th meeting held on 16th October, the EAC noted the following:-</p> <p>(i) There is no Abadi and village with in this project area and net land under possession of RIICO is 102.959 Ha.</p> |

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| | <ul style="list-style-type: none"> (ii) Todgarh–Raoli wildlife sanctuary is 3.37 km from proposed industrial area. The sub-committee of EAC visited the site on 25-27 September, 2017. As per the recommendation of the committee, the RIICO in consultation with the DFO, Rajsamand will develop a robust human-wildlife conflict mitigation plan with special focus on leopards, make requisite financial allocations to forest department for the same and submit to the Committee for consideration. (iii) There is no zoning in the industrial area has been made (iv) The total water demand for drinking purpose is 1203 KLD (v) No residential area proposed in the Industrial area (vi) Application for permission for using of Ground water for drinking purpose was submitted to CGWA (vii) No water intensive Industries will be allowed in this area. RIICO will not provide the water to the industries for industrial purpose. (viii) As per the suggestion of the committee RIICO will revise the planning and provide traffic circulation plan so as to avoid the traffic congestion by providing rotaries medians and service road along NH-8 for smooth merging of vehicular traffic. (ix) Submitted details about issues raised during public hearing and commitments given by RIICO about pollution issues, land acquisition, employment to local youth. (x) Provision of 1% of total compensation amount will be made for “Village Amenity Fund” to provide Financial Assistance for community welfare projects in the villages affected by new industries with a view to ensuring a linkage between the development of the local community with the process of Industrialization. (xi) Provision of 1% of total compensation amount will be made under “Skill Development Fund” for promoting training and skill among persons affected by establishment of industries on the basis of the manpower requirements of industries concerned (xii) Provision of 2% of total compensation amount will be made for creating for “External Development Fund” to be utilized for strengthening of the approach roads, street lights, construction of disposal drains outside the industrial areas, plantation in the vicinity of the area etc. |
| <p>3.3.5</p> | <p>The EAC, after detailed deliberations, deferred the proposal for want of following information regarding no clarity on water requirement details and necessary permissions and submission of document</p> |

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| | <ul style="list-style-type: none"> (i) Submission of water requirement quantity in detail for domestic and industrial use and source of water for above purpose. (ii) Copy of permission from CGWA and other concerned authority for using of ground water for drinking purpose and other water source for industrial purpose (iii) A report on detailed hydrological study which includes abstraction of ground water, water budgeting, recharging of ground water and construction of rainwater harvesting structures for augmentation of ground water levels (iv) Submission of man-animal conflict management plan in consultation with DFO Rajsamand. |
| 3.3.6 | <p>During deliberations in 182nd meeting held on 21st December, 2017 the EAC noted the following:</p> <ul style="list-style-type: none"> (i) PP informed that total first time industrial demand for water 400 KLD and recycled water available is 289 KLD. (ii) Therefore, daily fresh water requirement will be 111 KLD that will be extracted from the groundwater. (iii) Copy of permission from CGWA for withdrawal of ground water is pending for want of Consent to Establishment (CTE) from State Pollution Control Board, Rajasthan. However, State Pollution Control Board has demanded EC for issuance of CTE. (iv) Submitted brief report on hydrological study for augmentation of ground water levels. (v) Submitted Mitigation plan for conservation of leopard. |
| 3.3.7 | <p>EAC observed that detail of hydrological assessment is mandatory as the area falls within drought prone region and opportunities for harvesting rain water and recharge of groundwater are minimal. Therefore, environmental appraisal remains incomplete without proper hydrological assessment (including monthly rainfall data for last 20 years) of the region. Therefore, permission from CGWA is every much essential. Hence, EAC deferred the decision for want of permission from CGWA.</p> <p>In view of above, the EAC opined that it is an administrative issue, Ministry may take a view on the matter and may intervene to resolve this issue as mentioned in point no. (iii) above.</p> |
| 3.3.8 | <p>The proponent provided following information during 225th meeting on 22nd October, 2019:</p> |

| | <p>(i) Earlier water demand for the project was 1203.0 KLD, which was to be sourced from Bore well.</p> <p>(ii) Further RIICO's application to CGWA for NOC for withdrawal of 1203.00 KLD ground water was finally not considered, hence RIICO has revised the water demand and reduced it from 1203 KLD to 300 KLD for this project. Permission has been obtained from the Executive Engineer Public Health Engineering Department, Govt. of Rajasthan, AMET, District Rajsamand. Copy of letter dated 15.07.2019 is submitted.</p> <p>(iii) RIICO has also revised the types of industries proposed in the area and decided for not allowing Bulk drug formulation, Secondary metallurgy processing industry and other water based industries. List of industries to be proposed earlier and revised are given below:</p> <table border="1" data-bbox="379 788 1394 1048"> <thead> <tr> <th>Previous list of Major Industries</th> <th>Revised/ List of Major Industries</th> </tr> </thead> <tbody> <tr> <td>Marble/ Granite Industries</td> <td>Marble/ Granite Industries</td> </tr> <tr> <td>Mineral Processing Industries</td> <td>Mineral Processing Industries</td> </tr> <tr> <td>General Engineering Industries</td> <td>General Engineering Industries</td> </tr> <tr> <td>Bulk Drug Formulation</td> <td>Nil</td> </tr> <tr> <td>Secondary metallurgy processing Ind.</td> <td>Nil</td> </tr> </tbody> </table> | Previous list of Major Industries | Revised/ List of Major Industries | Marble/ Granite Industries | Marble/ Granite Industries | Mineral Processing Industries | Mineral Processing Industries | General Engineering Industries | General Engineering Industries | Bulk Drug Formulation | Nil | Secondary metallurgy processing Ind. | Nil |
|--------------------------------------|--|-----------------------------------|-----------------------------------|----------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-----------------------|-----|--------------------------------------|-----|
| Previous list of Major Industries | Revised/ List of Major Industries | | | | | | | | | | | | |
| Marble/ Granite Industries | Marble/ Granite Industries | | | | | | | | | | | | |
| Mineral Processing Industries | Mineral Processing Industries | | | | | | | | | | | | |
| General Engineering Industries | General Engineering Industries | | | | | | | | | | | | |
| Bulk Drug Formulation | Nil | | | | | | | | | | | | |
| Secondary metallurgy processing Ind. | Nil | | | | | | | | | | | | |
| <p>3.3.9</p> | <p>The EAC, after detailed deliberation during its 225th meeting on 22nd October, 2019, recommended the project for grant of Environmental Clearance, with the following specific conditions in addition to all standard conditions applicable for such projects:</p> <p>(i) This Environmental clearance is subject to outcome of court cases pending against the project proponent at Hon'ble Supreme Court of India / High Court.</p> <p>(ii) All the mitigation measures to reduce pollution as mentioned in EIA/EMP report shall be implemented in toto.</p> <p>(iii) Only Marble/ Granite Industries, Mineral Processing Industries and General Engineering Industries shall be permitted within the proposed Industrial Area.</p> <p>(iv) No water intensive Industries will be allowed in this area. RIICO will not provide the water to the industries for industrial purpose.</p> <p>(v) Water consumption shall not exceed 300 KLD for proposed Industrial Area.</p> <p>(vi) No ground water shall be used in any case.</p> <p>(vii) Provision shall be made to recharge the ground water and construct rainwater harvesting structures for augmentation of ground water levels.</p> | | | | | | | | | | | | |

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| | <p>(viii) M/s RIICO Limited, in consultation with the DFO, Rajasmand, and local people of the affected area, will develop a robust human-wildlife conflict mitigation plan with special focus on leopards with requisite financial allocations, duly approved by the Chief Wildlife Warden of the state, to the Forest and Wildlife Department for the same.</p> <p>(ix) Provision of 1% of total compensation amount shall be made for 'Village Amenity Fund' to provide Financial Assistance for community welfare projects in the villages affected by new industries with a view to ensuring a linkage between the development of the local community with the process of Industrialization.</p> <p>(x) Provision of 1% of total compensation amount shall be made for 'Skill Development Fund' to promote training and skill among persons affected by establishment of industries on the basis of the manpower requirements of industries concerned</p> <p>(xi) Provision of 2% of total compensation amount shall be made to create 'External Development Fund' to be utilized for strengthening of the approach roads, street lights, construction of disposal drains outside the industrial areas, plantation in the vicinity of the area etc.</p> <p>(xii) Minimum 33% of total project area shall be maintained as green belt.</p> <p>(xiii) M/s RIICO Limited shall provide road to the local people for their movement.</p> <p>(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. 78.74 Lakhs (@ 2% of project budget of Rs. 39.37 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. vermicompost 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> |
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| <p>3.4</p> | <p>Development of Urban Extension Road-II (NH-344M) from Design chainage Km 0.000 to Km 38.111. Development of link road (new NH-344P) (Km 0.000 to Km 29.600) between Bawana Industrial Area Delhi (from Km 7.750 of UER II) till bypass of NH-352A at village Barwasni, Sonipat in Haryana as spur of Urban Extension Road-II (NH-344M) in the State of Delhi/Haryana. Development of link road (new NH-344N) (Km 0.000 to Km 7.500) between Dichaon Kalan till Bahadurgarh Bypass/NH-10 in the State of Delhi/Haryana. (Total Length of Project: 75.211 Km) by M/s National Highways Authority of India - Amendment in Terms of Reference</p> <p>[Proposal No. IA/DL/MIS/104396/2019] [F. No. 10-30/2019-IA.III]</p> |
| <p>3.4.1</p> | <p>The Ministry granted TOR to the project vide letter no. 10-30/2019-IA.II dated 19th July, 2019. Through this amendment proposal, proponent has requested to remove the specific conditions point no (ii) Study to be carried out on Acoustic and light Proofing measures considering the Wildlife Institute of India Manual and other studies by the reputed institutes on the matter. The study shall be carried by the qualified professionals, scientists from any national institute having requisite experience to conduct such study.</p> <p>Proponent has mentioned that the Proposed Project Road is not passing through any Habitat Area/Zone of National Park, Wildlife Sanctuary and Biospheres Reserve etc. Further, there are no National Park, Wildlife Sanctuary and Biosphere Reserve within 10 km radius of the Alignment of the proposed Road.</p> <p>In view of above, proponent has requested for the amendment of abovementioned TOR.</p> |
| <p>3.4.2</p> | <p>The EAC after detailed deliberations during its 225th meeting held on 22nd October, 2019 recommended to accept the proposed amendment and remove the project specific condition no.(ii) from the Terms of Reference granted by this Ministry, vide letter no. 10-30/2019-IA.II dated 19th July, 2019, for above said project.</p> |
| <p>3.5</p> | <p>Development of Industrial Area at Mudigere Kaval village, Sira Taluk, Tumkur District, Karnanatka by M/s Karnataka Industrial Areas Development Board – Terms of Reference</p> <p>[Proposal No. IA/KA/NCP/117121/2019] [F. No. 21-359/2017-IA.III]</p> |
| <p>3.5.1</p> | <p>The project proponent along with the EIA consultant M/s Ramkey Environ Services Private Limited, Hyderabad, made a presentation and provided the following information before the Committee:</p> <p>(i) M/s. Karnataka Industrial Areas Development Board (KIADB) proposes to develop Sira Industrial Area at Mudigere Kaval village,</p> |

Sira Taluk, Tumkur District, Karnataka. The proposed industrial area will be developed in an integrated manner with all required infrastructure facilities like roads, electricity, water, developed plot area for setting small and medium scale industries, residential quarters for workers, offices and commercial establishments.

- (ii) The proponent applied similar proposal (no. IA/KA/NCP/64746/2017) on 13th November, 2017 and withdrawn on 16th July, 2019.
- (iii) **Location:** Site for proposed project is located at Mudigere Kaval (V), Sira (T), Tumkur (D), Karnataka. Co-ordinates of site are given in below:

| ID | Latitude | Longitude | ID | Latitude | Longitude |
|----------------|-----------------|-----------------|-----|-----------------|-----------------|
| Part -1 | | | | | |
| A1 | 13° 43' 15.5" N | 76° 53' 29.3" E | A12 | 13° 43' 38.5" N | 76° 53' 51.2" E |
| A2 | 13° 43' 07.0" N | 76° 53' 10.9" E | A13 | 13° 43' 44.3" N | 76° 53' 50.3" E |
| A3 | 13° 42' 00.8" N | 76° 53' 44.1" E | A14 | 13° 43' 37.9" N | 76° 53' 35.5" E |
| A4 | 13° 41' 48.8" N | 76° 53' 51.8" E | A15 | 13° 43' 42.6" N | 76° 53' 33.1" E |
| A5 | 13° 41' 45.3" N | 76° 53' 55.9" E | A16 | 13° 43' 46.8" N | 76° 53' 42.2" E |
| A6 | 13° 41' 58.0" N | 76° 53' 57.6" E | A17 | 13° 43' 46.6" N | 76° 53' 45.8" E |
| A7 | 13° 42' 15.2" N | 76° 54' 06.4" E | A18 | 13° 43' 52.5" N | 76° 53' 41.0" E |
| A8 | 13° 42' 37.1" N | 76° 53' 59.7" E | A19 | 13° 43' 58.4" N | 76° 53' 29.3" E |
| A9 | 13° 43' 01.4" N | 76° 54' 01.5" E | A20 | 13° 43' 45.8" N | 76° 53' 24.3" E |
| A10 | 13° 43' 05.3" N | 76° 53' 49.1" E | A21 | 13° 43' 36.2" N | 76° 53' 18.9" E |
| A11 | 13° 43' 32.0" N | 76° 53' 55.1" E | | | |
| Part -2 | | | | | |
| B1 | 13° 44' 01.1" N | 76° 53' 43.9" E | B4 | 13° 43' 53.8" N | 76° 53' 43.8" E |
| B2 | 13° 44' 00.0" N | 76° 53' 41.6" E | B5 | 13° 43' 54.7" N | 76° 53' 47.3" E |
| B3 | 13° 43' 54.1" N | 76° 53' 42.9" E | | | |

- (iv) **Land Use of the Site and around the site up to 10 km radius:** The proposed project site is mostly non fertile sand dunes, scattered grass and barren land, having an area of 815.27 Acres (329.93 Ha). At project site, industrial, residential, office & commercial establishes are planned.

a. Land use break up of proposed project site

| Land use type | Area (Ac) | Area % | Remarks |
|-----------------------------------|-----------|--------|---|
| Industrial Area | 352.16 | 43.2 | 33% of total project Area will be developed as green belt area. |
| KSSIDC | 75.14 | 9.22 | |
| Residential | 77.55 | 9.51 | |
| Commertial | 27.08 | 3.32 | |
| Amenity | 15.88 | 1.95 | |
| Utility | 24.7 | 3.03 | |
| Park/ Nala & Nala Buffer / Buffer | 82.73 | 10.1 | |

| | | |
|---------------------|---------------|--------------|
| Parking | 40.79 | 5 |
| Roads | 91.12 | 11.2 |
| Proposed Railways | 16.98 | 2.08 |
| Mini Vidhana Soudha | 11.14 | 1.37 |
| Total | 815.27 | 100.0 |

b. Land use break up of around the site up to 10 km radius

| Classes | | Area (Ac) |
|-------------------|--------------------------|-----------------|
| L-1 | L-2 | |
| Built-Up | Urban | 673.57 |
| | Rural | 42.80 |
| Agricultural Land | Cropland | 44309.51 |
| | Fallow land | 19704.88 |
| | Plantation | 14633.92 |
| Water bodies | Reservoirs/ Lakes/ Ponds | 7587.29 |
| | River/ Stream/ Canals | 939.40 |
| Forest | Deciduous | 3410.68 |
| | Scrub Forest | 4807.39 |
| Wastelands | Salt affected land | 847.04 |
| | Scrub land | 1556.66 |
| | Barren Rocky Area | 69.84 |
| Total | | 98582.98 |

- (v) The project site is well connected with all the transportation facilities from nearby places. National Highway NH-4 highway is adjacent to the site on NE side and NH-24 is on western side. The nearest village is Sira which is about 280 m (NE) and nearest town with about 3 lakhs population (as per Censes 2011) is Tumkur about 44 km (SE). Proposed Sira railway station is about 5 km (NE) and Gubbi station is about 42 km (S). The nearest airport is Bangalore airport about 100 km (SE).
- (vi) **Justification for selection of the site:** The proposed project site conformity with the sitting guidelines is given:

| Particulars | Siting guidelines | Site conformity |
|---------------|---|---|
| Location area | Sufficient land to meet the demand of greenbelt development, reuse of treated water, storing of solid waste before final disposal | Proposed site has sufficient land to meet the demand of greenbelt development, reuse of treated water, storing solid waste, etc. Land is in possession of KIADB |
| Type of land | Avoid prime agricultural land | Proposed land is non-fertile sand dunes, scattered grass |

| | | |
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| | | & barren land |
| Coastal areas | At least 500 m from high tide line | No coastal areas within 500 m of project site. |
| Estuaries | At least 200 m away from the estuary boundaries | No estuaries within 200 m of site |
| Flood plains of the riverine system | At least 500 m from flood plain or modified flood plain, or by flood control systems | No flood plain within 500 m of site |
| Transport/communications system | At least 500 m from highway and railway line | NH-4 is adjacent to site on NE side & NH-24 is on western side. It is proposed to develop green belt of 15 m along boundary of project site to further minimise impacts |
| Major settlements | At least 10 km from the project growth boundary of the settlement (3 lakh population) | No major settlement (3 lakh population) within 10 km |
| Ecologically and or otherwise sensitive area | At least 10 km (Archaeological monuments, National parks & Sanctuaries, Biosphere reserves, hill resorts, scenic areas, etc. | No Archaeological monuments, National parks & declared Sanctuaries, Biosphere reserves, Hill resorts, scenic areas are within 10 km. |
| <ul style="list-style-type: none"> ➤ Letter from Principal Conservator of Forest, Bangalore stating Tumkur Kagaladu Bird Sanctuary is not notified "Bird Sanctuary" as per official records and its distance is 9.6 km from proposed project site. ➤ Distance Certificate from Survey of India (SOI) stating shortest distance of proposed site boundary from interstate boundary is 12.3 km. | | |
| (vii) | <p>Connectivity to the site: The project site is well connected with all the transportation facilities from nearby places. National Highway NH-4 highway is adjacent to the site on NE side and NH-24 is on western side. The nearest village is Sira which is about 280 m (NE) and nearest town with about 3 lakhs population (as per Censes 2011) is Tumkur about 44 km (SE). Proposed Sira railway station is about 5 km (NE) and Gubbi station is about 42 km (S). The nearest airport is Bangalore airport about 100 km (SE).</p> | |
| (viii) | <p>Terrain, level with respect to MSL, requirement of filling if any: The proposed site is situated in plain terrain with altitude ranging from 664m to 683 m above mean sea level (MSL).</p> | |
| (ix) | <p>Water bodies, diversion if any: Seasonal natural streams are passing through the site which will not be diverted. Sufficient green belt and development zone will be provided all along the natural</p> | |

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| | streams. |
| (x) | Total water requirement and its source: The total Water requirement is about 2.26 MLD for the proposed project. The water for the project would be sourced from Kallambella tank for domestic use and Teritary treated water from Vasanthanarasapura I.A for industrial use. |
| (xi) | Waste water generation, treatment and disposal: Wastewater about 1.38 MLD is generated from industrial activities and domestic uses. Wastewater generated from industrial units will be treated by individual industries to Common Effluent Treatment Plant (CETP) inlet wastewater standard/specifications before sending to CETP. Received effluents will be treated by CETP. Domestic wastewater generated from residential, office, commercial and common facilities will be treated in Sewage Treatment Plant (STP). Treated water will be reused within project site by adopting “Zero Liquid Discharge” (ZLD) concept. |
| (xii) | Municipal solid waste generated disposal facility: Municipal waste generated will be collected, segregated, stored and treated or sent to authorize dealers. Separate area is earmarked for storage and processing of biodegradable waste. |
| (xiii) | Power requirement and source: Estimated power required is about 12.7 MWh. Power will be supplied by KIADB through Karnataka Power Transmission Corporation Limited (KPTCL). |
| (xiv) | Proposed energy saving measures: Latest solar street lighting will be provided within project site common areas. Potential for roof top solar panels will be evaluated to reduce use of DG sets. |
| (xv) | Rain Water Harvesting: Individual industries will develop their own rain water harvesting structures in their plots. Rooftop rainwater harvesting structures shall be planned for residential buildings and storm water drains & pits will be developed all along road. |
| (xvi) | Tree cutting, types, numbers, girth size etc.: Details of tree cutting: The project site consists of non-fertile sand dunes, scattered grass and barren land. No tree cutting is involved. |
| (xvii) | Green-belt Development: An area of 33% of total project area will be allotted for greenbelt development to meet MoEF&CC guidelines. A minimum area of 15 m wide will be left for greenbelt development all along boundary and one row of plants (on both sides) will be planted along internal roads within project site to minimize the environmental impacts of the site on its surroundings. |
| (xviii) | Rehabilitation involved if any: The proposed project land is |

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| | <p>acquired and fully owned by the KIADB. Hence, there is no requirement of R&R implementation in this project.</p> <p>(xix) Whether the project is in Critically Polluted area: The proposed project is not in critical polluted area (Not Applicable).</p> <p>(xx) National Park/ Wild Life Sanctuary in 10 km radius area: Not applicable</p> <p>(xxi) Eco-Sensitive Zone in 10 km radius area: None within 10 km radius, however the following reserve forests are present within 10 km radius</p> <ul style="list-style-type: none"> • Mudigere State Forest: Adjacent(W) • Chikkasandra Kavalu State Forest 4.9 km(W) . <p>(i) If the project involves diversion of forest land, extend of the forest land: No forest land and diversion is involved for the proposed project.</p> <p>(ii) Investment/Cost of the project: Capital cost of proposed project is estimated at around Rs 340.20 crores. Budget allocated for EMP is around 10% of project cost with a recurring cost of 1% per annum.</p> <p>(iii) Benefits of the project:</p> <p>Connectivity: The proposed external infrastructure linkages are expected to provide excellent connectivity of the region with the International airport, Urban centres and other economic growth centers. Overall, the proposed project is expected to enhance the economic development in the region.</p> <p>Social Development: Integrated townships consisting of commercial, institutional with requisite physical and social infrastructure facilities are definite means of social development expected from the project. Technology development is also anticipated with world class R&D centres being proposed in the project.</p> <p>Regional Development: The goods and products manufactured from the industries of proposed project would fill the demand-supply gap and hence improve the domestic markets.</p> <p>(iv) Employment potential: About 7750 people will get employment.</p> <p>(v) If any court case pending for violation of the environmental laws: Not applicable.</p> <p>(vi) Undertaking: Proponent has submitted an undertaking that no construction activity has been carried out within the proposed project site.</p> |
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| <p>3.5.2</p> | <p>The EAC after detailed deliberations during 225th meeting held on 22nd October, 2019, observed the following:</p> <ul style="list-style-type: none"> (i) Proponent has not obtained the permission of competent authority to use water from Kallembella tank for domestic use and Tertiary treated water from Vasanthanarasapura Industrial Area for industrial use. (ii) Within 10 km radius of the proposed project site, important downstream waterbodies are located in all the directions of proposed project site. Sira Lake is very closely situated in eastern side of the proposed project site. Other downstream water bodies are Chikkasandra Tank (western site), Kallambella Lake (southern side), Lakshisagar Lake (eastern side) and Kaggaladu Lake (northern side). (iii) In view of the presence of large waterbodies around downstream of project in all directions, project site is highly unsuitable for establishing polluting industries like chemical/fertilise, synthetic fibres, pulp & paper industries etc. and category A industries as per EIA Notification, 2006 as amended from time to time. (iv) If no category A industry is to be established within the proposed Industrial Area, it would be a category B project, which could be appraised by SEIAA at state level. In that case, proponent has to approach SEIAA, Karnataka. (v) Chikkasandra Kavalu State Forest is located at the distance of 4.9 km. Eco-Sensitive Zone related provisions are applicable only for National Park and Wildlife Sanctuaries. So, General Conditions as per EIA Notification, 2006 are not applicable in this case. |
| <p>3.5.3</p> | <p>In view of above mentioned observations, EAC during its during 225th meeting held on 22nd October, 2019, asked proponent to remove polluting industries like chemical/fertilise, synthetic fibres, pulp & paper industries etc. as well as all category 'A' industry as per EIA Notification, 2006 and then submit the proposal to SEIAA, Karnataka as per provisions of the EIA Notification, 2006 as amended from time to time. The EAC has directed the proponent to withdraw this proposal from PARIVESH Ministry's web portal for Environmental Clearance.</p> |
| <p>3.6</p> | <p>Development of Kosalanagaram Industrial Park at near Kosalanagaram Village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh by M/s Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC) - Terms of Reference</p> <p>[Proposal No. IA/AP/NCP/121081/2019] [F. No. 23-76/2019-IA.III]</p> |

3.6.1

The project proponent along with the EIA consultant M/s L&T Infrastructure Engineering Limited, Hyderabad, made a presentation and provided the following information before the Committee:

- (i) The Economic Development Board (EDB) had identified Five Focus Sectors in Chittoor District as ideal investment destination to investors namely Automobile and Auto Components, Heavy and Light Engineering, Agro and Food Processing, Electrical and IT, Textile and Apparels with the expected Sector wise Gross District Domestic Product (GDDP) of ₹34,742 crore.

In line with the identified Focus sectors of Chittoor District, APIIC propose to develop Kosalanagaram Industrial Park in an area of 2300 acres (930.7 ha) on Work, Live and Learn concept focusing on Automobile and Auto Components & Engineering sectors. The proposed project will pave way for rapid consolidation of industrialization in Chittoor District of Andhra Pradesh.

The proposed industrial park at Kosalanagaram Industrial Park is proposed in an area of park 2300 acres (930.7 Ha). The Proposed park comprising of industrial area along with green/open areas, amenities and utility space, technical and commercial infrastructure to accommodate training centre, commercial buildings like bank and ATMs, offices, traders, shopping etc. and residential zone.

The conceptual master plan is prepared and following is land use proposed in the total area:

| S. No. | Type | Area in Ac. | % |
|--------|-------------------------|-------------|--------|
| (i) | Amenities | 56.76 | 2.47 |
| (ii) | Utilities | 93.6 | 4.07 |
| (iii) | Commercial | 105.87 | 4.60 |
| (iv) | Logistics | 67.6 | 2.94 |
| (v) | Residential | 87.63 | 3.81 |
| (vi) | Bulk Industrial Plots | 286.5 | 12.46 |
| (vii) | Other Industrial Plots | 1019.11 | 44.31 |
| (vii) | MSME | 64.91 | 2.87 |
| (ix) | Proposed Retention Pond | 22.59 | 0.98 |
| (x) | Roads Hatch | 179.54 | 7.81 |
| (xi) | Green Space | 116.24 | 5.05 |
| (xii) | Green Belt | 180.3 | 7.84 |
| (xii) | Drains | 18.35 | 0.80 |
| | Grand Total | 2300 | 100.00 |

- (ii) **Location:** Project site is located in Kosalanagaram, Sriharipuram

and Maharajapuram Villages of Vijayapuram Mandal, Chittoor District, Andhra Pradesh.

- (iii) **Land Use of the Site and around the site up to 10 km radius:** Majority of the land is dense scrub to open scrub lands followed by Mango plantation. No Settlements and Waterbodies are located within the site. The existing land use of the project site is given below;

| Classes | Area (Ha) | Area(acres) | % of Area |
|------------------------|--------------|----------------|-----------|
| Agriculture-Plantation | 45.4 | 112.21 | 4.88% |
| Scrub Land | 885.3 | 2187.79 | 95.12% |
| | 930.7 | 2300.00 | 100.00% |

The surrounding area up to 10.0 km radius land use comprises mostly Scrub land, Agriculture-Crop Land, Forest-Deciduous, Agricultural Plantation and Waterbodies. The existing land use of study area i.e., 10 km radius from project site is given below

| Classes | Area(acres) | % of Area |
|--------------------------------------|------------------|----------------|
| Scrub Land | 53527.73 | 37.79% |
| Agriculture-Cropland | 50226.34 | 35.46% |
| Forest-Deciduous | 14618.67 | 10.32% |
| Agriculture-Plantation | 10049.44 | 7.09% |
| Waterbodies-Reservoirs, Lakes, Ponds | 7915.58 | 5.59% |
| Waterbodies-River, Streams | 2407.51 | 1.70% |
| Built-up-Rural | 2147.51 | 1.52% |
| Rocky Area | 415.46 | 0.29% |
| Salt Affected Area | 188.88 | 0.13% |
| Built-up-Mining | 129.18 | 0.09% |
| Sandy Area | 21.65 | 0.02% |
| Total | 141647.94 | 100.00% |

- (iv) **Justification for selection of the site:** The Kosalanagaram I.P is uniquely positioned among all other industrial parks being conceived under two states of Andhra Pradesh and Tamil Nadu. Its location provides an advantage of being near to the CBIC and VCIC. This offers the IP a distinct potential thereby being positioned as an attractive investment destination.

The Kosalanagaram I.P thus has several advantages as listed below:

- Good existing regional connectivity
- Amicable State Policies
- Proximity to an existing Port

- Availability of water for Industrial development
- Linkage to Supply chains.
- Visionary government with Regulatory Scenario and Policies for manufacturing Industry.
- Dedicated power supply by Government of AP
- Closer access to growing trade markets of Chennai

Some of the important features of the Site making it suitable for industrial development are presented.

The project site is strategically placed in terms of connectivity to the hinterland markets.

- Road Connectivity: The project site is strategically placed in terms of connectivity to National Highway (NH). Chennai - Tiruttani Highway - NH 716 is located ~ 2.3 km south of the site.
- Railway Station: The nearest railway station is Tiruttani at a distance ~15 km SW from the site. Arakkonam R.S (18.3 km, SSW) and Tiruvangadu (Chinnammampet) (15.3km, S) in Tamil nadu.
- Seaport: The nearest port to the proposed industrial area is Kattupalli Port (~61 km), Kamarajar Port (Ennore) (~60 km) and Chennai Port (~60 km) in the East and Krishnapatnam Port is at a distance of ~115 km in the Northeast direction.
- Airport Connectivity: The nearest airport is Chennai International Airport at ~50 km in the South East direction, Renigunta Airport is at a distance of ~43.5 km in the Northwest direction.

(v) Power Supply Source: Neares 132kV Substation is at Balagurrappakandriga, Near Nagari (~21 km).

(vi) The site meets the requirement of all critical factors that are important for success of development of an industrial project in the state and could be a pre-eminent location. The site meets the requirement of all critical factors that are important for success of development of Industrial area in the state and could be a pre-eminent location. This offers the Industrial park a distinct potential thereby being positioned as an attractive investment destination.

(vii) **Proposed development:** The Proposed Kosalanagaram Industrial Park comprising of industrial area along with green/open areas, amenities and utility space, technical and commercial infrastructure to accommodate training centre, commercial buildings like bank and ATMs, offices, traders, shopping etc. and residential zone.

Focus Sectors for Investment envisaged in the proposed Industrial Park:

| S. No | Target sector list |
|-------|--|
| 1. | Automobile and Auto Components |
| 2. | Engineering which includes Heavy Engineering Goods, Light Engineering & Metal/Metals Forming |
| 3. | MSME |

Utilities are planned and zoned across the project site. It will include water supply system, sewage network and wastewater treatment facility, waste management facilities, power sub-station and distribution network, fire station. Based on the requirement, these facilities are spread across the project site. Logistic hub will include warehousing, storage facility, container terminal, truck parking facility, workshops, weigh bridge, etc.

For residential zone, housing and allied infrastructure like educational facility, health care facility, recreational facilities, playgrounds and community facilities, etc. are proposed.

(viii) **Total water requirement and its source:** Gross water demand for Kosalanagaram I.P is ~6.0 MLD, by considering of 2.8 MLD of treated wastewater for reuse/recycle into the system, net fresh water demand is 3.2 MLD. Water requirement shall be met from Satya Sai Ganga Canal (TGP) located at~21 km, NE. WTP shall be built in modular approach based on the area development and treatment demand.

(ix) **Water bodies, diversion if any:** Natural drains of lower order are observed in the proposed site. Adequate Storm water drainage system along with Rainwater Harvesting structures will be provided to ensure that drainage pattern of the area is maintained

Adequate landscaped green spaces/buffers were proposed near water bodies.

(x) **Waste water generation, treatment and disposal:** Sewage and industrial effluent from industrial areas will be combined and treated in CETP of 3.5 MLD capacity, CETP will be developed in phases based on the industrial demand. Sewage from residential area will be treated in 0.5 MLD capacity of STP.

(xi) **Recycling / reuse of treated water and disposal:** During operation phase, gross water demand is ~6.0 MLD, by considering of 2.8 MLD



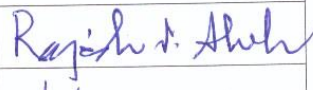
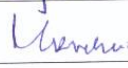


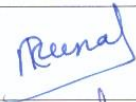
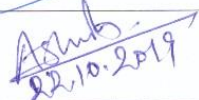
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| | <p>of treated wastewater for reuse/recycle into the system, net fresh water demand is 3.2 MLD. Water requirement shall be met from Satya Sai Ganga Canal (TGP) located at ~22 km, NE.</p> |
| (xii) | <p>Municipal solid waste generated disposal facility: Once the Kosalanagaram I.P is completely operational, total municipal solid waste generation is estimated as 11.6 TPD. The generated waste will comprise of Biodegradable waste, recyclables and inert waste. Integrated solid waste management facility is proposed for handling of MSW generated.</p> <p>Industrial solid waste is estimated as 51.7 TPD which includes 15.5 TPD of hazardous waste and 36.2 TPD of non-hazardous waste. It has been estimated that about 1.2 tonnes of sludge will be generated daily (@300kg/MLD) from the STP and CETP of Kosalanagaram I.P. Hazardous waste shall be disposed by individual industry to nearby TSDF located at Nellore District at a distance 102 km from project site.</p> |
| (xiii) | <p>Hazardous Waste Management: Industries shall follow Hazardous and Other Waste (Management and Transboundary Movement) and amendment thereof, 2016.</p> |
| (xiv) | <p>Terrain, level with respect to MSL, requirement of filling if any: Most of the site area has undulating in terrain and flat slopes. Slope terrain with levels varying from 73 m to 383m. Mostly Cut and fill quantities will be managed within in the site. However, excess fill materials if any will be sourced from approved quarry and details will be provided in the EIA report.</p> |
| (xv) | <p>Power requirement and its source: The estimated power demand for Kosalanagaram I.P is approximately 57.7 MVA. The power will be sourced from nearest 132kV substation located at Balagurrappakandriga, near Nagari (~21 km) from the project site.</p> |
| (xvi) | <p>Tree cutting, types, numbers, girth size etc.: Details of tree cutting: Majority of the land is dense scrub to open scrub lands followed by Mango plantation. Common trees in the project site include <i>Azadirachta indica</i> (Neem), <i>Ficus benghalensis</i> (Banyan), <i>Cocos nucifera</i> (Coconut), <i>Tectona grandis</i> (Teak) & <i>Wrightia tinctorial</i>.</p> |
| (xvii) | <p>Rehabilitation involved if any: Project site is devoid of any settlements. No rehabilitation is envisaged.</p> |
| (xviii) | <p>Whether the project is in Critically Polluted area: No.</p> |
| (xix) | <p>National Park/ Wild Life Sanctuary in 10 km radius area: No.</p> |
| (xx) | <p>Eco-Sensitive Zone in 10 km radius area: No.</p> |

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| | <p>(xxi) If the project involves diversion of forest land, extend of the forest land: No.</p> <p>(xxii) Investment/Cost of the project: Estimated project cost for infrastructure development is Rs.350 Crores.</p> <p>(xxiii) Benefits of the project: Proposed Kosalanagaram Industrial Park is likely to generate direct employment of about ~17000 persons and ~25500 persons of indirect employment. opening up employment opportunities for the youth in the catchment region.</p> <ul style="list-style-type: none"> • The proposed project is estimated to bring investment of Rs. 15000 to 20000 Crores • Employment opportunities to the local people for skilled, semi-skilled and unskilled work force during the construction and operation phases. • As a part of the Corporate Environment Responsibility (CER) initiatives, it is envisaged to create better and quality Education, Health, Hygiene and Sanitation, Empowerment and Livelihoods and Community Development Initiatives. • The proposed project shall further act as a catalyst to industrialization and urbanization of the region. • Overall economic growth of Chittoor District, in particular and State of Andhra Pradesh in general. <p>(xxiv) Employment potential: The total employment generation due to the proposed project is expected to generate direct employment of about ~17000 persons and ~25500 persons of indirect employment.</p> <p>(xxv) If any court case pending for violation of the environmental laws: nil.</p> <p>(xxvi) Proponent has mentioned that no construction activity under the proposed development has been taken up.</p> |
| <p>3.6.2</p> | <p>The EAC after detailed deliberations during 225th meeting on 22nd October, 2019, observed the following:</p> <p>(i) Kosalnagaram Irrigation Tank is located within 1 km distance of the proposed project site.</p> <p>(ii) No forest or wildlife issues are involved with this project.</p> <p>(iii) Proponent should avoid any coal based operation in the proposed Industrial Park.</p> <p>(iv) It is proposed to establish Metals/metal forming (Metallurgical) industries as Cateogry A and B industries as per EIA Notification, 2006.</p> |

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| | <ul style="list-style-type: none"> (v) Metallurgical industries have adverse impact on Mango trees. The SO₂ emitted from coal burning by industries to be established within the proposed Industrial Park will be harmful for Mango flowering. (vi) Effective Solid Waste Management will be required. (vii) Biodiversity Conservation Plan will also be required. (viii) It is not clear whether Reserved Forest or part of it falls within the premises of proposed Industrial Park. (ix) Postal address mentioned at Form-1 is the old one and new address should be updated online. |
| <p>3.6.3</p> | <p>The EAC after detailed deliberations during 225th meeting on 22nd October, 2019, recommended the project for grant of Terms of Reference (ToR), and for preparation of EIA/EMP report with public consultations subject to compliance of all conditions as notified in the standard ToR applicable for such projects and specific conditions, as mentioned below:</p> <ul style="list-style-type: none"> (i) Proponent shall ensure the conservation and development of Kosalnagaram Irrigation Tank and other water bodies in the surrounding areas. (ii) Proponent shall not do any coal-based operation. Instead, possibilities to be explored for gas/electricity-based operations. Option to utilise solar power and wind energy should also be worked out. (iii) Only secondary Metals/metal forming industries shall be established within the proposed Industrial Park. No metal casting shall be done in any case. (iv) Proponent shall ensure that there is no adverse impact of emissions from secondary Metallurgical industries on Mango trees especially during flowering period. (v) Proponent shall establish captive TSDf to ensure the effective Solid Waste Management. (vi) Biodiversity Conservation Plan shall be prepared in consultation with the State Forest Department. (vii) Submit a certificate from local DFO that no forest land is involved in the proposed Industrial Park. (viii) The activities and budget earmarked for Corporate Environmental Responsibility (CER) shall be as per ministry's O.M No 22-65/2017-IA.III dated 01.05.2018 and the action plan on the activities proposed under CER shall be submitted at the time of appraisal of the project included in the EIA/EMP Report. |

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| | <p>(ix) The PP shall not use groundwater without obtaining approval from CGWA/SGWA as the case may be. The project proponent shall obtain necessary permission from Competent Authority to use surface water from TGP Canal.</p> <p>(x) The Action Plan on the compliance of the recommendations of the CAG as per Ministry's Circular No. J-11013/71/2016-IA.I (M) dated 25.10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.</p> |
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List of the Members attended 225th meeting of Expert Appraisal Committee for Projects related to Infrastructure Development, Industrial Estate and Miscellaneous projects held on 22nd October, 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, Navjeevan, Ahmedabad - 380 014 (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, 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 | |
| 11 | Dr. Anuradha Shukla, Central Road Research Institute (CRRI), Mathura Road, New Delhi | Member | |
| 12 | Shri R. Debroy, Member (EAC), 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 |  |