

Minutes of 182nd 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 held on 21st December, 2017 at Indira Paryavaran Bhawan, Ministry of Environment, Forest and Climate Change, Jor Bagh Road, New Delhi.

- 1. Opening remarks by the Chairman**
- 2. Confirmation of the minutes of the 180th meeting held on 29th November, 2017 at New Delhi**
- 3. Consideration of Proposals**

3.1	Development Zaheerabad National Investment and Manufacturing Zone (NIMZ) by Telangana State Industrial Infrastructure corporation Limited(TSIIC) in Sangareddy District of Telangana–Terms of Reference [IA/TG/NCP/71421/2017] [F.No.21-370/2017-IA.III]
3.1.1	<p>The project proponent made a presentation along with EIA Consultant L&T infrastructure limited ,Hyderabad, Telangana before EAC in its meeting held on 21st December 2017 and provided the following information to the Committee:</p> <ul style="list-style-type: none"> (i) Development of Zaheerabad National Investment and Manufacturing Zone (NIMZ) in Nyalkal and Jharasangam Mandals of Sangareddy District, Telangana by M/s Telangana State Industrial Infrastructure Corporation Limited (TSIIC). (ii) The project is proposed in area of ~12,635 acres (~5,113 ha) in pursuit of National Manufacturing Policy of Department of Industrial Policy & Promotion (DIPP), Government of India. DIPP, Ministry of Commerce and Industry, Government of India has accorded Final Approval for Zaheerabad NIMZ on 22nd January, 2016. (iii) No forest land is involved in this project. (iv) The site is mostly comprised of barren and vacant lands. Few pockets of farmlands (agricultural fallow) are also located within the site. (v) Total water (one time) requirement for the proposed development is 110 MLD and 2.0 ML of fire water demand. Considering recycling of about 53 MLD into the system, net fresh water requirement is 57 MLD. The fresh water in the order of 57 MLD will be sourced from the Singur reservoir located at 13 km. Government of Telangana State proposes to allocate up to 10% of Singur’s Water for NIMZs which is in line with the existing industrial water supply policy of the state. (vi) The estimated wastewater generated from NIMZ will be 41 MLD of industrial wastewater and 24 MLD of sewage. Individual industries will treat upto primary level/CETP inlet standards and Common Effluent Treatment Plant (CETP) of 41 MLD capacity and Sewage Treatment Plant (STP) of 24 MLD capacity will treat up to tertiary

level. Treated wastewater will be reused in the system and Zero liquid discharge will be adopted.

- (vii) Total **municipal solid waste** generation is estimated at 102 TPD for NIMZ which includes both biodegradable and Non-bio Degradable/Recyclable waste. Industrial waste is estimated to be 162 TPD which includes both non-hazardous and hazardous wastes. Wastes generated shall be segregated into industrial (hazardous & non-hazardous) and MSW (bio-degradable, recyclable and inert wastes).
- (viii) The Environmental Management Plan will be proposed for the park envisages a comprehensive waste management system comprising collection & segregation, reuse/recycling, temporary storage and disposal. A Solid Waste Treatment facility at NIMZ or use of existing Solid Waste Management facility is being explored.
- (ix) The overall power load demand is estimated as 551 MVA and proposed to have feeder mains from the nearest TSTRANSCO's 400/220kV substation for uninterrupted power supply (nearest 220/132 kV substation located at Sadasivpet and 400kV substation (SS) at Shankarapally).
- (x) NIMZ is planned with water recycling, waste management, rainwater harvesting, use of non-renewable energy like solar powered street lights, etc. for efficient use of resources.
- (xi) Sufficient parking Facilities are considered in the land use/Master Plans of NIMZ.
- (xii) **Water Requirement:**
 - (a) Construction phase: 1MLD water will be sourced from Singur reservoir or authorised water suppliers.
 - (b) Operation phase: Total water (one time) requirement for the proposed development is 110 MLD and 2.0 ML of fire water demand. Considering recycling of about 53 MLD into the system, net fresh water requirement is 57 MLD. The fresh water in the order of 57 MLD will be sourced from the Singur reservoir located at 13 km.
- (xiii) It is not located within 10 km of any Eco Sensitive areas. There are following other features are observed within 10 km radius:

Reserve Forests (RF)	
Shamshalapur RF (TS)	Adjacent, North
Rajola RF	1.1 km, West
Kalbawal RF	Adjacent, West
Sahapur RF (TS)	1.5 km, North
Godepalli RF (KA)	2.8 km, West
Didgi RF (TS)	2.8 km, South
Digwal RF (TS)	4.7 km, South East
Zahirabad RF (TS)	4.9 km, South
Chitta RF (KA)	6.1 km, West
Tadapalli RF (KA)	7 km, South East
Honnadi RF (KA)	9.5 km, South East
Hadhuri RF	Adjacent, South
Badripur RF	0.1 km, South East

	<p>(xiv) Government of Telangana State proposes to allocate up to 10% of Singur's Water for NIMZs which is in line with the existing industrial water supply policy of the State. Firm commitment letter will be submitted along with EIA report.</p> <p>(xv) The water bodies observed are MadhuraNadi, 0.2 km, S and Narinja Reservoir, 1.5 km, S. Also Telangana – Karnataka State Boundary adjacent to project site.</p> <p>(xvi) Investment/Cost: The total cost of the project is Rs. 4,704.90 crores. The details are as below:</p> <p>(a) Preliminary Cost estimate for Internal Infrastructure Development Rs. 4,500 Cr.</p> <p>(b) Cost for external linkages is estimated at Rs. 6,100 Cr. (including upgradation of NH-65 from Zaheerabad to last mile connectivity to western ports including JNPT).</p> <p>(xvii) Employment potential: Direct and indirect employment of about 2.44 lakhs will be generated during construction and during operation phases.</p> <p>(xviii) Benefits of the project:</p> <p>(a) The proposed NIMZ is estimated to bring around Rs. 37,740 crores of total investments by manufacturing industries at the ultimate phase with Rs. 96,778 crores of estimated industrial output by 2040.</p> <p>(b) Proposed NIMZ is likely to generate direct and indirect employment potential of about 2.44 lakhs respectively, thereby opening up employment opportunities for the youth in the catchment region.</p> <p>(c) Employment opportunities to the local people for skilled, semi-skilled and unskilled work force during the construction and operation phases.</p> <p>(d) As a part of the Corporate Social Responsibility (CSR) initiatives, it is envisaged to create better and quality Education, Health, Hygiene and Sanitation, Empowerment and Livelihoods and Community Development Initiatives.</p> <p>(e) The proposed project shall further act as a catalyst to industrialization and urbanization of the region.</p> <p>(f) There will be improvement in living standards. General welfare will improve in the area as per capita income will go up in the post project period.</p> <p>(g) Overall economic growth of Sangareddy District, in particular and State of Telangana and Nation in general.</p>
<p>3.1.2</p>	<p>After detailed deliberation during 180th meeting held on 21st December, 2017, EAC deferred the proposal for want of following information:</p> <p>(i) Latest Toposheet map (1:50,000 scale) (on A0 size paper) showing reserve forest boundaries and the proposed industrial area and 10 km radius of proposed project site.</p> <p>(ii) Detailed land use plan for core (project site) and buffer (10 km radius around project site) zones.</p>

	<ul style="list-style-type: none"> (iii) Submit the details about proper criteria followed for selection of proposed site out of three alternate sites, as the proposed site is having 13 reserve Forests around it. (iv) Details of availability of water quantity from different sources, i.e., Singur reservoir and authorised water suppliers as mentioned by the Proponent. (v) Detailed catchment area plan of the proposed project site along with the Singur reservoir. (vi) Detailed information about types of industries/activities proposed along with the use of raw materials/chemicals and processing details for precise assessment of impact on environment. (vii) Detailed industrial estate/SEZ layout plan showing all industrial sectors and amenities like road, storm water drains, parking, CETP, STP, solid waste disposal facilities and plantation/green belt etc. (viii) Detailed justification for water requirement of 110 MLD for industrial sectors wise, non-processing area as well as common utilities and greenbelt.
<p>3.2</p>	<p>Development of Baggad Industrial Area near Village Baggad, Tehsil Bhim, District Rajsamand (Rajasthan) by M/s RIICO Limited – Further consideration for Environmental Clearance – [IA/RJ/MIS/62679/2015] [F.No.21-103/2015-IA-III]</p>
<p>3.2.1</p>	<p>The project proponent made a presentation and provided the following information to the Committee:-</p> <ul style="list-style-type: none"> (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 Lat. and 73°53'53.74"E longitude. (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. (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. (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.

- (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).
- (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.
- (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.
- (viii) About 300 kg/day solid waste will be generated in the project. The biodegradable waste will be processed in OWC and the non-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

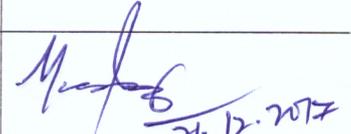
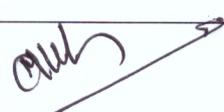
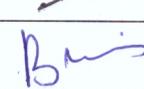
	<p>(x) No Waste water will be discharge outside the RIICO premises. All units will follow the ZLD policy.</p> <p>(xi) The power requirement during construction phase shall be met through DG set and total power requirement during operation phase is around 2 MVA. The power requirement during operation phase will be met from 2 MVA Grid Sub-Station (GSS) by Ajmer Vidyut Vitaran Nigam Limited.</p> <p>(xii) Rooftop rainwater of buildings will be collected in 5 RWH tanks and sub surface barrier to recharge total 320 KLD water after filtration.</p> <p>(xiii) Parking provision for commercial and personal vehicles will be the responsibility of individual occupant.</p> <p>(xiv) Cost of the project: Aprox Rs.3937-Lakhs.</p> <p>(xv) ToR details: ToR was granted vide letter No.21-103/2015-IA.III dated 18thJune, 2015.</p> <p>(xvi) Public Hearing: The public hearing was conducted on 17th January, 2017, Gram Panchyat Building Village Baggad, Teshil-Bhim.</p> <p>(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.</p> <p>(xviii) Benefits of the project: The proposed project will help in the development of infrastructure for sitting the industrial estate with 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>
<p>3.2.2</p>	<p>During deliberations in 169th meeting held on 6-7 April, 2017, the EAC noted the following:-</p> <p>(i) The proposed industrial area (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>

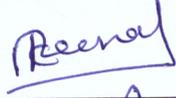
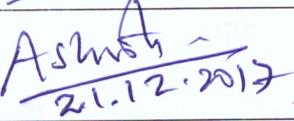
	<p>(iii) During the public hearing conducted on 17th January, 2017, issues were raised regarding pollution problems, land acquisition, employment opportunities, loss of agricultural land, drying of wells etc. None of the participants has supported the proposal.</p> <p>(iii) The project area is 17 km 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>
3.2.3	<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>
3.2.4	<p>During deliberations in 177th meeting held on 16th October, the EAC noted the following:-</p> <ul style="list-style-type: none"> (i) There is no Abadi and village with in this project area and net land under possession of RIICO is 102.959 Ha. (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.

	<p>(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.</p> <p>(ix) Submitted details about issues raised during public hearing and commitments given by RIICO about pollution issues, land acquisition, employment to local youth.</p> <p>(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.</p> <p>(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</p> <p>(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>
<p>3.2.5</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> <p>(i) Submission of water requirement quantity in detail for domestic and industrial use and source of water for above purpose.</p> <p>(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</p> <p>(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</p> <p>(iv) Submission of man-animal conflict management plan in consultation with DFO Rajsamand.</p>
<p>3.2.6</p>	<p>During deliberations in 182nd meeting held on 21st December, 2017 the EAC noted the following:</p> <p>(i) PP informed that first time industrial water demand will be a total of 400 KLD and recycled water available will be 289 KLD.</p> <p>(ii) Therefore, daily fresh water requirement will be 111 KLD that will be extracted from the groundwater.</p>

	<p>(iii) PP informed that permission from CGWA for withdrawal of ground water is pending for want of Consent to Establishment (CTE) from State Pollution Control Board, Rajasthan. It was further informed by PP that State Pollution Control Board has demanded EC for issue of CTE.</p> <p>(iv) Submitted brief report on hydrological study for augmentation of ground water levels.</p> <p>(v) Submitted Mitigation plan for conservation of leopard.</p>
3.2.7	<p>EAC observed that details 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 as well as ground water table data for last 20 years) of the region. Therefore, permission from CGWA is every much essential who considers these aspects while giving permission. Hence, EAC deferred the decision for want of permission from CGWA.</p> <p>As informed by PP regarding matter of CGWA demanding CTE from State Pollution Control Board, the Ministry may take up the matter with CGWA as withdrawal of groundwater is not related to CTE by State Pollution Control Board. CTE is dealt for the purpose of discharge of effluents into the environmental under the Water (Prevention and Control of Pollution) Act, 1974.</p>
3.3	<p>Discussion on Standardization of Environmental Clearance and CRZ Clearance conditions of Industrial estate/parks/complexes/areas, Export processing Zones, Special Economic Zones, Biotech Parks, Leather complexes and National Highways projects.</p>
3.3.1	<p>After detailed deliberation, the draft standard conditions related to Environmental and CRZ Clearance conditions were recommended by the EAC subject to incorporating suggestions from the members as well as officers from the Regional Offices of the Ministry.</p>

List of the Members attended 182nd meeting of Expert Appraisal Committee for Projects related to Infrastructure Development, Industrial Estate and Miscellaneous projects held on 21st December 2017 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	Absent
4.	Shri T.P Singh, Advisor, MEITY, New Delhi	Member	Absent
5.	Dr. N.K. Verma, Former AD, CPCB, New Delhi	Member	
6.	Dr. Asha Ashok Juwarkar, Former Chief Scientist and Head, NEERI, Nagpur	Member	Absent
7.	Dr. Anil Kumar Singh, IFS (Retd), Ex PCCF Assam, Tower F, Float No. 103 Grand Ajnara Heritage, Sector 74, Noida, UP	Member	
8.	Dr. Mohan Singh Panwar, Associate Professor, Garhwal University, Uttarakhand.	Member	 21.12.2017
9.	Shri Narendra Surana, Managing Director, Bhagyanagar India Limited and Surana Telecom. and Power Limited, Hyderabad	Member	Absent
10.	Shri Prabhakar Singh, Special DG, CPWD, Delhi Region, Nirman Bhawan, New Delhi (Building Construction Sector)	Member	 21.12.2017
11.	Dr. Anuradha Shukla, Central Road Research Institute (CRRRI), Mathura Road, New Delhi	Member	Absent
12.	Dr. D. Chakraborty, Scientist MoWR, RD & GR, New Delhi	Member	Absent
13.	Shri N.K. Gupta, Member (EAC), Scientist E & In-charge (ESS), Central Pollution Control Board,	Member	
14.	Smt. Bindu Manghat, Director Survey of India New Delhi	Member	

SI. No.	Name of the EAC member	Role/Designation	Signature
15.	Shri Raghu Kumar Kodali, Director/Scientist-F, IA-III Division, MoEF&CC	Member Secretary (Infra-1 EAC)	
16.	Dr. Ashish Kumar, Joint Director, Ministry of Environment, Forest and Climate Change,	Special invitee	 21.12.2017