215<sup>th</sup> meeting of Expert Appraisal Committee for Projects related to Infrastructure Development, Industrial estate/parks/complexes/areas, Export Processing Zones, Special Economic Zones, Biotech Parks, Leather Complexes and National Highways projects to be held on 20<sup>th</sup> May, 2019

- 1. Opening remarks of the Chairman
- 2. Confirmation of the minutes of the 214<sup>th</sup> meeting held on 26<sup>th</sup> April, 2019 at Indira Paryavaran Bhawan, JorBagh Road, New Delhi
- 3. Consideration of Proposals:
- 3.1 Establishment of Industrial Estate for Synthetic Organic Chemical manufacturing units and Cogeneration Power Plant - 30 MW at Kothapatnam village, Kota mandal and East Kanupuru village, Chillakur mandal, SPSR Nellore district, Andhra Pradesh and establishment of Desalination Plant (45 MLD) at Thamminapatnam village, Chillakur mandal, SPSR Nellore district by M/s Krishnapatnam Infratech limited - Navayuga Pharma city –**Terms of Reference** [Proposal No. IA/AP/NCP/102923/2019] [F. No. 21-27/2019-IA.III] 3.1.1 The project proponent along with the EIA consultant M/s Team Labs and Consultants, Hyderabad, made a presentation and provided the following information to the Committee: (i) The proposal Establishment of industrial Estate for Synthetic Organic Chemical manufacturing units and Cogeneration Power Plant - 30 MW at Kothapatnam village, Kota mandal and East Kanupuru village, Chillakur mandal, SPSR Nellore district, Andhra Pradesh and establishment of Desalination Plant at Thamminapatnam village, Chillakur mandal, SPSR Nellore district (ii) **Location:** The location of Industrial Estate is Kothapatnam village, Kota mandal and East Kanupuru village, Chillakur mandal, SPSR Nellore district, Andhra Pradesh. The location of proposed desalination plant is Thamminapatnam village, Chillakur mandal, SPSR Nellore district, Andhra Pradesh. (iii) Land Use: Land use pattern is given below: Description Area (in acres) Area (in ha) Plotted Area 894.9 362.15 Roads 135.7 54.92 Green Belt 139.43 56.43 Solvent recovery system 8 3.24 Co-Gen power plant & Utilities 23.45 9.49

Desalination plant (Earmarked separately near coast)	20	8.09
Total Area	1262.15	510.77
Commercial hub and service area	22.55	9.13
Common facilities	23.12	9.36
Common Effluent Treatment plant and STP	15	6.07

- (iv) Land use of the site and around the site up to 10 km radius: The land use of site presently is barren/rainfed agriculture, the surrounding area up to 10 km radius land use comprises mostly Agriculture, Crop land, Built up (Rural), Transportation, Mining/Industrial, Forest, Plantation, Forest-Dense, Scrub Land Open, Sandy areas, Lakes/Ponds, Tanks, River/Stream/Drain, Canal and Sea (Bay of Bengal).
- (v) Justification for selection of the site: The site is selected as part of port area development. Two other sites were evaluated, i.e. Thamminapatnam village, Chillakur mandal, SPSR Nellore district, Andhra Pradesh, and Krishnapatnam village, Muttukuru mandal, SPSR Nellore district, Andhra Pradesh before finalizing this site. The other sites were rejected due to their proximity to thermal power plants.
- (vi) **Rehabilitation involved, if any:** Nil, project area already acquired by the project proponent.
- (vii) **Terrain, level with respect of MSL, requirement of filling if any:** The topographic contours in the proposed project site are ranging from 5 -7 m AMSL (above mean sea level).
- (viii) **Tree cutting, types, numbers, girth size etc.:** The project involves some clearing of bushes and grass. No major trees cutting activities are envisaged.

# (ix) CETP:

1. Type of effluent, Quantity, effluent conveyance system from the member units to CETP

## Type of effluents:

The sources of effluent are both common facilities and individual industries of the estate.

The effluents anticipated from the common facilities are utilities blow downs, pre-treatment waste water. The effluents anticipated from the individual industries are from utilities, pollution control facilities, washings, process etc. additionally domestic wastewater is generated from both developer facilities and individual units. The total effluent is 12.7 MLD. These effluents are segregated as high TDS /COD and LOW TDS / COD streams and separately

transferred to the common effluent treatment plant (CETP) of 16 MLD capacity by above pipe line system.

The treatment scheme consisting of the following unit operations:

**HTDS Effluent**: Stripped in a steam stripper to remove organics and then concentrated in Multiple Effect Evaporators (MEE) followed by drying in Agitated Thin Film Dryer (ATFD). Stripper condensate will be sent to cement plants for Co-Incineration. Salt from ATFD is sent to TSDF. Distillate from MEE and ATFD is sent for further treatment in biological treatment plant.

**LTDS Effluent:** Sent to biological treatment plant along with condensate from MEE and ATFD followed by Guard ponds.

The treated effluents are sent to Marine outfall system through designated marine outfall at a discharge point after conducting bioassay test and achieving marine disposal standards.

## 2. Treatment and usage of treated sewage

The domestic waste water is treated in a dedicated common sewage treatment plant and the treated waste water used for on land irrigation for greenbelt development.

# (x) Types of wastes, sources, collection, treatment, waste generation and disposal:

The proposed common facilities and amenities generate the Hazardous waste, like stripper distillate, evaporation salts, ETP sludge from CETP, solvent residue from SRS system, STP sludge, waste oil, used batteries. Ash from coal fired boilers shall be sent to brick manufacturers during operation stage.

Individual unit shall also generate the following hazardous waste, like, organic residue, inorganic residue, spent carbon, catalyst and filter media. The quantity mentioned for individual units is tentative. Total solid waste generated and mode of disposal from common facilities and amenities individual plots is presented intable below:

S.No.	Description	Units	Quantity	Mode of Treatment/Disposal			
	Common Facilities						
1	Stripper Distillate	KLD	120.5	To be sent to Cement Industries for Co-incineration.			
2	Evaporation salts	TPD	725	To be sent to TSDF			
3	ETP Sludge	TPD	150	To be sent to TSDF/ Cement plants for co-incineration			

# Total Solid Waste Generated and Mode of Disposal (Tentative)

4	STP Sludge	TPD	50	To be used	l as manure	)
5	Spent Solvent	KLD	3222	To be reco premises a	vered withir and reused	n plant
6	Mixed Solvent	KLD	358		ent plants fo	ed recovery or co-
7	Waste oil	KLPA	70	To be sent	to Authorize	ed Recyclers
8	Used Batteries	Nos	3000	To be sent	to Authorize	ed Recyclers
9	Ash from Boiler	TPD	550	Sold to Brid cement pla	ck manufact ints	tures and
		Indiv	vidual Plots			
1	Organic residue	TPD	268.5	To be sent for Co-incir		ement Plants
2	Spent Carbon, Cat and Hyflow	alyst TPD	4			
3	Inorganic Residue	TPD	54	To be sent	to TSDF	
4	Sludge from prima treatment		40	To be sent		on which h
4 (xi)		tions are Yam and Posinavar st revenue villa km from the s ement for the Vater requiren ground water, operation phase f 45 MLD Cap e below:	nadinnapale ripalem in v age from the site in south s source: S e proposed nent dusting / water drav se shall be	m in northe vest direction site is Koth east direction Source of w project is project is construction on from neig 38.3 MLD. I amminapatr	east directi on, which hapatnam on. vater will b during co on stage is ghboring po lt is propos	has about 3 village locate e Buckingha nstruction ar 1 MLD, which ort area. Wat
	treatment The nearest habita about 40 houses a houses. The neares at a distance of 2.5 <b>Total water requir</b> Canal.Water requir operation phases. V shall be drawn from requirement during desalination plant o is presented in table	tions are Yam and Posinavar st revenue villa km from the s ement and its ement for the Vater requiren ground water, operation phase f 45 MLD Cap e below: Tota	nadinnapale ripalem in v age from the site in south s source: S e proposed nent dusting / water drav se shall be pacity at Tha	m in northe vest direction site is Koth east direction Source of w project is project is construction on from neig 38.3 MLD. I amminapatr	east directi on, which hapatnam on. vater will b during co on stage is ghboring po lt is propos nam. Total	has about 3 village locate e Buckingha nstruction and 1 MLD, white ort area. Wate ed to establis
(xi)	treatment The nearest habita about 40 houses a houses. The neares at a distance of 2.5 <b>Total water requir</b> Canal.Water requir operation phases. V shall be drawn from requirement during desalination plant o is presented in table	tions are Yam and Posinavar st revenue villa km from the s ement and its ement for the Vater requiren ground water, operation phase f 45 MLD Cap e below: Tota	nadinnapale ripalem in v age from the site in south s source: S proposed nent dusting / water drav se shall be pacity at Tha al Water Ba PUT, MLD	m in northe vest direction site is Koth east direction Source of w project is project is construction on from neig 38.3 MLD. I amminapatr	east directi on, which hapatnam on. vater will b during co on stage is ghboring po lt is propos nam. Total	has about 3 village locate nstruction and a 1 MLD, whi ort area. Wat ed to establis water balan
(xi)	treatment The nearest habita about 40 houses a houses. The neares at a distance of 2.5 <b>Total water requir</b> Canal.Water requir operation phases. V shall be drawn from requirement during desalination plant o is presented in table	tions are Yam and Posinavar st revenue villa km from the s ement and its ement for the Vater requiren ground water, operation pha- f 45 MLD Cap e below: Tota	adinnapale ripalem in v age from the site in south s source: S proposed nent dusting / water drav se shall be pacity at Tha al Water Ba PUT, MLD	m in northe vest direction site is Kott east direction Source of w project is construction of from neig 38.3 MLD. I amminapatr	east directi on, which hapatnam on. vater will b during co on stage is ghboring po sham. Total	has about 3 village locate ne Buckingha nstruction ar a 1 MLD, which ort area. Wat ed to establis water balance <b>UT, MLD</b>

Total	3	8.3	38.3	
Gross Total	35.9	2.4	23.2	15.13
Gardening	0.68	0.82	1.5	
Domestic	0.9		0.08	0.82
DM Rejects	0.5			0.5

- (xii) **Water bodies, diversion if any:** No water body is being intercepted due to the proposed project, hence no impact on drainage.
- (xiii) Whether the project is in Critically Polluted area: No.
- (xiv) National Park/Wild Life Sanctuary in 10 km radius area & Eco-Sensitive Zone in 10 km radius area: No ecological sensitive places like national park, sanctuary, biosphere reserve, tiger reserve, elephant reserve, heritage sites and critically polluted area and inter-state boundary within the impact area of 10 km. However, there are five reserve forests in the study area. Kothapalem RF is at a distance of Adjacent t site in East direction, Momidi RF is at a distance of 2.1 km in NW direction, Tammenapatnam RF is at a distance of 5.1 km in North direction, Udatavaripalem PF is at a distance of 9.4 km in SW direction and Vallipedu RF is at a distance of 9.8 km in SW direction.
- (xv) If the project involves diversion of forest land, extend of the forest land: No, the project does not involve diversion of forest land.
- (xvi) Investment/Cost of the project: INR 675 Crore.
- (xvii) **Benefits of the project:** The following benefits are envisaged; Rainfed agricultural land to be converted into Industrial Estate, Employment potential to locals, Technical skill development to locals, Availability of affordable medicines, Facilitation of health care-worldwide, Import substitution and export potential.
- (xviii) **Employment potential:** It will generate 20,000 people direct and indirect employment opportunities for both skilled and unskilled labour during operation phase.
- (xix) If any court case pending for violation of the environmental laws: No.
- 3.1.2 The EAC during detailed deliberations in the 215<sup>th</sup> meeting on 20<sup>th</sup> May, 2019, has observed the following:
  - (i) The proposal involves the CRZ Clearance also.
  - (ii) Not provided the list of Category A and category B industries as per EIA Notification, 2006 as amended from time to time.

	(iii)	No dyes and intermediate industries shall be established within the proposed Industrial Estate.
	(iv)	Disposal of Hazardous waste is major issue of concern for this project.
	(v)	Kothapalem Reserved Forest is just adjacent to the proposed site.
	(vi)	Green belt around forest land should not be less than 100m.
	(∨ii)	Distance of the desalination plant is about 5 km from the proposed Industrial Estate. Desalinised water will be transported through pipelines.
	(viii)	Proponent has not informed about the usage of groundwater for the project.
	(ix)	Proponent has not prepared the traffic circulation plan and predictive traffic models.
	(x)	Proponent has proposed to use coal as fuel for boilers.
3.1.3	recon EIA/E	AC, after detailed deliberation during the 215 <sup>th</sup> EAC meeting held on 20 <sup>th</sup> May, 2019, <b>nmended</b> the project for grant of <b>Terms of Reference (ToR)</b> , and for preparation of MP report with public consultations subject to compliance of all conditions as notified standard ToR applicable for such projects and specific conditions, as mentioned <i>r</i> :
	(i)	The PP has to apply for CRZ Clearance also, as per provisions contained in the CRZ Notification, 2019.
	(ii)	Conservation Plan to be prepared for protection of Reserved Forests in consultation with the State Forest Department.
	(iii)	Proponent shall provide list of all category A and category B industries to be housed within the proposed Industrial Estate along with its layout plan.
	(iv)	No dyes and intermediate industries shall be established within the proposed Industrial Estate.
	(v)	Prepare Green belt plan with the buffer of 50 m from adjacent forest land within the proposed land marked for development of Industrial Estate.
	(vi)	Proponent shall prepare the traffic circulation plan with traffic model predictions.
	(vii)	Proponent shall explore the possibilities of using alternative fuel instead of using coal for boilers.
	(viii)	Explore the possibility to establish and utilisation of the Solar power for energy needs.
	(ix)	Submit copy of MoU with nearby Hazardous Waste Management Facility.
	(x)	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.

	(xi)	The PP shall not use groundwater without obtaining approval from CGWA/SGWA as the case may be. The project proponent shall apply to the Central Ground Water Authority (CGWA)/State Ground Water Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC), for withdrawal of ground water.
	(xii)	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.
3.2		opment of Industrial Estate "Foundry Park" at Hauli Bagan, Ranihati, Amta Road, h, West Bengal by M/s Foundry Cluster Development Association – <b>Terms of</b> ence
	[Propo	sal No. IA/WB/NCP/96144/2019] [F. No. 21-28/2019-IA.III ]
3.2.1		roject proponent along with the EIA consultant M/s Grass Roots Research & on India (P) Ltd. made a presentation and provided the following information to the ittee:
	(i)	The proposal is for development of Industrial Estate "Foundry Park" at Hauli Bagan, Ranihati, Amta Road, Howrah, West Bengal.It will accommodate 150 Foundry units with a total production capacity of 1.0 Million Ton/yr Foundry products and 1,80,000 Ton/year Pig Iron.
	(ii)	Location: Hauli Bagan, Ranihati, Amta Road, P.S. Jagatballavpur, Howrah West Bengal.
	(iii)	Land use of the site and around the site up to 10 km radius: Foundry Cluster Development Association occupies about 924 acres (nearly 3739298.64 sqm). The land is already acquired; registration and mutation are completed and fully developed. The proposed site is designated for development of an Industrial Estate/factory.
	(iv)	Land Acquisition: Total Plot area is 3739295.33 sqm. (924 acres). The acquired land is fully developed.
	(v)	<b>Justification for selection of the site</b> : The proposed Site has been acquired on the basis of its connectivity to the major cities through the National Highway and the State Highway no 6 and second Hooghly Bridge. The Site does not fall under any biological sensitive areas such as forest, wild life sanctuaries, ecologically sensitive areas, water reserves etc. The land has been declared for Industrial land use and the same has been demarcated in the proposed master plan being developed for this region.

(vi)	CETP:			
	• •	astes from the in	nt conveyance syste dustries, Resident	
		•	d sewage – Waste ter will be used fo	-
(vii)	Rain Water Harve	esting: RWH will b	e provided by indiv	idual industry.
(viii)	Rehabilitation inv	volved, if any: No	R&R is proposed.	
(ix)	Terrain, level with	n respect of MSL,	requirement of fi	lling if any: No.
(x)	Tree cutting, type	es, numbers, girth	n size etc.: No.	
(xi)	<b>Total water requirement and its source:</b> Required water for proposed unit be 5.25 MLD supplied by deep water tube well. Water distribution system s include: Water for Industrial purposes - 3.15 MLD Domestic - 1.75 MLD Ot uses- 0.35 MLD.			
			5 - 3.13 MILD DO	mesuc - 1.75 MLL
(xii)	uses- 0.35 MLD. <b>Total Power requ</b> is provision of DG	<b>irement:</b> The tota sets for power b pustic enclosure to	l electrical load for	the project 90MW ject. The DG sets
(xii) (xiii)	uses- 0.35 MLD. <b>Total Power requ</b> is provision of DG equipped with acc	<b>irement:</b> The total sets for power boustic enclosure to oper dispersion.	l electrical load for back up in the Proj o minimize noise g	the project 90MW ject. The DG sets
. ,	uses- 0.35 MLD. <b>Total Power requ</b> is provision of DG equipped with acc stack height for pro	<b>irement:</b> The total sets for power boustic enclosure to oper dispersion. eration, treatment	l electrical load for back up in the Proj o minimize noise g	the project 90MW ject. The DG sets generation and ac
. ,	uses- 0.35 MLD. <b>Total Power requ</b> is provision of DG equipped with acc stack height for pro <b>Waste water gene</b>	<b>irement:</b> The total sets for power boustic enclosure to oper dispersion. eration, treatment	l electrical load for back up in the Proj o minimize noise o t <b>and disposal:</b>	the project 90MW ject. The DG sets generation and ac
. ,	uses- 0.35 MLD. <b>Total Power requ</b> is provision of DG equipped with acc stack height for pro <b>Waste water gene</b>	<b>irement:</b> The total is sets for power boustic enclosure to oper dispersion. <b>Eration, treatment</b> Was	l electrical load for back up in the Proj o minimize noise o t <b>and disposal:</b> tewater Generation (I	the project 90MW ject. The DG sets generation and ac
. ,	uses- 0.35 MLD. <b>Total Power requ</b> is provision of DG equipped with acc stack height for pro <b>Waste water gene</b> Use	irement: The total sets for power b oustic enclosure to oper dispersion. eration, treatment Was Non SEZ	l electrical load for back up in the Projon minimize noise of t and disposal: tewater Generation (I	the project 90MW ject. The DG sets generation and ac MLD) Total
	uses- 0.35 MLD. <b>Total Power requ</b> is provision of DG equipped with acc stack height for pro <b>Waste water gene</b> Use Industrial	irement: The total is sets for power b oustic enclosure to oper dispersion. eration, treatment Was Non SEZ 0.00105	l electrical load for back up in the Projoninimize noise of the and disposal: tewater Generation (I SEZ 0.00045	the project 90MW ject. The DG sets generation and ac MLD) Total 0.0015

It is expected that the project will generate approx. 1.7215 MLD of wastewater. The waste water will be treated in water treatment plant. Treated waste water will be fully used for dust suppression and horticulture & green belt maintenance.

- (xiv) Water bodies, diversion if any: The River Hooghly is at a distance of approx.10.5 km away from the site in East direction.
- (xv) Whether the project is in Critically Polluted area: No.

(xvi)	Municipal solid waste generated disposal facility:
	Construction Phase:
	The total quantity of domestic waste has been worked out as 3.75 MT per day at the ultimate stage of development. For disposing off this domestic waste and the non-hazardous industrial waste, a solid waste disposal site has been located within the park.
	Operation Phase:
	There will be approx. 6.0 Lakh tones/year generation of solid waste which will be recycled.
(xvii)	Hazardous wastes (as per Hazardous Waste Management Rules): No hazardous waste will be generated. A small amount of Bio Medical Waste generated from the Health Centre and it will be disposed through authorized and recognized agency of West Bengal Pollution Control Board.
(xviii)	National Park/ Wild Life Sanctuary in 10 km radius area & Eco-Sensitive Zone in 10 km radius area: No.
(xix)	If the project involves diversion of forest land, extend of the forest land: No.
(xx)	Investment/Cost of the project: INR 9502.72 Lakhs.
(xxi)	<b>Benefits of the project:</b> The project aims at development of growth centre, which would help in creation state-of-the-art industrial infrastructure in the district. The project will facilitate in creation of employment opportunities both direct & indirect for local population. The project will help in the urban development by creating all essential amenities and hence the projects will hence immense benefits for social upliftment. The project also aims at development of better landscaping in the vicinity as well as creation of green belt in the area which would eventually help in the improvement of visual and aesthetic quality of the area. With the implementation of the project, other utilities would also be created like development of road network, sewerage network, augmentation of water supply system & waste water treatment, solid waste collection facility, educational and health facilities etc. in nutshell, project aims at amelioration of the socio-economy of the areas as well as providing basic amenities to people.
(xxii)	Employment potential:
	<b>Construction Phase:</b> For proposed unit there will be requirement of temporary workers during construction

	(xxiii)	If any court case pending for violation of the environmental laws: No.
	(xxiv)	) <b>Details of earlier EC, if any and compliance thereof</b> : Earlier EC granted on dated 24 <sup>th</sup> March, 2008 vide letter no. 21-1149/2007-IA.III.
3.2.2		EAC during detailed deliberations in the 215 <sup>th</sup> meeting on 20 <sup>th</sup> May, 2019, has ved the following:
	(i)	Proponent/EIA consultant has submitted application for this proposal as new proposal. It was not mentioned in Form-1 of ToR application that EC was granted for the same project on 24 <sup>th</sup> March, 2008.
	(ii)	The Proponent mentioned that proposal has already been granted EC on 24 <sup>th</sup> March, 2008. However, the project could not be completed due to Singur-Nandiram controversy related to land acquisition for establishment of Special Economic Zone (SEZ) project of the State Government. The EC expired before completion of the proposed construction work. Hence applied afresh for grant of EC. Details of the completed infrastructure facilities are not provided.
	(iii)	Earlier EC was granted vide letter no. 21-1149/2007-IA.IIIdated 24 <sup>th</sup> March, 2008 for the capacity of 1.0 Million Tonnes only. The proponent also informed that they had earlier submitted the request for the capacity of 1.0 Million Ton/Year of foundry products and 1,80,000 Ton/Year of Pig Iron. However, in the EC letter, it was mentioned as 1.0 Million Ton/Year of foundry products only. Then, EAC asked the PP to submit the revised cost of the project.
	(iv)	Total cost of the proposal granted EC in 2008 is Rs. 125 crore without including the cost of land. However, the cost has been reduced to Rs. 95.03 Crore without including the cost of land. At present the cost of the land has increased by many folds as compared to 2008.
	(v)	Submitted a list of 119 Industries to be housed within the proposed Foundry Park. Only one (M/s Concast Infrastructure Pvt. Ltd.) of these industries belongs to Category A industries.
	(vi)	Base Line Data (BLD) was collected by an agency that does not have QCI/NABET accreditation.
3.2.3		deliberations during 215 <sup>th</sup> meeting on 20 <sup>th</sup> May, 2019, the EAC <b>deferred</b> the proposal ant of following information/clarifications:
	(i)	Proponent needs to submit the revised Form-1 application as expansion proposal only. Proponent should also mention about the additional production of 0.18 Million Ton/Year Pig Iron. The details of earlier EC granted for this Foundry Park project also to be mentioned in the Form-I application.
	(ii)	Proponent needs to clearly state in its application and revised Form-2 that KNIC is a subset of MNIMZ.

	(iii)	Provide the details of completed infrastructure facilities in the Foundry Park with layout plan.
	(iv)	Provide the details of project cost including the cost of land with the proof.
	(v)	Explore the possibility of using surface water for Foundry park.
	(vi)	Submit an undertaking that no industry is established and operational within the Foundry Park premise.
	(vii)	Long term use of ground water for the project may lead to Arsenic problem. Proponent to shift to use of surface water subsequently.
3.3	Kalinę	opment of Kalinganagar National Investment & Manufacturing Zone (KNIMZ) at ganagar, district Jajpur in Odisha. by M/s Odisha Industrial Infrastructure lopment Corporation– Terms of Reference
	[Prop	osal No. IA/OR/NCP/101080/2019] [F. No. 21-29/2019-IA.III]
3.3.1	Limite	roject proponent along with the EIA consultant M/s Greencindia Consulting Private ed, Ghaziabad, made a presentation and provided the following information to the nittee:
	(i)	The proposed project is for development of Kalinganagar National Investment & Manufacturing Zone (KNIMZ)at Kalinganagar, district Jajpur, Odisha
	(ii)	Location: Kalinganagar, district Jajpur, Odisha.
	(iii)	Land use of the site and around the site up to 10 km radius:
		The site demarcated for NIMZ extends over 43 villages as listed below in Jajpur district and also forms a part of the Kalinganagar Development Authority (KNDA) area.
		Land use of the KNIMZ area is dominated by agricultural use & village settlements. Productive agricultural land is concentrated around drainage channels, reservoirs and Brahmani River.
		There are some existing industries within the project site.
		Barang Reserved Forest, Balibo Reserved Forest, Patilo Reserved Forest, Mahagiri Protected Forest, Ragarhi Protected Forest, Tamka Protected Forest are located within 10 km radius from the project boundary.
	(iv)	Land Acquisition: KNIMZ covers an area of 16,325 hectares (163.25 sq.km) of land out of which the existing area is 6,777 hectares (67.77 sq.km) and the area available for future development shall be 9,548 hectares (95.48 sq.km).
		Processing Area: 67.33 sq.km (Existing – 30.11 sq.km + Proposed – 37.22 sq.km) (41% of total area).
		<ul> <li>Non-processing Area: 95.92 sq.km (Existing – 37.66 sq.km + Proposed – 58.26 sq.km) (59% of total area)</li> </ul>

(v)	<b>Justification for selection of the site</b> : Some of the key advantages of locatin the NIMZ at the said site at Kalinganagar are:
	The KNIMZ includes Kalinganagar Industrial Complex (KNIC) which has bee developed by IDCO in the Jajpur district of Odisha, known as the Steel Hub Odisha.
	Availability of raw materials and minerals in the state
	Road Connectivity:
	<ul> <li>NH-53 (200) connects the site to the sea port of Paradip (120 km away towards the east and the industrial town of Angul towards the wes through which it is further connected to Raipur and Rourkela.</li> </ul>
	<ul> <li>Along the south, NH 53 connects the site to the city of Cuttack (85 km and capital city Bhubaneshwar (110 km) in the south.</li> </ul>
	<ul> <li>NH 215 connects the site to Keonjhar (85 km) in the north, from where is further connected to Jamshedpur and Kharagpur.</li> </ul>
	<ul> <li>The NH-5 also passes near the project area and connects it to the majo cities like Kolkata and Bhubaneswar.</li> </ul>
	<ul> <li>Distances of major urban areas from the site-</li> </ul>
	✓ Bhubaneshwar:- 110 km.
	✓ Cuttack:- 86 km.
	✓ ParadipPort:- 120 km.
	✓ Keonjhar:- 96 km.
	✓ Angul:- 110 km.
	✓ Jamshedpur:- 260 km
	Rail Connectivity:
	<ul> <li>The Jajpur - Keonjhar railway station, lying on the Kharagpur Bhubaneshwar railwayline, connects the site with the east coast railwa network.</li> </ul>
	<ul> <li>The Jakhapura junction connects the site to the Jamshedpur Vishakhapatnam railway line.</li> </ul>
	Air Connectivity:
	<ul> <li>The airport closest to the site is the Biju Patnaik International Airport (12 km) in Bhubaneswar, which connects it to all major metros and citie including New Delhi and Mumbai.</li> </ul>

	> Port:
	<ul> <li>Kalinganagar is located at a distance of 120 km from Paradip Port ar 160 km from Dhamra Port which are well connected through road and ra</li> </ul>
	Land availability:
	Proximity to urban centres of Bhubaneswar, Cuttack, Paradeep, Keonjha Angul, etc.
(vi)	Rain Water Harvesting: Details of such information will be furnished in the E Report.
(vii)	<b>CETP:</b> No CETP is proposed. The individual industrial units will have their ov ETP to treat their industrial waste water.
(viii)	<b>Rehabilitation involved, if any:</b> There will be some rehabilitation issues in the project, which will be addressed following Nation / State R&R Policy.
(ix)	Terrain, level with respect of MSL, requirement of filling if any:
	Kalinganagar region has an average elevation of 51 m above Mean Sea Lev and the ground level varies from 24 m to 258 m.
	The area is quite flat with few undulating depressions and hillocks. The Area is more or less N-S trending land terrain with a few intermittent saucer tyl depressions, ridges and valleys having steep gradient.
(x)	Tree cutting, types, numbers, girth size etc.: Details of such information will I furnished in the EIA Report
(xi)	<b>Total water requirement and its source:</b> The total water demand for the proposed development in the KNIMZ is estimated as 304.13 MLD. Fresh wated demand is 180.12 MLD and the balance water demand of 124.01 MLD can fulfilled from the recycled water.
	Water from Brahmani river will be made available to meet the requirement of the KNIMZ.
(xii)	<b>Power requirement:</b> Peak load demand has been estimated to be around 939 MW, which will be required in the Industrial area, Residential area, Commercia Institutional / Amenities areas, Logistic facilities, lighting load and utilities (WT STP, etc.).
(xiii)	Waste water generation, treatment and disposal: The respective Industries be located in the KNIMZ area shall have their own Wastewater treatment facilities
	The domestic sewage to be generated in the KNIMZ area shall be collected through extensive sewerage system and finally treated in the proposed four (

(xiv)	Water I	oodies, diversion if any:					
		number of streams and pone vering a total area of 2.07 So	ds are spread over entire area o q. Km.	of KNIMZ site,			
		The streams or rivulets flowing through the site ultimately drain into the Brahmani River.					
		Brahmani River flows in the southernmost part of the site, which confluences with River Mahanadi and Baitarni eventually draining into Bay of Bengal.					
		ahmani River forms a large Dhamra	delta before emptying into the	Bay of Benga			
(xv)	Whethe	er the project is in Critically	y Polluted area: No.				
(xvi)	<b>Municipal solid waste generated disposal facility:</b> Total quantity of domesti solid waste generated from industrial, logistics & terminal, domestic, commercia institutional, green areas, utility areas and street sweeping in the proposed KNIM2 shall be around 333.2 tons/day.						
	industri materia physica Recycla	The municipal wastes produced from residential areas, shops, commercial and industrial establishments are composed of food and other discarded waste materials such as paper, plastic, glass, metal, rags, packaging materials. The physical composition of municipal solid waste is normally presented as Organic, Recyclables and Inert matter. There is a small percentage of recyclable material and more of compostable organic matter and inert materials.					
	After composting, recycling, and removal of moisture, 15% of the solid waste (in the form of inert material) would reach landfills. Also the sulfate-rich dried sludge from water treatment plants and waste water treatment plants will be sent to municipal landfills. The land requirement has been estimated at 8.77 hectares. An area of 70 acre (28.32 ha) has been allotted to M/s Ramky Infra in Kanchichua for solid waste management for the area.						
(xvii)	Nationa	al Park/ Wild Life Sanctuary	<b>y in 10 km radius area:</b> No.				
(xviii)	Eco-Se	nsitive Zone in 10 km radi	us area:				
	SI. No.	Name of the Forest	Distance w.r.t. the project boundary				
	1	Dangadi R. F.	Within project boundary				
	2	Barang R. F.	2.0 km				

3

4

5

Patilo R. F.

Balibo R.F.

Mahagiri PF

9.2 km

6.6 km

4.0 km

		6	Ragarhi PF	4.4 km	
		7	Tamka PF	7.0 km	
	(xix)	•	q.km of forest land is	rsion of forest land, extend of the project site whit	
	(xx)	Investm	nent/Cost of the proje	ct: INR 10,627 Crore.	
	(xxi)	township clean a develop transitio	os with state of the art nd energy efficient t ment facilities, etc., t ning from the primary s	NIMZ will be developed as integ infrastructure and land use on the technology; necessary social infra to provide a productive environm sector to the secondary and tertiary	basis of zoning; astructure; skill ent to persons sectors.
		incentive result ir	es provided by a NIMZ	g industrial base of KNIC with th to develop a world class industrial z f a self-sustained cluster in the	one. This would
	(xxii)		• •	Novment generation during the op Ind 4,00,000 (both direct & indirect)	•
	(xxiii)	If any co	ourt case pending for	r violation of the environmental la	<b>aws:</b> No.
3.3.2			ns during 215 <sup>th</sup> meeting wing information/clarifi	g on 20 <sup>th</sup> May, 2019, the EAC <b>deferr</b> cations:	ed the proposal
	(i)	Revised	Form-1 clearly stating	whether the proposed project is New	w or Expansion.
	(ii)			Government Order of the State C Industrial Complex (KNIC) over	
	(iii)	establish	ment of Kalinganaga	overnment Order of the State of the State of the State of National Investment and Manu fland that encompasses KNIC area	Ifacturing Zone
	(iv)			at of all the industrial units and EC units located within the proposed KN	
	(v)	Submit c	credible proof of applic	cation submitted for seeking Fores	t Clearance for

3.4	Jodhp Rajas Natio <b>Clear</b>	Construction of 4/6-lane access control NH-754K from Dhadhaniya Sasan (district Jodhpur) to Rajasthan-Gujarat Border near Sanchore (district Jalore) in the state of Rajasthan, part of Amritsar to Kandla Corridor under Bharatmala Pariyojana by M/s National Highways Authority of India - <b>Further consideration for Environmental Clearance</b> [Proposal No. IA/RJ/NCP/ <b>94687</b> /2018] [F. No. 10-51/2018-IA.III]						
3.4.1	•	project proponent along with the EIA Consultant M/s Enviro Infra Solutions Pvt. Ltd., iabad, provided the following information to the Committee:						
	(i)	The proposal involves the Construction of 4/6 lane Access Control National Highway No. 754K from Dhadhaniya Sasan (Jodhpur district) to Rajasthan-Gujarat Border near Sanchore (district Jalore) in the state of Rajasthan under Bharatmala Pariyojana (Package 7/Lot-4). The alignment has a length of 208.242 Km.						
	(ii)	<b>Location:</b> The alignment shall start between Dhandhaniya Sasan and Agolai towns in district Jodhpur at design Ch1+142 km (26°19'12.53"N, 72°35'48.83"E) and traverses entirely through plain/rolling terrain in Rajasthan state and ends at Rajasthan–Gujarat Border at Ch. 207+100 km (24°39'51.63"N 71°44'46.86"E) of district Jalore, Rajasthan.						
	(iii)	The proposed section will cover Jodhpur, Barmer and Jalore districts in Rajasthan state.						
	(iv)	Land use of the site and around the site up to 10 km radius: The Land use pattern on 10 km on either side of the project road was analyzed and is found to be predominately agriculture followed by fallow, wastelands, forest and few habitations.						
	(v)	Land Acquisition and Proposed RoW: The land acquisition for the proposed alignment is approximately 1730.16 ha. The proposed RoW of the project is 70 m.						
	(vi)	<b>Total water requirement and its source:</b> The peak water requirement is 19,000 KLD during construction stage and will be extracted from local surface water resources i.e. from nearby canals after getting necessary permission from concerned authority. The work will be executed through contractor and will be furnished at EC compliance stage.						
	(vii)	Water bodies, diversion if any- 179 Wells will be impacted due to the proposed highway.						
	(viii)	Waste Management:						
		<ul> <li>(viii) Waste Management:</li> <li>(a) Water requirement, source, status of clearance: The peak water requirement is 19,000KLD during construction stage and will be extracted from local surface water resources i.e. from nearby canals after getting necessary permission from</li> </ul>						

	concerned authority. The work will be executed through contractor and will be furnished at EC compliance stage.
	(b) <b>Waste water quantity, treatment capacity, detail</b> : 68 KLD Waste water sha be generated and shall be disposed through soak pits.
	(c) <b>Recycling / reuse of treated water and disposal:</b> Waste water shall dispose through soak pits.
	(d) <b>Solid Waste Management</b> : 500 kg/day (approx.) during construction phase and 50 kg/day (approx.) during operation phase. Bio degradable waste shall b disposed through bio composting and other waste through landfill site.
	(e) <b>Hazardous Waste Management</b> : The hazardous waste generated durin construction period will be disposed off as per applicable rule.
(ix)	<b>Tree cutting, types, numbers, girth size etc</b> .: The alignment will involve cuttin of around 5,909 trees.
(x)	<b>Rehabilitation involved if any:</b> Total 370 structures are coming in the propose RoW. The land will be acquired as per procedure laid down in RFCT LARR Ac 2013.
(xi)	<b>If the project involves diversion of forest land, extend of the forest land</b> - Yes after joint enumeration the diversion of 13.219 ha of Protected forest land has bee identified and submitted online for clearance vide proposal no FP/RJ/ROAD/38738/2019 dated 6 <sup>th</sup> February, 2019.
(xii)	Green belt development (20 % of construction projects and 33% for others) Green belt development will be done as per IRC SP 21:2009 /MoRT Code/Guidelines. Plantation of about 1,24,800 trees has been proposed. Shru plantation and grass carpeting in median is also proposed.
(xiii)	<b>Rain Water Harvesting:</b> Rainwater harvesting structures shall be provided near the disposal point of the side drains as prescribed by CGWB guidelines.
(xiv)	<b>Parking requirement with provision made</b> - The proposed expressway har provision of parking at Toll Plaza and Way side amenities.
(xv)	Whether the project is in Critically Polluted area: No.
(xvi)	National Park/ Wild Life Sanctuary in 10 km radius area and Eco-Sensitive Zone in 10 km radius area: The proposed alignment does not pass throug Wildlife Sanctuary/National Park and its eco sensitive zone.
(xvii)	Investment/Cost of the project: INR. 4043 Crore.
(xviii)	Benefits of the project:

	2	Tell us about the provisions made for their movement in case national highway is passing through the middle of their land / farm.	Service lane / SVP will be provided along the national highway and underpass and overbridge will be made at a fixed distance from the highway so that no problem in movement arises.					
	1	Request to tell us about the compensation amount of the acquired land of the farmers by the Government.	Compensation of acquired land, residential and commercial construction will be given as per criteria and rules of Land Acquisition Act 2013.					
	S. No.	Issues raised	Response of PP					
	Majo are:	<b>.</b> .	aring and response of project proponent					
		3 <sup>th</sup> February 2019 at Atal Seva I achpadra, district Barmer	Kendra, Gram Panchyat Asotra, tehsil					
		8 <sup>th</sup> January 2019 at State Seconda alesar, district Jodhpur	ary School, Dhandhaniya Bhayla, tehsil					
	• 2	Dlic Hearing: Public Hearing was cor 2 <sup>nd</sup> January 2019 at Additional Distric alore.	t Magistrate Office, tehsil Bhinmal, district					
(xx)	date	ed 12 <sup>th</sup> September, 2018.	is granted vide letter No.10-51/2018-IA.III					
(xix)	pers cons	sons would be employed temporarily	struction of the road project around 1000 for a period of 2 years. However due to persons will be employed on permanent eople for employment.					
	• Wit	h improvement in economy, more ge	neration of employment opportunities.					
		proved road connectivity helps in be vernment schemes.	tter implementation and management of					
		ster transportation will strengthen tour	rist development in the area.					
		engthening of both rural & urban econ enario of the state and country.	omies which in turn will improve economic					
	• Imp	proved access to higher education facilities & modern health facilities.						
	sec	-	urban population which will benefit the all population, small-medium-large scale					

	3	What are the provisions made to stop the negative impact that will arise on nearby lands of farmers due to the construction of this national highway.	Rs 37 Cr. has been proposed for Environment Management Plan under this proposed project. Trees will be planted on both sides of the road in rows of three since ROW is of 70m. As per EMP, there is provision of Green belt plan to control air pollution and approx. 1,24,800 trees will be planted. There will be provision of water sprinkling on both sides of highway so as to control the dust. More and more plantation will be done.
	4	This road construction will destroy our biodiversity. What are the provisions to protect it?	Shri Vijay Sharma, Environmental Consultant – In this proposed project, tree plantation will be done on both sides of the road and approx. 1,24,800 trees will be planted, as a result of which biodiversity of the area will not be affected.
	5	In Sanchore, 24 Km area from Golasan to Bhadura, is irrigated by Narmada canal for sowing of 3 crops. Crops and environment will be affected due to this proposed project. Farmers will be adversely affected by this.	Due to this project, no river or canal will be blocked and to protect them, small and big bridges will be constructed which will not affect the irrigated land of farmers. Huge plantation will be done on both side of the road which will increase the oxygen level in the area and will not affect the lifecycle of people living in the nearby area.
	6	In Jalore district, trees like Kejdi, Rohida, Neem, Babool, Shisham and Peepal will be affected in this region and will create an imbalance in the environment.	Under this project, only those trees will be planted which are found in this region. Help of Forest department will be taken so that plantation is done properly.
	7	Jalore district is famous for it's spices cultivation. Due to this road construction, production quantity of spices like Jeera, Esab, Daal, Dalhan, Mirch, Dhaniya, Saauf, etc will reduce and disturb the social component of this region.	Due to this project, land of those farmers which will be affected, will be given appropriate compensation so that they can purchase new land and cultivate their spices. This will then not affect their income and production of spices.
	8	Due to environmental imbalance, there is a probability of increase in diseases in the region during the summer season.	To protect the environment, tree plantation will be done on both sides of the road and approx. 1,24,800 trees will be planted. This will minimize the probability of increase in diseases in the region during the summer season.
(xxi	i) <b>If an</b>	y court case pending for violation	of the environmental laws: No.
(xxi	JSW	Barmer Power Station and Giral L	notification, 2016. Fly ash is available at ignite Power Plant which is close to the 0 km. Approx. 3.7 Mcm amount of fly ash

is proposed to be used for the construction of the proposed project as per availability.

- (xxiv) The proposed expressway is part of an exclusive transport corridor from Amritsar to Jamnagar and our alignment is part of this and is being planned between Dhadhaniya Sasan (Jodhpur district) to Rajasthan-Gujarat Border near Sanchore (district Jalore) by the Government of India.
- (xxv) Information about packages of the Amritsar-Jamnagar Corrdior, as desired by EAC, was also provided. It was informed that the cumulative impact assessment of Amritsar to Jamnagar section will be done after completion of details study of the entire stretch from Amritsar to Jamnagar corridor.
- (xxvi) The major habitations along the expressway corridor are Dhadhaniya Sasan, Deogarh, Dhadhaniya Bhayala, Aagolai, Jasti, Mansar, Rama Berdawas, RorwaKhurd, Tibaniya, Gangawas, Bagnawas, Mandli, Meghawas, Mohanpura, Dhoondhali, TirsingriSodha, Tirsingri Chauhan, Thob, RewaraJetmalan, Patau Kalan, Hanumangarh and Golasan etc.

S.No.	Particulars	Area(Ha)	Percentage (%)
1.	Water bodies	54.8	0.26
2.	Fallow land	80.5	0.39
3.	Forest land	58.2	0.28
4.	Settlements	31.25	0.15
5.	Waste land	1250	6.00
6.	Crop land	19349.45	92.92
	Total	20824.2	100

(xxvii)Detailed Landuse pattern along the alignment was provided as under:

- (xxviii) 10 Major bridges, 20 Minor Bridges, 1 ROB, 85 SVUP, 26 VUP, 9 Interchange and 34 LVUP are proposed along the project stretch for free passage to locals.
- (xxix) Provided the details of fund allocation of Rs.20.20 Crore for Corporate Environment Responsibility (CER) as per Ministry's O.M. No. 22-65/2017-IA.III dated 1<sup>st</sup>May, 2018 for various activities.
- (xxx) Total cost of EMP was mentioned as 33.80 crore, which does not include CER, mentioned above.

The ma	ored value aximum C	es are hi GLC due	d for PM₁ ghest in re to excava 3.4 μg/m³ a	ecept ation,	or villa Ioadin	ges for l g & unlo	PM₁₀ adin	and PM	1 <sub>2.5</sub> res	pect
Locatio	วท		Pollutants		N-Cord	l.	E-C	ord.	GLC	(µg/m
Khoda			PM 10		24.656	759	71.7	769535	3.4	
Dhadh	aniya Sasa	an	PM 2.5		26.308	786	72.5	565544	2.1	
Station Name	Pol	llutants	Sampling Station	Avg. (µg/n	Conc. 13)	Predicte GLC (µg/m3)	d	Resultant concentra (µg/m3)		NA (µg
			Station	(µg/n	13)	(µg/m3)		(µg/m3)		(µg,
Khoda	PM	110	AAQ 15	93.48	3	3.4		96.88		100
Dhadhaniya Sa	asan PM	12.5	AAQ 1	34.1		2.1		36.2		60
(xxxiv)	-	y of impa	acts and m	nitigat		asures: ial Meas	ure			
Environmenta Issue/ Component										

	nd its ent •	The impact o construction s adverse, but nature No serious he problem is lik caused	sites is rather localized in ealth	emissions The hot-m 500 m fron be filled wi Water sho mixing site roads. In fi needed to impacting, prevent du	from the hot m ix plants should in the nearest h th dust extract uld be sprayed s, asphalt mixi lling subgrade solidity the ma water should b st.	e level of dust nix plants shall be taken d be located at least nabitation. They should ion unit. I in the line and earth ing site and service , water spraying is iterial. After the be sprayed regularly to rial should be covered.
(xxxvi) i i	or Wildlife Co Provio under Bharat is 1298.285 k notification N	orridor falls w led the detai mala Pariyoj km out of whi	ithin the 10 ls of Packag ana. The to ch 761.985 ed 8 <sup>th</sup> May,	km radius o ges for Amr otal length o km is greer	of the propositisar to Jam f Amritsar to field notifie	nat no Protected Ar sed alignment. nagar project corrid o Jamnagar alignme d by MoRTH, Gaze packages under t
S.No.	Section name	e	Alignment classi- fication	Length (km)	TOR status	EC status
1		54 with four ation (Amritsar ection)	Existing alignment	196.20		tract prior EC under EI
			(NH-54)			2006 and subsequent amendments
2	lane configura	54 with two ation which will raded to four configuration Sangariya/	(NH-54) Existing alignment (NH-54)	85.10	Does not attr	2006 and subsequent amendments act prior EC under EIA 006 and subsequent

4	Construction of 4/6 lane road (NH-754K) from Rasiser, Bikaner (km 0.000) to Deogarh, Jodhpur (km 175.758) in the state of Rajasthan, part of Amritsar to Kandla Expressway under Bharatmala Pariyojana. Length: 175.785 km Proposal No. IA/RJ/NCP/94368/2019 F. No. 10-63/2018-IA.III	Greenfield alignment (New NH- 754K)	175.758	EAC committee in its 195 <sup>th</sup> meeting dated 31 August, 2018 granted TOR.	EAC committee in its 208 <sup>th</sup> meeting recommended the project for EC, however due to shortcoming EAC committee will be reconsidering the project in its upcoming 215 <sup>th</sup> meeting for Environmental Clearance
5	Construction of 4/6-lane access control NH-754K from Dhadhaniya Sasan (District Jodhpur) to Rajasthan-Gujarat Border near Sanchore (District Jalore) in the state of Rajasthan. Length : 208.242 Proposal No. IA/RJ/NCP/94687/2018 F. No. 10-51/2018-IA.III	Greenfield alignment (New NH- 754K)	208.242	EAC committee in its 193 <sup>rd</sup> meeting dated 26 July, 2018 granted TOR.	EAC committee during its 208 <sup>th</sup> meeting held on 19 <sup>th</sup> February, 2019 deferred the project due to submission of public hearing details for two districts instead of three districts in final EIA and EMP. Accordingly, EIA and EMP is updated and submitted online. EAC committee during 211 <sup>th</sup> meeting held on 27 <sup>th</sup> March, 2019, reconsider the project and raised shortcomings /Additional details. ADS reply have been uploaded online dated 04.05.2019 & EAC committee will be reconsidering the project in its upcoming 215 <sup>th</sup> meeting.
6	Development of new proposed National Highway NH-754K greenfield alignment Sanchore - Santalpur section (Economic Corridor-3) starting from Vantdau in Banaskantha district to Ranmalpura in Patan district in the State of Gujarat. Length approx. 124.6 km Proposal No. IA/GJ/MIS/75732/2018 F. No. 10-60/2018-IA.III	Greenfield alignment (New NH- 754K)	125.185	EAC committee in its 206 <sup>th</sup> meeting dated 25 January, 2018 granted TOR.	Public hearing is under process

	7	Existing NH-27with four lane configuration (Santalpur to Malia section)	Existing alignment (NH-27)	124.00	Does not attract prior EC under EIA Notificatio, 2006 and subsequent amendments				
	8	Existing NH-151A (Malia to Jamnagar section )	Existing alignment (NH-151A)	131.00	Does not attract prior EC under EIA Notificatio, 2006 and subsequent amendments				
3.4.2	The EAC, during 208 <sup>th</sup> meeting held on 19-20 February, 2019, observed Public Hearing has been conducted for only two out of three districts. Therefore, the EAC did not consider the proposal and advised the PP to submit the revised EIA/EMP after incorporating all the Public Hearing reports of the all districts involved in this project. Hence the proposal was <i>deferred</i> by the EAC.								
3.4.3		AC, after detailed deliber ed the proposal for want of		•	eeting held on 27 <sup>th</sup> March, 2019, documents:				
	(i)	Details of all the package	s of the prop	oosed align	ment shall be submitted.				
	(ii)	Predictive Modelling for P	M2.5 and PM	/I <sub>10</sub> along w	ith the mitigation measures.				
	(iii)	•	rotected Ar	ea or Wildli	nt, a certificate from Chief Wildlife fe Corridor falls within the 10 km tted to the Ministry.				
	(iv)	Certificate of accreditation	n from QCI/I	NABET.					
3.4.4		detailed deliberations dur ng points were observed:	ring 215 <sup>th</sup> r	neeting of	EC(Infra-1) on 20th May, 2019,				
	(i)	Provided details of all the	packages c	of the propo	sed alignment.				
	(ii)	Carried out Predictive Mo measures.	delling for P	M <sub>2.5</sub> and P	M <sub>10</sub> along with the mitigation				
	(iii)	Provided a certificate from Wildlife Corridor falls with			n stating that no Protected Area or he proposed alignment.				
	(iv)	Provided a copy of valid of	certificate of	accreditatio	on from QCI/NABET.				
3.4.5	recom	mended the project for	grant of En	vironment	meeting held on 20 May, 2019, al Clearance, with the following applicable for such projects:				
	(i)		•		me of court cases pending against of India / High Court / other courts,				

- (ii) The recommendations of Cumulative Impact Assessment studies for all the packages shall be implemented under intimation to the Ministry and its Regional Office concerned.
  - (iii) Approval/permission of concerned authority shall be obtained before drawing water from the irrigation canal. State Pollution Control Board (SPCB) concerned shall not issue Consent to operate (CTO) till the project proponent obtains such permission.
  - (iv) The proponent shall obtain permission from the competent authorities for tree felling along the proposed alignment.
  - (v) As proposed, proponent shall plant 1,24,800 trees along with the shrub plantation and grass carpeting in median of the proposed alignment. A comprehensive plan for afforestation using native species shall be provided as per the IRC Guidelines on Landscaping and Tree Plantation (2009).
  - (vi) As proposed, rainwater harvesting structures shall be provided near the disposal point of the side drains as prescribed by CGWB guidelines.
  - (vii) The RoW shall not exceed 70m at any point of the proposed 8-lane alignment, except for the junction improvement at the intersections of the other roads.
  - (viii) Fund provisions of Rs. 20.215 Crores (@ 0.5% of the total project cost of Rs. 4043 Crore) shall be provided for Corporate Environment Responsibility (CER) as per the Ministry's O.M. No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018. The expenditure details, as per the plan, shall be submitted to the concerned Regional Office of the Ministry.
  - (ix) The proposal involves diversion of 13.219 ha of forest land, for which the proponent shall obtain the Forest Clearance as required under the forest (Conservation) Act, 1980. Project proponent shall submit an undertaking that work on non-forestry land may only be executed upto such point (to be selected by the user agency) on either side of forest land if it is explicitly certified by the user agency that in case approval under the Forest (Conservation) Act, 1980, for diversion of forest land is declined, it is technically feasible to execute the project along an alternate alignment without involving diversion of forest land. Details of all such stretches along with alternate alignment identified to bypass the forest land should be explicitly provided in the proposal seeking approval under the Forest (Conservation) Act, 1980 and the EIA Notification, 2006.
  - (x) Commencement of work in non-forest land will not confer any right on the user agency with regard to grant of approval under the Forest (Conservation) Act, 1980.

3.5	Development of Industrial Park at Nakkapalli near Nakkapalli village, Nakkapalli mandal, Visakhapatnam district in an area of 1578 Ha (3899 acres) by M/s Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC) - <b>Re-consideration for</b> <b>Terms of Reference</b>									
	[Propos	[Proposal No. IA/AP/NCP/ <b>84879</b> /2018] [F. No. 21-140/2018-IA.III]								
3.5.1	Limited	The project proponent along with the EIA consultant M/s L&T Infrastructure Engineering Limited, Hyderabad, made a presentation and provided the following information to the Committee:								
	(i)	<ul> <li>(i) The proposal is for Development of Industrial part at Nakkapalli near Nakkapalli village, Nakkapalli mandal, Visakhapatnam district in an area of 1578 Ha (3899 acres) by M/s Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC)</li> </ul>								
	(ii)									
	(iii)	i) Land use of the site and around the site up to 10 km radius: The proposed project site of Nakkapalli IP is spread an area of 1578 Ha (3899 acres) in Butchirajupeta, D L Puram, Vempadu, Chandanada, Rajayyapeta villages in Nakkapalli mandal of Visakhapatnam district in Andhra Pradesh. The site is mostly comprised of agriculture, plantation; fallow; barren, unculturable, wasteland/scrubland; water bodies and settlements located within the site.								
	The surrounding area up to 10.0 km radius land use comprises mostly Agriculture Plantation, Crop land, Aquaculture/Pisciculture, Builtup (Rural), Transportation, Mining/Industrial, Forest, Plantation, Forest-Dense, Gullied/Ravenous, Scrub land Dense, Scrub land Open, Sandy areas, Salt Affected, Lakes/Ponds, Reservoir/Tanks, River/Stream/Drain, Canal and Sea (Bay of Bengal). The existing landuse of study area i.e., 10 km radius from project site is given below:									
		S.No	Classes	Area (Ha)	Area(acres)	% of Area				
		1	Agriculture Plantation	13662.02	33759.58	24.56%				
		2	Crop land	10683.24	26398.86	19.21%				
		3	Aquaculture/Pisciculture	396.46	979.67	0.71%				
		4	Builtup (Rural)	991.98	2451.23	1.78%				

5	Transportation	151.29	373.85	0.27%
6	Mining/Industrial	261.47	646.10	0.47%
7	Forest Plantation	367.34	907.71	0.66%
8	Forest-Dense	1631.23	4030.85	2.93%
9	Gullied/Ravenous	9.66	23.86	0.02%
10	Scrub land Dense	231.33	571.62	0.42%
11	Scrub land Open	1992.83	4924.39	3.58%
12	Sandy areas	400.72	990.19	0.72%
13	Salt Affected	3.42	8.45	0.01%
14	Lakes/Ponds	172.19	425.48	0.31%
15	Reservoir/Tanks	1028.91	2542.50	1.85%
16	River/Stream/Drain	227.01	560.97	0.41%
17	Canal	156.42	386.53	0.28%
18	Sea (Bay of Bengal)	23250.82	57454.03	41.80%
	Total	55618.32	137435.88	100%

(Statistics as generated from LU/LC data of NRSC-Bhuvan: Cycle-2 [2011-12])

The existing landuse of study area i.e., 10 km radius from project site is shown below

## Major Classes:

The major land use classes in the 10km buffer of the Study Area constituting the 66.37% are:

Agriculture Plantation – 24.56%, Crop land - 19.21% and Sea (bay of Bengal) - 41.8%

#### **Minor Classes:**

The other minor land uses classes in the 10km buffer of the Project Area constituting the 14.42% are:

Scrub land Open - 3.58%;Forest-Dense - 2.93%; Reservoir/Tanks - 1.85%; Builtup (Rural) - 1.78%; Sandy areas - 0.72%; Aquaculture/Pisciculture - 0.71%; Forest Plantation - 0.66%; Mining/Industrial - 0.47%; Scrub land Dense - 0.42%; River/Stream/Drain - 0.41%; Lakes/Ponds - 0.31%; Canal - 0.28%; Transportation - 0.27%; Gullied/Ravenous - 0.02%; and Salt Affected - 0.01%

The land use breakup of project site is given below :				
S.No	Classes	Area (Ha)	Area(acres)	% of Area
1	Agriculture Plantation	742.30	1834.25	47.04%
2	Crop land	130.43	322.29	8.27%
3	Aquaculture/Piscicult ure	102.66	253.68	6.51%
4	Builtup (Rural)	46.17	114.09	2.93%
5	Scrub land Dense	230.08	568.54	14.58%
6	Scrub land Open	191.89	474.18	12.16%
7	Sandy areas	44.66	110.36	2.83%
8	Lakes/Ponds	45.48	112.39	2.88%
9	Reservoir/Tanks	13.56	33.51	0.86%
10	River/Stream/Drain	30.64	75.72	1.94%
	Total	1577.87	3899.00	100.00%

(iv) Justification for selection of the site: Andhra Pradesh is strategically located on the south eastern coast of India and is regarded as one of the largest producer of marine products in the country. The prominent industries in the state include Agro & Food-based, petroleum products, pharmaceuticals, textile, basic metals, nonmetallic mineral products, etc. Further, the state in the country has pioneered and enacted the concept of industrial single-window clearance. The policy seeks to create an investor-friendly climate by ensuring highest ease of doing business and would provide all the clearances within 21 working days. Further, the state also promises for 24 hours of uninterrupted power supply to investors setting up units.

The Visakhapatnam–Chennai Industrial Corridor (VCIC) is a key part of the planned East Coast Economic Corridor, India's first coastal corridor. VCIC is aligned with the Golden Quadrilateral and is poised to play a critical role in driving India's "Act East Policy." VCIC's long coastline and strategically located ports provide it with an opportunity to create multiple international gateways to connect India with the vibrant global production networks of South East and East Asia that form the bedrock of global manufacturing today. VCIC is aimed at fulfilling the objectives of the Government of India, Make in India Policy which aimed to promote manufacturing activities. Visakhapatnam node is one of the important nodes in VCIC. APIIC has identified four (04) nodes for development of industrial corridors,

	i.e., Visakhapatnam Node, Kakinada Node, Gannavaram- Kanikapadu Node and Yerpedu- Srikalahasti Node.
	Visakhapatnam, one of the key districts coming within the immediate influence of VCIC has all the potential to become an industrial hub. Government of Andhra Pradesh (GoAP) has embarked on major initiative of positioning Visakhapatnam district as the central hub for various sunrise sectors in an endeavour to attract investments from National and International Players across the globe.
	APIIC has identified land parcel in Visakhapatnam node at Rambilli and Nakkapalli. At Nakkpalli, about 1578 Ha (3899 acres) of land was identified at Butchirajupeta, D L Puram, Vempadu, Chandanada, Rajayyapeta villages in Nakkapalli mandal, of Visakhapatnam district for development of industrial park.
	Some of the important features of the Site making it suitable for Industrial Park are presented
	Strategically located near to four states Andhra Pradesh, Telangana, Chhattisgarh and Odisha.
	The site is located around 60 km from City of Visakhapatnam with well- endowed Social and educational infrastructure.
	The site has good access to logistic facilities. The site is well connected to the Road network in the region from Chennai - Kolkata National Highway 16 which is at a distance of ~2.9 km on North of the site.
	The nearest Railway station to the project site is at Gullipadu located at 7.2 km towards NW.
	Visakhapatnam Airport is located at a distance of 64 km towards NE. The Airport has direct flight connectivity to International destinations such as Kuala Lumpur, Singapore, Colombo, Dubai, National destinations such as Bangalore, Kolkata, Delhi,–, Hyderabad, Mumbai, Port Blair, Jagdalpur, Tirupati, Vijayawada, Ahmedabad, Bhubaneswar, Chennai, & Coimbatore.
	Gangavaram Port is located at distance of 60 km NE.
	Water and Power supply can be assured for the proposed IP will be met from the Yeleru Left Main Canal (YLMC) in line with the existing industrial water supply policy of the state. APSPDCL is responsible for undertaking distribution of Power in Visakhapatnam district.
(v)	<b>Total water requirement and its source:</b> Total water demand for the proposed IP is 18.87 MLD but considering the reuse of 540 KLD of treated sewage from the STP, the net fresh water demand is 18.4 MLD and 700 KL of fire water demand.
	The water will be sourced from the Yeleru Left Main Canal (YLMC) in line with the existing industrial water supply policy of the State located at 35 km.
(vi)	Municipal solid waste generated disposal facility: Total municipal solid waste generation is estimated at 18.5 TPD which include biodegradable and Non-bio

Degradable/Recyclable waste) and 79.5 TPD of Industrial Waste (hazardous, non-hazardous and recyclable waste).

The industrial solid waste generated daily shall be collected via trucks and transported to the landfill site. A TSDF is being proposed to be developed by APIIC for common utilisation of industrial parks developed and under development in Visakhapatnam region. This TSDF will serve requirement of Nakkapalli I.P and until it is operational, it is proposed to use JNU Pharma city TSDF. Industries shall follow Hazardous and Other Waste (Management and Transboundary Movement) and amendment thereof, 2016.

- (vii) **Waste water generation, treatment and disposal:** Industries willing to have own treatment facilities for effluent and sewage shall be developed by the industry in their premises.
  - Estimated effluent generation: ~8.575 MLD
  - Estimated sewage generation: ~0.998 MLD

Industries willing to have own treatment facilities for effluent and sewage shall be developed by the industry in their premises. If industry would like to utilise common treatment facilities, effluent of ~8.575 MLD and sewage of ~0.998 MLD generated in the industrial area will be treated together in the proposed CETP of 9.6 MLD capacity. The treated wastewater will be disposed into sea through marine outfall facility. CETP will be developed on modular basis based on industrial wastewater generation. The sewage from residential areas will be treated in STP of 675 KLD capacity which will be developed on modular basis. Treated sewage will be reused for greenbelt and toilet flushing etc

- (viii) **Rain Water Harvesting:** Nakkapalli IP 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.
- (ix) Water bodies, diversion if any: There is a backwater/stream flowing within the site and a buffer of 100 m or width of the creek as per CRZ regulation is proposed and green areas will be developed in the buffer area. Major part of the stream is less than 100m width. As the stream width reduces, buffer equal to the width of the stream is proposed.

Adequate landscaped green spaces/buffers will be provided near water bodies.

(x) **Tree cutting, types, numbers, girth size etc.:** The site is comprised of agriculture plantation, aquaculture, scrubland, dense scrub land on hills, water bodies and settlements are located within the site. The following are the type of trees within site. Clearance of these trees is envisaged.

Scientific Name	Local Name
Borassus flabellifer	Thaadi

	Coco snucifera	Kobbari
	Wrightia tinctoria	Ankudu
	Annona squamosa	Seethaphal
	Anacardium occidentale	Jeedimamidi
	Acacia auriculiformis	Australia Tumma
	Eucalyptus globulus	Neelagirichettu
	Phoenix sylvestris	Eetha
	Casuarina equisetifolia	Sarugudu
	Mangifera indica	Mango
1		

- (xi) **If the project involves diversion of forest land, extend of the forest land:** No forest area is involved.
- (xii) Rehabilitation involved, if any: About 1578 Ha (3899 acres) of land was identified at Butchirajupeta, D.L. Puram, Vempadu, Chandanada, Rajayyapeta villages in Nakkapalli mandal. APIIC is in the possession of 3096 acres as on date. The balance land is under progress of acquisition. The following is the list of villages falling in Nakkapalli project site.

village	Settlements
	Buchchirajupeta
Butchirajupeta	Nallamattipalem
	Kotha Chandanada
Donivani Lakshmipuram	Vadapeta
Vempadu	Mulapara
	Chandanada
Chandanada	Patimida
	Tammayyapeta
Dejouvenete	<ul> <li>Rajayyapeta</li> </ul>
Rajayyapeta	Boyapadu

These villages contain some settlements. Settlements falling in Nakkapalli Site Boundary. No resettlement will be taken up to the existing settlements, however Scattered dwellings will be relocated into the residential area proposed. An

	adequate green buffer and existing settlements which		etwork will be provided to the site.
(xiii)	· •	ct site is relatively flat	of filling, if any: The existing and gentle. Existing ground
		-	n in the site. However, excess ed quarry and details will be
(xiv)	CETP:		
	Type of effluent, Quantity, effluent conveyance system from	•	own treatment facilities for I be developed by the industry
	the member units to CETP	Estimated effluent g	eneration: ~8.575 MLD
	Treatment and usage of	Estimated sewage g	eneration: ~0.998 MLD
	treated sewage	facilities, effluent of ~ ~0.998MLD generated combinedly treated in capacity. The treated wa sea through marine of developed on modular wastewater generation. areas will be treated in S	to utilise common treatment 8.575 MLD and sewage of in the industrial area will be proposed CETP of 9.6 MLD astewater will be disposed into utfall facility. CETP will be basis based on industrial The sewage from residential TP of 675 KLD capacity which lular basis. Treated sewage will and toilet flushing etc
(xv)	Whether the project is in	Critically Polluted area	a: No.
() = -!)	National Park/ Wild Life S	anctuary in 10 km rad	iue eree. Not Applicable
(xvi)		•	ius area: Not Applicable.
(xvi) (xvii)		0 km of eco- sensitive a the project site: Not a	area, Name of eco- sensitive
	area and distance from	0 km of eco- sensitive a the project site: Not a	area, Name of eco- sensitive Applicable. Following reserve
. ,	area and distance from forests are located within 1	0 km of eco- sensitive a the project site: Not a	area, Name of eco- sensitive
. ,	area and distance from forests are located within 1 Reserve Forests (RF)	0 km of eco- sensitive a the project site: Not 7 0.km radius area. Adjacent	area, Name of eco- sensitive
. ,	area and distance from forests are located within 1 Reserve Forests (RF) Rajayyapeta R.F	0 km of eco- sensitive a the project site: Not 7 0.km radius area. Adjacent	area, Name of eco- sensitive
	area and distance from forests are located within 1 Reserve Forests (RF) Rajayyapeta R.F DonivaniLakshmipuram R.F	0 km of eco- sensitive the project site: Not / 0.km radius area. Adjacent Adjacent	area, Name of eco- sensitive
. ,	area and distance from forests are located within 1 Reserve Forests (RF) Rajayyapeta R.F DonivaniLakshmipuram R.F Vempadu R.F	0 km of eco- sensitive a the project site: Not / 0.km radius area. Adjacent Adjacent 1.6 km; NW	area, Name of eco- sensitive
. ,	area and distance from forests are located within 1 Reserve Forests (RF) Rajayyapeta R.F DonivaniLakshmipuram R.F Vempadu R.F Payakaraopeta R.F	0 km of eco- sensitive a the project site: Not / 0.km radius area. Adjacent Adjacent 1.6 km; NW 8.4 km; N	area, Name of eco- sensitiv

The water bodies located are Bay of Bengal – Abutting and TandavaNadi – 6.5 km; W

- (xviii) Investment/Cost of the project: INR 1191 Crore.
- (xix) **Employment potential:** Direct employment of about 30,800 and 2.5 times of direct employment as indirect employment will be generated during construction and during operation phases respectively, thereby opening up employment opportunities for the youth in the catchment region.

## (xx) Benefits of the project:

- The total estimated manufacturing industry output in 25 years after the complete industrial plotted land is absorbed and all the industrial units commence production, is about Rs. 1 lakh Crores.
- Proposed Park is likely to generate direct and indirect employment potential of about 30,800 respectively, thereby opening up employment opportunities for the youth in the catchment region.
- 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 Social Responsibility (CSR) 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.
- 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.
- Overall economic growth of Visakhapatnam district, in particular and State of Andhra Pradesh and Nation in general.
- The proposed project is in Visakhapatnam–Chennai Industrial Corridor (VCIC), is a key part of the East Coast Economic Corridor (ECEC), India's first coastal corridor Its development which is in line with the National/State objective of improving manufacturing GDP, promoting port-led industrialization etc.,

#### (xxi) If any court case pending for violation of the environmental laws: No.

3.5.2 During detailed deliberations, in 204<sup>th</sup> meeting of EAC (Infra-1), held on 17<sup>th</sup> December, 2018, it was observed that as Pharma units are proposed in this project as well as other projects. Therefore, proponent was advised to have appropriate planning within the state so that pharma units are not spread over in various industrial areas, rather put them at one place. Sufficient buffer is needed between inhabited areas and proposed industrial area. In view of above, the EAC deferred the proposal.

3.5.3	with the	211 <sup>th</sup> meeting of EC(Infra-1) held on 27 <sup>th</sup> March, 2019, the project proponent along e EIA consultant M/s L&T Infrastructure Engineering Limited, Hyderabad, has made entation and provided following information to the Committee:
	(i)	The industries to be housed within the proposed Industrial Area include the Pharmaceuticals, Chemicals and Petrochemicals, Industrial and Consumer Electronics, Auto and Auto components, Aerospace and defence, Light and heavy Engineering, CRZ permissible hazardous material storages, Building Materials Industry/Non Metallic minerals, MSME, Plastics, Food and Agro Processing Industry, Textile and Apparel manufacturing.
	(ii)	The area coverage of the pharma and chemical units is reduced from 20% to 11.5% of proposed industrial area.
	(iii)	Green buffer of 50 m is provided all around settlements.
	(iv)	The pharma and chemical units will be located 500 m away from the settlements. Non-pharma and chemical units will be located between the 50 m buffer and 500 m distance.
	(v)	Green belt is 18% of proposed industrial area. Rest of the green cover shall be developed by the individual industries.
3.5.4		detailed deliberations during 211 <sup>th</sup> meeting of EC(Infra-1), the EAC has made ng observations:
	(i)	The project also involves the CRZ Clearance.
	(ii)	Whether the proponent has made any efforts for preparing the 'Zoning Atlas of Industries' as desired by EAC(Infra-1) in its 204 <sup>th</sup> meeting of EAC (Infra-1), held on 17 <sup>th</sup> December, 2018. If so, the details may be submitted to the MoEFCC.
	(iii)	The Pharma/chemical units are scattered at 5 locations within the proposed Industrial Area. The EAC has suggested to keep all of them at one place.
	(iv)	There is no proposal for establishing Environmental Cell by the proponent.
	(v)	The Ramkey TSDF facility is located nearby the proposed TSDF facility.
	(vi)	CRZ area is 5.76% of proposed industrial area. Creek area is very important. This area should be disturbance free and no activity should be permitted in area between sea and creek.
	(vii)	The area between 50 m and 500 m from the settlements should not be used for establishing red category (as per CPCB classification) industries.
	(viii)	Not provided the details of Corporate Environment Responsibility (CER) budget.
3.5.5	The proposal was considered in the 211 <sup>th</sup> EAC meeting held on 27 <sup>th</sup> March 2019. The EAC after detailed deliberation <b>recommended</b> the project for grant of <b>Terms of Reference (ToR)</b> , and for preparation of EIA/EMP report with public consultations subject	

	1	a line and all search the second Condition that a first base by the Discourse building to the second second sec
		pliance of all conditions as notified in the standard ToR applicable for such projects ecific conditions, as mentioned below:
	(i)	The PP has to seek CRZ Clearance also, as per provisions contained in the CRZ Notification 2011 and subsequent amendments, if any.
	(ii)	The creek areas are to be protected and the location of Pharma and Petro- chemical industries adjacent to the creek are to be relocated so that the creek is not disturbed.
	(iii)	No activity shall be permitted in area between sea and creek.
	(iv)	Proponent shall prepare the Zoning Atlas so that the polluting industries including Pharma/Chemical units are not scattered all over the region.
	(v)	Proponent to indicate the details of type of Pharma and Petro-chemical industries proposed to be setup. Clustering of Pharma and Petro-chemical industries for separate CETP to be worked out.
	(vi)	No Pharma, Chemical and Petro-chemical units shall be established within 500 m of the existing settlements within the proposed industrial area.
	(vii)	Non-pharma, non-chemical and non-Petro-chemical industries shall be established between 50 m and 500 m from the settlements.
	(∨iii)	No red category industries (as per CPCB classification) shall be established between 50 m and 500 m from the settlements within the proposed industrial area.
	(ix)	The planned Pharma, Chemical and Petro-chemical units shall not exceed 11.5% of total industrial area as proposed.
	(x)	All existing waterbodies should be protected.
	(xi)	No extraction of the groundwater shall be undertaken. Water allocation letter to be submitted for use of water from Yeleru Left Main Canal (YLMC).
	(xii)	Proponent shall establish an Environmental Cell specifically for the proposed industrial area.
	(xiii)	The proposed TSDF facility shall be used for captive purposes only.
	(xiv)	The activities and budget earmarked for Corporate Environmental Responsibility (CER) shall be as per ministry's O.M No 22-65/2017-IA.II (M) 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.
	(xv)	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.
3.5.6		oponent, vide their letter no. GM/EMP/APIIC/IP-Nakkapalli/EC/2017 dated 23 <sup>rd</sup> 019, has requested to amend the specific conditions mentioned in point no. (iii) and

S. No.	Clauses as recommended by EAC in its 211 <sup>th</sup> meeting on 27 <sup>th</sup> March, 2019	Requested amendment by the proponen
1.	(iii) No activity shall be permitted in area between sea and creek.	Industries other than Pharma and Chemica may be developed between creek an project boundary.
2.	(viii) No red category industries (as per CPCB classification) shall be established between 50m and 500m from the settlements within the proposed industrial area.	To allow red categories industries other that Chemical and Pharma units beyond 50m up to 500m from the settlements within the proposed industrial area.

3.5.7 The proposal was reconsidered in the 215<sup>th</sup> EAC meeting held on 20<sup>th</sup> May, 2019. By considering the proponent's point of view, the EAC revisited its earlier decision and suggested proponent to prepare a list of Orange, Green and White categories of industries, which may be permitted in area between sea and creek as well as within the 250 m from the settlement. Accordingly, proponent has submitted the revised list of industries vide their letter no. GM/EMP/APIIC/IP-Nakkapalli/EC/2017 dated 20<sup>th</sup>May, 2019, given as under:

	(i)	Industries permitted in area between sea and creek.
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Sector	Anticipated Types of Industrial/Activities
Industrial and Consumer Electronics	Medical equipment, defense electronics, control equipments. Solar panels and module. Communication Equipment. Consumer Electronics Electronic Components Industrial Electronics
Auto components	Assembly of auto components & ware housing
Packaging	Plastic packaging, wood/paper packaging etc.

Industries proposed within	Industries proposed within	Industries proposed
50m–250m from settlement	250m–500m from	within Beyond 500m from
(orange, green and white	settlement	settlement
category)	(red category)	(red category)
<ol> <li>Industrial and consumer electronics</li> <li>Auto components</li> <li>Aero space and defence – R&amp;D</li> <li>Aero engine components, communication devices</li> <li>MSME (Leather Products such as Sports goods excluding tanning and hide processing Plastic products for Packaging, automobile, consumer durables, healthcare by injection, :low Moulding, Extrusion etc., Timber/Wood Products such as Furniture, Sports goods, Wood Flooring)</li> </ol>	<ol> <li>Engineering (light and heavy engineering)</li> <li>Building Materials Industry/Non Metalic minerals (processed minerals, Clay building products, bricks, AAC Blocks, Kerbs Stones)</li> <li>Food and Agro Processing Industry</li> <li>Automobile manufacturing</li> <li>Aerospace and defence</li> </ol>	<ol> <li>Pharmaceuticals</li> <li>Chemical</li> <li>Petrochemical</li> <li>Tiles, Ceramics and refractories, glass and glassware, graphite marbles</li> </ol>

Reference Section of MoM of 211 <sup>th</sup> meeting on 27.03.2019	Conditions for Environmental Clearance (as mentioned in MoM of 211 <sup>th</sup> meeting on 27.03.2019)	EAC's Recommendation during 215 <sup>th</sup> meeting of EAC held 20 <sup>th</sup> May, 2019		
3.3.5(iii)	No activity shall be permitted in area	Sector	Anticipated Types of Industrial/Activiti	
	between sea and creek	Industrial and Consumer	Medical equipment, defense electronic control equipment.	
		Electronics	Solar panels and module.	
			Communication Equipment.	
			Consumer Electronics	
			Electronic Components	
			Industrial Electronics	
		Auto components	Assembly of auto components & wa housing	
		Packaging	Plastic packaging, wood/paper packagi etc.	

	3.3.5(viii)	No red category industries (as per			
		CPCB classification) shall be established	Industries proposed within 50m–250m from settlement	Industries proposed within 250m–500m from settlement	Industries proposed within Beyond 500m from settlement
		between 50 m and 500 m from the settlements within	(orange, green and white category)	(red category)	(red category)
		the proposed industrial area.	<ul> <li>-Industrial and consumer electronics</li> <li>Auto components</li> <li>Aero space and defense – R&amp;D</li> <li>Aero engine components, communication devices</li> <li>MSME (Leather Products such as Sports goods excluding tanning and hide processing Plastic products for Packaging, automobile, consumer durables, healthcare by injection, low Moulding, Extrusion, Timber/Wood Products such as Furniture, Sports goods, Wood Flooring)</li> </ul>	<ul> <li>Engineering (light and heavy engineering)</li> <li>Building Materials Industry/Non Metalic minerals (processed minerals, Clay building products, bricks, AAC Blocks, Kerbs Stones)</li> <li>Food and Agro Processing Industry</li> <li>Automobile manufacturing</li> <li>Aerospace and defense</li> </ul>	<ul> <li>Pharmaceuticals</li> <li>Chemical</li> <li>Petrochemical</li> <li>Tiles, Ceramics and refractories, glass and glassware, graphite, marbles</li> </ul>
3.6	Construction of 4/6 lane road (NH-754K) from Raisar, Bikaner (km 0.000) to Deogarh, Jodhour (km 180.000) in the state of Rajasthan, part of Amritsar to Kandla Expressway under Bharatmala Pariyojana by M/s National Highways Authority of India - <b>Re- consideration for Environmental Clearance</b> [Proposal No. IA/RJ/NCP/ <b>94368</b> /2019][F. No. 10-63/2018-IA.III ]				
3.6.1	Engineering		with the EIA consinational, made a pre		-
	• • •	· · ·	et is a new 4/6 lane National Highway (NH-754K) connecting strict to Deogarh in Jodhpur district, Rajasthan. The proposed		

alignment is a 175.758 km long and lies in North-West region of Rajasthan. The alignment terminates on NH-125 at Deogarh, which is near Jodhpur.

- (ii) **Location:** Project Area falls in Bikaner and Jodhpur district of western Rajasthan State.
- (iii) Land use of the site and around the site up to 10 km radius: The land use pattern on 10 km either side of the project road is predominately agriculture followed by fallow, wastelands and few habitations. The proposed project neither passes through any protected area i.e. wildlife sanctuary, national park, conserve reserve, nor falls within 10 km boundary.
- (iv) Land Acquisition and Proposed RoW: The proposed land acquisition for the proposed alignment is approx. 1394.68 ha and the proposed RoW of the project 70m green field.
- (v) Total water requirement and its source: Total requirement of water for the construction is estimated 1000 KLD which will be taken from IGNP canal and ground water sources.
- (vi) Municipal Waste (domestic and or commercial wastes): Construction Phase Domestic Waste shall be generated from temporary construction camps @ grams per head per day. The solid waste will be disposed as per Solid Waste Management Rules, 2016. Operation Phase Domestic Waste be produced from commercial establishment will be disposed off at municipal waste disposal site. Solid waste will be generated during operation phase from way side amenities and will be handled as per established rules.
- (vii) Hazardous Waste (as per Hazardous Waste Management Rules): Used/Waste oil and lubricants will be utilized in oiling shuttering and remaining balance will be sold to authorized recyclers. The hazardous waste (management, handling & transboundary movement) rules, 2018 and its amendments till date will be followed.
- (viii) **Water bodies, diversion if any:** The proposed road alignment crosses IGNP canal only at km 145.
- (ix) **If the project involves diversion of forest land, extend of the forest land:** The Proposed Project does not involve any diversion of forest land.

Approx 5 m wide area for whole project length on either side is reserve for new plantation.

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

**Species Wise Details** 

Name of Tree	Number
Khejri	3600

(vi) Behabilitation involved if any Ta		
Total	9000	
Others	2070	
Neem	1080	
Rohida	900	
Babul	1350	

- (xi) Rehabilitation involved if any: Total 396 no. of structures will be affected due to proposed road. The NHAI shall compensate the affected title holder as per NHAI Act 1956.
- (xii) Whether the project is in Critically Polluted area: No
- (xiii) National Park/ Wild Life Sanctuary in 10 km radius area & Eco-Sensitive Zone in 10 km radius area: The proposed project neither passes through any protected area i.e. wildlife sanctuary, national park, conserve reserve, nor falls within 10 km boundary.
- (xiv) **Parking requirement with provision made**: Parking is provided 105 nos. of four wheeler vehicles and 420 nos. of two wheeler vehicles.
- (xv) Investment/Cost of the project: INR 3000 Crores (approx.)
- (xvi) Benefits of the project:
  - It will Improve the basic facilities for international trade via road transportation;
  - It will provide connectivity for the remote areas existed in western Rajasthan, North-West Gujarat and southern part of Punjab with main stream of development.
  - It is an economic corridor which provides direct and quick excess from Amritsar to Kandla Port for export and import of goods.
  - It will decrease the travelling time taken in the present route and provide cost effective benefits to the farmers and industries.
  - It will provide better road connectivity to Punjab, Haryana, Rajasthan and Gujarat.
  - It will create direct and indirect employment in western Rajasthan where resources are very less for live hood.
  - It will play vital role to bust up the economy and economic growth rate of locality, States, and Nation also.
- (xvii) **Employment potential:** Total 2,78,100 jobs during construction period (3 years) and about 2,70,000 jobs during maintenance period (10-15 years).

	(xviii)	viii) <b>ToR Details</b> : The ToR for the project was accorded vide letter No.10-63/2018- IA.III dated 4 <sup>th</sup> January, 2019.						
	(xix) <b>Public Hearing:</b> Public Hearing was conducted at:							
	• 29 <sup>th</sup> January, 2019 at Govt. Sec. School Sirmandi, Jodhpur.							
	• 30 <sup>th</sup> January, 2019 at Collectorate Office, Bikaner							
	1	ublic hearing and response of project proponent a	are:					
		Major Issues	Respond from NHAI					
		Public Hearing at Sirmandi Jo	odhpur					
		Related to tree cutting, low survival rate of new planting trees, mitigation measures for minimization of adverse impact of dust particulates on locality, compensation for land acquisition, safety of cattle's during operation phase etc.	NHAI has responded for adopting tree species which are resistant against hot & dry climatic conditions, adopting adequate measures to control dust particulates, proper compensation of land as per rules, barricading of highway to check the access of animal for whole length except the locations of underpasses, overpasses, cross drainage structures, junction etc.					
	Public Hearing at Bikaner							
	period for tree to be planted minimum 3 along the corridor, what kind planted tree of measures to be adopted of barricad		NHAI has responded for adopting minimum 3 year of maintenance for newly planted trees along the corridor, provision of barricading, box culverts and under passes at adequate distance etc.					
	(xx)	If any court case pending for	r violation of the environmental laws: No.					
3.6.2		e proponent along with the EIA consultant made presentation before EAC during its <sup>8th</sup> meeting held on 19-20 February, 2019. The observations of EAC are as under:						
	(i)	Cumulative Impact Assessment will be carried after completion of EIA study of al parts under Economic corridor (NH-754k).The actual length of alignment is 175.758 km						
	(ii)	•	animal corridors within 10 km radius of propos llife Warden is under progress.	sed				
	(iii) 1000 KLD Water for construction will be taken from canal and ground wa sources. The water will be extracted after permission of the concerned authorit							

	(iv)	The proposed alignment is passing through open area where comparatively less number of trees are existed. Permission for tree cutting from District Collector (Bikaner &Jodhpur) is under progress.
	(v)	There is no forest diversion involved in this project.
	(vi)	Approx. 9000 trees fall within the proposed project corridor. Relocating the existing trees will be taken as far as possible.
	(vii)	Approx. 90000 trees will be planted within available space along the proposed corridor alignment for better green belt development.
Minor bridges are proposed on both crossing Adequate measure will be followed at time of con- Fencing, stone pitching gabion wall etc. are prop		There are only one rainy season Nala at km 156 and one canal crossing at km 145. Minor bridges are proposed on both crossing to avoid any adverse impacts. Adequate measure will be followed at time of construction near these crossings.Silt Fencing, stone pitching gabion wall etc. are proposed to prevent sedimentation in canal water.
	(ix)	The Estimated EMP cost is 30.60. Crores, which is exclusive of CER.
	(x)	The CER budget is Rs. 15.53 Crores.
3.6.3	2019 to sul speci	EAC, after detailed deliberations during 208 <sup>th</sup> meeting held on 19-20 February, , <b>recommended the project for grant of Environmental Clearance</b> , subject bmission of certificate as mentioned at point no. (i) below and with the following ific conditions in addition to all standard conditions applicable for such projects:
	(i)	In compliance to the submission of the proponent, a certificate from Chief Wildlife Warden stating that no Protected Area or Wildlife Corridor falls within the 10 km radius of the proposed alignment shall be submitted to the Ministry.
	(ii)	No ground water to be used for the project as the ground water quality is saline at depths. Only surface water to be used for IGNP (Indira Gandhi Nahar Pariyojana). Approval/permission of concerned authority shall be obtained before drawing surface water from the irrigation canal. State Pollution Control Board (SPCB) concerned shall not issue Consent to operate (CTO) till the project proponent obtains such permission.
	(iii)	The proponent shall obtain permission from the competent authorities for tree cutting along the proposed alignment. A comprehensive plan for afforestation including minimum three times plantation by native species shall be provided.
	(iv)	Relocating the existing trees shall be taken as far as possible. As committed, not less than 90000 trees shall be planted within available space along the proposed corridor alignment for better green belt development.
	(v)	Silt fencing, stone pitching gabion wall etc. shall be constructed to prevent sedimentation in canal water and crossings. Adequate measure shall be followed at time of construction near these crossings.
	(vi)	The RoW shall not exceed 70m at any point of the proposed 8-lane alignment,

	except for the junction improvement at the intersections of the other roads.
	(vii) The fund provisions provided for CER i.e. Rs. 15.53 crores, the expenditure details as per the plan shall be submitted to the concerned Regional Office of the Ministry.
	(viii) The recommendations of Cumulative Impact Assessment shall be implemented under intimation to the Ministry and its Regional Office concerned.
3.6.4	The EAC members have received a complaint from the EIA Consultant M/s Global Management and Engineers Consultants wherein it is mentioned that Proponent has done a presentation before EAC in illegal manner for obtaining Environmental Clearance for the said project during 208 <sup>th</sup> meeting of EAC held on 19 <sup>th</sup> February 2019.
	The EAC (Infra-1) discussed the matter in its 214 <sup>th</sup> meeting held on 26 <sup>th</sup> April, 2019, and noted the seriousness of the nature of the complaint and it was decided that further discussion/decision on this matter will be done after receiving the comments/clarification from NHAI in the upcoming meeting of EAC in the month of May 2019.
3.6.5	The EAC discussed the matter vis-à-vis the complaint during its 215 <sup>th</sup> meeting held on 20 <sup>th</sup> May, 2019, wherein Dr. Meena Bhaduri, EIA coordinator from M/s GNECI, Jaipur, Shri S.K. Mishra, Project Director (Jodhpur) and Dr. Biswajit Mukhopadhay GM(Environment) from NHAI appeared before the EAC.
	The EAC observed the following points:
	(i) M/s GMECI, Jaipur, vide their letter dated 8 <sup>th</sup> April, 2019 and their email dated 8 <sup>th</sup> April, 2019, has submitted that proponent has done a presentation before the EAC, during 208 <sup>th</sup> meeting of EAC held on 19 <sup>th</sup> February 2019 in illegal manner for obtaining Environmental Clearance for the said project. Following allegations were made by M/s GMECI, Jaipur on NHAI:
	<ul> <li>According to the complaint, none of their representatives had attended the said meeting held on 19-20 February, 2019.</li> </ul>
	b) The disclosure of consultant and list of experts etc., as given in the EIA report, are actually taken from the website/internet.
	c) Forged documents were submitted online and presented before the EAC.
	<ul> <li>d) Experts, whose names have been mentioned in the EIA Report, have already left the company (M/s GMECI, Jaipur).</li> </ul>
	(ii) A letter was sent from Joint Secretary, MOEF&CC to Chairman, NHAI seeking clarification on these issues.
	(iii) Further, M/s GMECI, Jaipur submitted a letter dated 27 <sup>th</sup> April, 2019 to the Ministry informing that they have sent above mentioned complaint letter dated 8 <sup>th</sup> April, 2019 and some other person/organisation has used their letter head for sending forged letter. They further submitted that M/s GMECI, Jaipur has been associated

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		as Environmental Consultant after an agreement with M/s Pentacle in association with M/s Jhunjhunu Engineers Private Limited, the DPR Consultant for the said project. They also informed that the draft EIA, final EIA and made presentation on 19 <sup>th</sup> February, 2019 before EAC in its 208 <sup>th</sup> meeting.
	(iv)	In response, Member (Project), NHAI, vide letter No. NHAI/Bharatmala/DPR/Lot- 4/Package-6/2017/135024 dated 16 <sup>th</sup> May, 2019,has sent a letter stating that as per report received from field units, the entire work has been carried out M/s GMECI, Jaipur. This has been confirmed by M/s GMECI, vide their letter dated 27 <sup>th</sup> April, 2019, Jaipur.
	(v)	Proponent has submitted following documents:
		a) Copy of work order/MOU stating that M/s Jhunjhunu Engineers Private Limited, Jiapur has awarded the consultancy work to M/s Global Management and Engineering Consultants International (GMECI), Jaipur, for preparation of EIA report and Forest proposal uploading at the cost of Rs. 2.36 Lakh only.
		<ul> <li>b) Copy of Certificate of Accreditation by QCI/NABET in favour of M/s GMECI, Jaipur, valid up to 3<sup>rd</sup> February, 2019.</li> </ul>
		c) Extension of validity of Accreditation by QCI/NABET in favour of M/s GMECI, Jaipur up to 25 <sup>th</sup> March, 2019.
		<ul> <li>d) Copy of declaration by consultants/experts contributing to the EIA/EMP studies for the said project.</li> </ul>
		e) Proof of site visit by EIA consultant in the form of a cash receipt for vehicle hire/toll plaza and field photographs.
3.6.6		detailed deliberations during the 215 <sup>th</sup> meeting on 20 <sup>th</sup> May, 2019, EAC has following rvations:
	(i)	Since neither the consultant nor his authorized representative was present during the EAC meeting on 19 <sup>th</sup> February, 2019, the presentation was illegal.
	(ii)	The response from NHAI is based on the inputs from M/s GMECI, Jaipur only. NHAI should have conducted detailed enquiry in this matter before sending any response to the Ministry.
	(iii)	The complaint letter dated 8 <sup>th</sup> April, 2019 was signed by Shri Vinod Saharan, CEO, M/s GMECI, Jaipur. The same complaint was also sent to this Ministry through his email id. <u>saharan@gmecinternational.com</u> on 8 <sup>th</sup> April, 2019. Shri Saharan has also signed the disclosure of consultants as well as the letter dated 27 <sup>th</sup> April, 2019, stating that the complaint letter was not sent by them.
	(iv)	The EAC members have seen the signature on the letter and prima facie of the opinion that the signatures have been done by one person using pen and that it does not seem to have scanned. There seems no sign of forgery.

	(v)	Shri Vinod Saharan, CEO, M/s GMECI, Jaipur did not attend the EAC meeting. However, M/s GMECI was represented by EIA Coordinator, Dr. Meena Bhaduri.		
	(vi)	The EIA Coordinator has also admitted that she did not attend the Public Hearing.		
	(vii)	The EIA Coordinator has admitted that she was not present before EAC during presentation on 19 February, 2019 due to health reasons.		
	(viii) As per attendance record of the 208 <sup>th</sup> EAC meeting held on 19 February, 2 said proposal was defended by the Project Director, NHAI, Jodhpur consultants namely Dr. Mahavir P. Saini and Yaqub Ali Sheikh.			
	(ix)	It is worth mentioning that the copy of work order/MOU, signed between M/s Jhunjhunu Engineers Private Limited, Jiapur and M/s GMECI, Jaipur, does not mentioned the date of agreement.		
3.6.7	7 After detailed deliberations, EAC recommended the following:			
	(i) NHAI shall conduct detailed investigation in this matter and submit rep Ministry.			
	(ii)	MoEFCC may initiate independent enquiry in the matter, if required.		
	(iii)	Before reaching to any decision, EAC also seeks comments of QCI/NABET regarding involvement of EIA Coordinator and other Functional Area Experts of M/s GMECI, Jaipur, in preparation of EIA/EMP report for the said project.		
	(iv)	Recommendations of EAC in its 208 <sup>th</sup> Meeting on 19-20 February, 2019, regarding grant of EC to this project may kept on hold and remain suspended till the enquiry report is received and a decision is taken in this regard.		

List of the Members attended 215<sup>th</sup> meeting of Expert Appraisal Committee for Projects related to Infrastructure Development, Industrial Estate and Miscellaneous projects held on 20<sup>th</sup> May, 2019 and approved the above minutes.

SI. No.	Name of the EAC member	Role/Designation	Signature
1	Dr. Deepak Arun Apte, Director, Bombay Natural History Society (BNHS), Mumbai	Chairman	M
2	Dr. V.K. Jain, Professor of Chemistry, School of Sciences, Gujarat University, Ahmedabad	Member	- Ofe
3	Dr. M.V. Ramana Murthy, Project Director, NIOT Campus, Pallikarai, Chennai	Member	
4	Shri T.P Singh, Advisor, MEITY, New Delhi	Member	
5	Dr. N.K. Verma, Former AD, CPCB, New Delhi	Member	Allenen .
6	Dr. Manoranjan Hota Former Advisor/Scientist-G, MoEF&CC	Member	N. O
7	Dr. Anil Kumar Singh, IFS (Retd), Ex PCCF Assam, Tower F, Float No. 103 Grand Anjara Heritage, Sector 74, Noida, UP	Member	AS
8	Shri Prabhakar Singh, Consist DG, CPWD, Delhi.	Member	A 20.5.2019
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 Garhwarl Central University, Srinagar,	Member	
11	Dr.Anuradha Shukla, Central Road Research Institute (CRRI), Mathura Road, New Delhi	Member	Houde.
12	Shri N.K. Gupta, Member (EAC), Scientist E & In-charge (ESS), Central Pollution Control Board,	Member	0
13	Dr. D. Chakraborty, Scientist MoWR, RD & GR, New Delhi	Member	Dugg
14	Smt. Bindu Manghat ,Director Survey of India New Delhi	Member	
15	MoEF&CC	Member Secretary (Infra-1 EAC)	Reema
16	Shri Ashish Kumar, Joint Director, IA-III, MoEF&CC	Special Invitee	Ashith