

**201<sup>st</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 1<sup>st</sup> November, 2018 at Indira Paryavaran Bhawan, Ministry of Environment, Forest and Climate Change, Jor Bagh Road, New Delhi.**

**Time: 10:00 AM**

1. Opening remarks of the Chairman.
2. Confirmation of the minutes of the 199<sup>th</sup> meeting held on 15<sup>th</sup> October, 2018 in the Indira Paryavaran Bhawan, Ministry of Environment, Forest and Climate Change, Jor Bagh Road, New Delhi.
3. Consideration of Proposals:

3.1	<p><b>Expansion of notified Multi-product SEZ by adding 1840 Ha notified SEZ with existing approved area of 6641.2784 ha. to make it 8481.2784 ha at Mundra by M/s Adani Ports and Special Economic Zone Ltd. - Further consideration for Environmental and CRZ Clearance.</b></p> <p><b>[Proposal No. IA/GJ/MIS/75351/2018] [F. No. 10-138/2008-IA.III]</b></p>
3.1.1	<p>The proposal for amendment was first considered during 191<sup>st</sup> meeting of EAC. The details of the proposal, as per the documents submitted by the project proponent and also as informed during the above said EAC meeting along with EIA Consultant M/s Aditya Environmental Services Private Limited, Mumbai, are reported to be as under:</p> <ol style="list-style-type: none"> <li>(i) Expansion of notified Multi-product SEZ by adding 1840 ha notified SEZ with existing approved area of 6641.2784 ha to make it 8481.2784 ha at Mundra by APSEZ. The project is located in Village Mundra, Tehsil Mundra, District Kutch, Gujarat.</li> <li>(ii) The proposed project envisages addition of 1840 ha notified SEZ in existing approved area of 6641.2784 ha to make it 8481.2784 ha. (i.e. expansion proposal). 1840 ha land proposed for the project is diverted for development of SEZ by MoCI vide their Notification dated 11.12.2015.</li> <li>(iii) Facilities like Processing Zones, Non-processing Zones, Warehousing Zones, Road Network (Trunk as well as Internal), Bridges or Culverts over natural drain, Rail Network, IT-Telecommunication Network, Electric Network, Water Supply, Conservation &amp; Drainage Network, Effluent Collection Network and Utilities &amp; Supporting Infrastructure will be developed within the proposed project area.</li> <li>(iv) <b>Whether the project is in a Critically Polluted Area:</b> No</li> <li>(v) <b>Details of Tor and EC issued under EIA Notification, 2006:</b> ToR was issued on 31<sup>st</sup> March, 2009. Public Hearing was conducted on 5<sup>th</sup> October, 2010 at Ganesh temple, Luni, Mundra, Kachchh, Gujarat. Major issues include Legal status of land and location of the project site, blockage of creeks/CRZ area, destruction of vegetation including mangroves, effects on fishermen livelihood, effects on agriculture/farmers/animal husbandry,</li> </ol>

	<p>possibility of environmental pollution, environmental monitoring, and employment generation.</p> <p>The Expert Appraisal Committee considered the proposal in its meetings dated 16th April, 2012 (111th meeting), 4th June, 2012 (113th meeting) and 9th July, 2012 (114th meeting) and recommended for the grant of EC &amp; CRZ clearance to Multi-product SEZ spread over an area of 8481.2784 ha. However, the Ministry issued EC for 6481.2784 ha only after reducing 1840 ha, vide letter no. 10-138/2008-IA.III dated 15<sup>th</sup> July, 2018.</p> <p>(vi) <b>If the Project involves diversion of forest land:</b> Forest Clearance for the proposed project area, i.e., 1840 ha was obtained vide MoEF&amp;CC's letter No. 8-2/1999-FC (pt.) dated 30th September, 2009.</p> <p>(vii) <b>If the project falls within 10 km of eco-sensitive zone:</b> Not applicable as there is no eco-sensitive area within 10 km of the project site.</p> <p>(viii) <b>Water requirement, source, status of clearance:</b> Water requirement for the proposed project will be to the tune of 95 MLD. Source of water will be desalination plant / Narmada water supplied through APSEZ's utility division. Requisite permissions for the desalination plant are already obtained by APSEZ. No groundwater will be extracted for the proposed project.</p> <p>(ix) <b>Waste water quantity, treatment capacity detail:</b> Sewage and effluent generated will be treated in decentralized STPs (total capacity of 62 MLD) and decentralized CETPs (total capacity of 67 MLD) respectively. Permissions for mentioned capacities of STP and CETP are already obtained as part of the EC and CRZ clearance for the existing Multi-product SEZ project (6641.2784 ha).</p> <p>(x) <b>Recycling / reuse of treated water and disposal:</b> Treated water will be utilized for development of greenbelt within the project site.</p> <p>(xi) <b>Solid waste management:</b> Municipal wastes in the form of canteen wastes will be converted to manure. Other solid wastes such as papers, plastic, cardboard etc. will be segregated and send to authorised recyclers. Disposal of municipal solid waste will be carried out as per prevailing norms.</p> <p>(xii) <b>Hazardous waste management:</b> Hazardous waste generated will be disposed through authorized vendors / registered recyclers under the preview of Hazardous and other wastes (management and transboundary movement) rules, 2016.</p> <p>(xiii) <b>If the Project is in CRZ Area:</b></p> <ul style="list-style-type: none"> <li>• Components in CRZ Area: Only activities permitted within the CRZ area (as per the CRZ notification 2011 and its subsequent amendments) will be carried out after obtaining due approvals. No other activities will be carried out within the CRZ areas.</li> <li>• Recommendation of Coastal Zone Management Authority: CRZ recommendation for the entire area of 8481.2784 ha (including the sea water intake and outfall facility) is obtained from GCZMA vide their letter no. ENV-10-2010-1601-E dated 27.03.2012. Further, recommendation for addition of 1840 ha land into presently approved SEZ area of 6641.2784 ha (so that total is 8481.2784 ha) is also obtained from GCZMA vide their letter no. ENV-10-2010-1601-E dated 04.01.2017.</li> <li>• Layout on CRZ Map of 1:4000 scale prepared by authorised agency:</li> </ul>
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CRZ maps in the respective scale are submitted to GCZMA and MoEF&CC as per the requirements.

(xiv) **Cost of the Project:** Estimated cost of the project is INR 5105 Crore.

(xv) **Employment potential:** 75,500.

(xvi) **Benefits of the project:** Economic development, Employment opportunities, Infrastructure development in the region.

(xvii) **Details regarding pending court cases:**

Sr no	Case reference	Matter description	Present status	Remarks
1	Supreme Court of India  SLP (c) No.1526 of 2014	<p>Appeal has been filed by the Company and 12 units against the Hon'ble Gujarat High Court order in relation to 12 units in Mundra SEZ.</p> <p>Public Interest Litigation was filed by Mr. Gajubha Bhimaji Jadeja and others before the Hon'ble Gujarat High Court alleging that 12 units in Mundra SEZ have continued their operational and construction activities though Mundra SEZ has not been granted the environmental clearance.</p> <p>The Hon'ble Gujarat High Court disposed of the petition in January, 2014 and directed MoEF&amp;CC to consider grant of environmental clearance to Mundra SEZ within a period of 30 days and also ordered that in the meantime, no activities can be carried out by the 12 units in SEZ.</p>	Pending	MoEF&CC granted the Environmental and CRZ clearance to Multiproduct SEZ on 15.07.2014.
2	Supreme Court of India  SLP (c) No. 28788 of 2016	<p>Appeal against the Hon'ble Gujarat High Court order in relation to ship recycling project.</p> <p>Public Interest Litigation was filed before the Hon'ble Gujarat High Court by Mr. Pravinsingh Bhurubha Chauhan alleging that though no clearance is granted to ship recycling project, work has been undertaken in this regard. It also alleged that the site for ship recycling project falls in area having sand dunes which is not allotted to APSEZ. The Regional Officer of MoEF&amp;CC visited the site and filed an affidavit stating that:</p>	Pending	The Hon'ble Supreme Court in October, 2017 requested the Sunita Narain Committee to look into the matter once again and report at the earliest with regard to the levelling of sand dunes especially with regard to the Port facilities in

		<p>(a) No work has been undertaken for ship recycling project;</p> <p>(b) Ship recycling project is not part of area containing alleged sand dunes;</p> <p>(c) The area is sandy and is part of 1840 ha of forest land allotted to APSEZ.</p> <p>The Hon'ble Gujarat High Court dismissed the petition in February, 2015.</p>		<p>Mundra District.</p> <p>The Committee has filed its report to the Hon'ble Supreme Court.</p>
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<b>3.1.2</b>	<p>The EAC has noted the following:</p> <p>(i) The project proposal was for 8481.2784 ha area for which the proponent has the ownership. The project was considered and recommended by EAC in its 114th meeting for Environmental and CRZ Clearance for Multiproduct SEZ on 8481.2784 ha area on 09.07.2012. However, the Ministry of Commerce and Industries (MoCI) had denotified 1840 ha of land on account of issue related to contiguity. Hence, Environmental Clearance for 6641.2784 ha (8481.2784 – 1840) was issued on 15th July, 2014.</p> <p>(ii) Ministry of Commerce and Industries (MoCI) again notified 1840 ha vide their notification dated 11.12.2015. Therefore, the proponent now wants to add 1840 ha area.</p> <p>(iii) The Proponent requested that the EAC had already recommended for EC on 09.07.2012 for the entire 8481.2784 ha area and that the MoCI has now revoked its denotification, the proponent has requested for EC for this notified area.</p> <p>(iv) The EIA and Public hearing were conducted for entire 8481.2784 area.</p> <p>(v) 1840 ha land proposed for the project is notified for development of SEZ by MoCI vide their Notification dated 11.12.2015. All the procedures including preparation of EIA report, Public Hearing, preparation of CRZ maps, obtaining CRZ recommendation were carried out as per the EIA notification 2006, CRZ notification 2011 and their subsequent amendments for the entire area, i.e., 8481.2784 ha.</p> <p>(vi) Facilities like Processing Zones, Non-processing Zones, Warehousing Zones, Road Network (Trunk as well as Internal), Bridges or Culverts over natural drain, Rail Network, IT-Telecommunication Network, Electric Network, Water Supply, Conservation &amp; Drainage Network, Effluent Collection Network and Utilities &amp; Supporting Infrastructure will be developed within the proposed project area.</p> <p>(vii) There is no change in the original project proposal. The present proposal does not require any additional resource consumption, addition of new project component and to expand the capacities of the approved project components.</p> <p>(viii) Conservation Action Plans for Kotdi I and II creeks, Baradimata creek, Bocha Island, Navinal and Bocha creeks are in place.</p>
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<p><b>3.1.3</b></p>	<p>The EAC, after a detailed deliberation, during 191<sup>st</sup> meeting held on 25<sup>th</sup> June, 2018, recommended for submission of Environmental Management Plan (EMP) for further consideration. The EAC also recommended for exemption of the Public Hearing in view of the fact the PH has already been held for the entire project area. The Environmental Management Plan EMP may cover following issues:</p> <ul style="list-style-type: none"> <li>(a) Details of activities already completed and operational, under construction and yet to be taken up with a layout map for 6641.2784 ha area.</li> <li>(b) Activities proposed under expansion (1840 ha) with layout plan.</li> <li>(c) Green belt demarcation with layout maps in existing as well as proposed areas.</li> <li>(d) Ambient air, water, Soil and noise quality monitoring data of exiting area as well as in proposed area.</li> <li>(e) Effluent emission data (flow and concentration) from operational units.</li> <li>(f) Predicted values of air quality with respect to upcoming and proposed units in existing and proposed areas.</li> <li>(g) Marine environment management plan with focus on mudflats and mangroves.</li> <li>(h) Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein.</li> </ul>																											
<p><b>3.1.4</b></p>	<p>The project proponent presented following information before EAC during its 195<sup>th</sup> meeting on 30-31 August, 2018:</p> <ul style="list-style-type: none"> <li>(i) 1840 ha land (present proposal) is notified &amp; contiguous to the approved SEZ of 6641.2784 ha.</li> <li>(ii) 1840 ha area is a forest land which is diverted for the purpose of SEZ. Forest clearance was obtained vide MoEF&amp;CC letter dated 30.09.2009.</li> <li>(iii) There are no settlements in the present land hence there is no requirement of R &amp; R plan.</li> <li>(iv) Necessary permissions for STP/CETP considering the development of entire area of 8481.2784 are already obtained (as part of EC dated 15.07.2014). Hence no new proposal for the water treatment facilities is required.</li> <li>(v) Source and quantum of water &amp; power requirement for the overall SEZ area of 8481.2784 will remain unchanged as per the original proposal. Hence, no additional resource consumption is required.</li> <li>(vi) Landuse of existing SEZ and proposed expansion area:</li> </ul> <table border="1" data-bbox="300 1731 1391 2038"> <thead> <tr> <th rowspan="3">Sl. no</th> <th rowspan="3">Development Zone</th> <th>6641.3 Ha</th> <th>1840.0 Ha*</th> <th>8481.3 Ha</th> </tr> <tr> <th>Area in Ha</th> <th>Area in Ha</th> <th>Area in Ha</th> </tr> <tr> <th>(%)</th> <th>(%)</th> <th>(%)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2">Port backup and Related Industrial Developments (Requiring waterfront)</td> <td>645.7</td> <td>202.4</td> <td>848.1</td> </tr> <tr> <td>9.7%</td> <td>11%</td> <td>10%</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">Industrial Zone and Power Generation Warehousing &amp; CFS Zone</td> <td>3029</td> <td>1227.3</td> <td>4256.3</td> </tr> <tr> <td>45.6%</td> <td>66.7%</td> <td>50.2%</td> </tr> </tbody> </table>	Sl. no	Development Zone	6641.3 Ha	1840.0 Ha*	8481.3 Ha	Area in Ha	Area in Ha	Area in Ha	(%)	(%)	(%)	1	Port backup and Related Industrial Developments (Requiring waterfront)	645.7	202.4	848.1	9.7%	11%	10%	2	Industrial Zone and Power Generation Warehousing & CFS Zone	3029	1227.3	4256.3	45.6%	66.7%	50.2%
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	3	Open/Green Spaces	390	97.5	487.5
			5.9%	5.3%	5.7%
	4	Social Infrastructure	325	0	325
			4.9%	0	3.8%
	5	Facilities/ Amenities & Utilities Transportation	2251.5	312.8	2564.3
			33.9%	17%	30.2%
	(vii)	Provided a list of 41 industrial units presently running or under construction along with lay out plan of proposed 1840 ha for further addition to SEZ area. Also provided the details of water treatment facilities (STPs and CETPs) for various operational units.			
	(viii)	Provided data for monitoring of air quality, groundwater (bore well) and soil during period between October, 2017 and March, 2018.			
	(ix)	Predicted air quality scenario for PM <sub>10</sub> and PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> in respect of all approved and proposed development till year 2030.			
	(x)	Provided details of study by National Centre for Sustainable Coastal Management (NCSCM), Chennai showing an increase of 246 ha in the mangrove cover between 2011 and 2016. Also provided the details of various measures being undertaken for the conservation of mangrove and associated creeks.			
	(xi)	Proponent also provided details of green belt along with map in the SEZ area.			
<b>3.1.5</b>	The EAC, after a detailed deliberation during 195 <sup>th</sup> meeting held on 30-31 August, 2018, has observed the following:				
	(i)	Details of industrial activities with area of land be provided.			
	(ii)	Details of storage facilities at port be provided.			
	(iii)	Annual average data of air quality based on 104 observations and 24 hours average data at existing monitoring stations be provided.			
	(iv)	The soil is highly contaminated due to presence of high quantities of the heavy metals and committee desired to know the source and reasons of this.			
	(v)	Extent of Mangrove cover compared between 2011 and 2016 revealed the increase of 246 ha. However, recent assessment using latest data has not been carried out to know the current status and increasing trend in the mangrove cover post 2016.			
	(vi)	Detailed planning of CER as per Ministry's O.M. dated 1 <sup>st</sup> May, 2018 be provided.			
<b>3.1.6</b>	In view of above, the EAC, after a detailed deliberation during 195 <sup>th</sup> meeting held on 30-31 August, 2018, <i>deferred the proposal</i> for want of following information for further consideration:				
	(i)	Details of industrial activities with area of land indicated in layout plan to be provided.			

- (ii) The comparative statement of industries proposed in earlier EC application of 1840 ha and in present application.
- (iii) Revised green-belt development plan be submitted. Green buffer in the form of Green belt to a width 15 m should be provided all along the periphery of the proposed Industrial Area. The individual units should keep 33% of allotted area as green belt.
- (iv) Details of storage facilities at port and also mention the amount of coal, liquid etc. to be stored be provided.
- (v) The annual average data as well as 24 hours average data for air quality monitoring at existing monitoring stations be provided.
- (vi) Detailed study to understand the causes and potential mitigation measures to reduce the contamination from soil due to heavy metals needs be carried out.
- (vii) Study the mangrove cover after SEZ became operational (using pre-SEZ baseline data) and provide evidence of impact (positive or negative) on mangroves.
- (viii) Detailed activity wise plan of CER as per Ministry's O.M. dated 1<sup>st</sup> May, 2018 be provided.

**3.1.7**

During the 201<sup>st</sup> meeting held on 1<sup>st</sup> November, 2018, following information were presented before the EAC:

- (i) The landuse breakup showing various Developmental zones within the proposed additional area (1840 ha) is as under:

Sl. No.	Development Zone	Area (ha)
1	Port backup and Related Industrial Developments (Requiring waterfront)	187.22
2	Industrial Zone (Chemical, Textile & Apparel, Heavy/Light Engineering, Plastic, Cement)	978.64
3	Warehousing & Container Freight Station (CFS) Zone	88.33
4	Green/Renewable Energy	24.15
5	Open/Green Spaces	607.00
6	Facilities / Amenities & Utilities / Transportation	256.20
	<b>TOTAL AREA</b>	<b>1840.00</b>

*Note: (1) This is an illustrative and tentative planning for the purpose of carrying out the impact assessment studies. Actual planning may differ based on the requirements at the time of detail engineering and detailed planning. (2) Proposed greenbelt by APSEZ = 305 ha (16.6%) and by industrial units = 302 ha (16.4%)*

- (ii) There is no change in the proposal in respect of industries proposed in earlier EC application of 1840 ha and in present application.
- (iii) The green belt plan is revised as per the direction of the EAC (mentioned in table given above).
- (iv) Details of storage capacity at port is given in the following table:

<b>Cargo</b>	<b>Storage area(ha)</b>	<b>Storage capacity (Mill. Tonnes)</b>	<b>Handling capacity (MMTPA)</b>
Coal	93.6	2.62	28.08
Liquid	74.9	0.97	11.98
Dry bulk	18.7	0.52	5.61
Total	187.2	4.11	45.67

(v) The EAC was also informed that impact assessment and related mitigation measures for cargo handling and storage activities were already covered as part of EIA study. A copy of Cumulative Impact Assessment study, covering the development activities at Mundra, has already been provided to all committee members vide their e-mail dated 17.10.2018. A hard copy of the report was also submitted to the Ministry.

(vi) In respect of high quantity of heavy metals in soil, it was informed that dredged material naturally contains certain concentration of heavy metals. The said dredged material was used for level raising within SEZ areas hence soil samples show higher levels of heavy metals. However, the soil quality from surrounding villages is intact and does not show any contamination of heavy metals. As per TCLP analysis, all the parameters of leachate are well within the prescribed limits as per Hazardous and Other Wastes (Management & Transboundary Movement) Rules – 2016.

(vii) Mangrove cover has been increased by 281 ha from year 2011 to year 2018. The status of Mangrove cover, as provided by the project proponent, is as under:

<b>Category</b>	<b>2011</b>	<b>2018</b>
Dense	382	643
Sparse	590	906
Scattered	1122	826
Total	2094	2375

(viii) Detailed activity wise CER planning as per Ministry's O.M. dated 1<sup>st</sup> May, 2018 as provided by the proponent is as under:

<b>Sl. No.</b>	<b>Core Area</b>	<b>Fund provision (Rs. In Lakh)</b>
1	Biodiversity	152
2	Water Conservation and Water Recharge Projects	380
3	Fisherman alternate livelihood	125
4	Women Empowerment Project to promote entrepreneurship	84
5	Agriculture Promotion	233
6	Community Resource Center/ Training Center	275
<b>TOTAL</b>		<b>1249</b>

(ix) No CETP is proposed.



**3.1.8**

The EAC, after a detailed deliberation during 201<sup>st</sup> meeting held on 1<sup>st</sup> November, 2018, has observed the following:

- (i) Details of industrial activities with area of land indicated in layout plan was provided as desired by the EAC during its 195<sup>th</sup> meeting held on 30-31 August, 2018.
- (ii) Generic Risk Assessment was carried out for Natural gas and Light Diesel Oil as part of the EIA report prepared earlier for the entire area. But the proponent has not indicated the liquid storage other than Light Diesel Oil (LDO). Risk Assessment for liquid storage other than LDO has not been carried out.
- (iii) Provided information about change in the mangrove cover with geo-coordinates using satellite data of 2016-17 and 2018:

Point	Co-ordinates		Area in Ha	Status
1	22°47'48.97"N	69°44'11.95"E	1.45	Growth
2	22°47'44.36"N	69°43'50.74"E	6.6	Growth
3	22°46'38.19"N	69°43'46.11"E	2.9	Reduction
4	22°46'7.5"N	69°41'58.44"E	3.75	Growth
5	22°44'55.56"N	69°42'53.38"E	0.36	Reduction
6	22°45'52.43"N	69°40'4.02"E	7.6	Growth
7	22°45'30.15"N	69°39'30.19"E	4.8	Growth
8	22°45'1.59"N	69°39'49.92"E	2.84	Reduction
9	22°45'18.62"N	69°38'54.16"E	1.8	Reduction
10	22°45'26.74"N	69°38'37.14"E	9.1	Growth
11	22°46'6.48"N	69°39'18.27"E	1.2	Growth
12	22°46'5.45"N	69°39'33.18"E	1.6	Reduction
13	22°46'10.15"N	69°39'45.96"E	2.5	Reduction
14	22°45'49.75"N	69°39'21.36"E	1	Growth
15	22°46'1.10"N	69°38'52.67"E	4.7	Growth
16	22°46'32.56"N	69°39'16.91"E	6.7	Reduction
17	22°47'3.79"N	69°38'44.13"E	4.8	Growth
18	22°46'29.82"N	69°38'15.99"E	3	Growth
19	22°46'19.73"N	69°37'38.90"E	6	Growth

- (iv) As such, there is no buffer between the proposed storage terminals and the industrial zone.
- (v) The proponent has submitted the CER plan as desired, however, Mangrove Management Plan is lacking.

**3.1.9**

The EAC has noted that the project was recommended by the EAC in its 114<sup>th</sup> meeting held on 9<sup>th</sup> July, 2012 for an area of 8481.2784 ha. However, the Ministry of Commerce and Industries (MoCI) de-notified 1840 ha of land from SEZ vide its

notification S.O. 2501 (E) dated 12<sup>th</sup> October, 2012. In view of this, MoEFCC granted Environmental Clearance to the said project for an area of 6641.2784 ha only (8481.2784 ha – 1840 ha) vide MoEFCC letter no. 10-138/2008-IA.III dated 15<sup>th</sup> July, 2014. The Ministry of Commerce and Industries (MoCI) had re-notified the de-notified portion of SEZ vide its notification S.O. 3029(E) dated 11<sup>th</sup> December, 2015. Upon request of the proponent, vide their online application no. IA/GJ/MIS/75351/2018 dated 8<sup>th</sup> June, 2018, the Ministry considered the proposal for grant of Environmental Clearance for expansion of SEZ from 6681.2874 ha to 8481.2874 ha by including the earlier de-notified area of 1840 ha. The proposal was appraised by EAC in its 191<sup>st</sup> meeting held on 25<sup>th</sup> June, 2018, 195<sup>th</sup> Meeting on 30-31 August, 2018 and 201<sup>st</sup> meeting on 1<sup>st</sup> November, 2018. After detailed deliberation during 201<sup>st</sup> meeting on 1<sup>st</sup> November, 2018, the **EAC recommended the proposal for grant of Environmental Clearance** for the proposed expansion of Multi-product SEZ Mundra by M/s APSEZ Ltd, with following specific conditions in addition to all conditions stipulated in earlier EC letter no. 10-138/2008-IA.III dated 15<sup>th</sup> July, 2014:

- (i) Total area of Multi-product SEZ run by APSEZ Limited will be 8481.2784 ha after this expansion. The geo-coordinates of the additional piece of land (1840 ha) are 22°47'35.41" - 22°47'57.67"N and 69°40'6.15" - 69°32'46.58"E.
- (ii) The proponent shall obtain, wherever applicable, separate Environmental Clearance including Risk Assessment for the Isolated Storage and Handling of Hazardous Chemicals under schedule 6(b) of the EIA Notification, 2006 and subsequent amendments thereto.
- (iii) The proponent shall prepare and implement the Mangrove Conservation and Management Plan in consultation with the State Forest Department. This Plan shall be subject to monitoring by the third party. The implementation report and third party audit report be submitted to the Regional Office, MoEF&CC and the State Forest Department.
- (iv) All the recommendations and mitigation measures as proposed in the Cumulative Impact Assessment report of Waterfront, SEZ and ancillary Developments along Mundra, Kutch District, Gujarat shall be complied in letter and spirit. Proper record of monitoring should be placed along with six monthly compliance report.
- (v) This environmental clearance is only for the **Multi-product SEZ**. Any other activity within the **Multi-product SEZ** would require separate environmental clearance, as applicable under EIA Notification, 2006 and subsequent amendments. For all individual units, environmental clearances, as applicable, shall be obtained from the respective regulatory authorities.
- (vi) An Emergency Response Centre to be established to take care for prevention of and management of accidents, chemical spills etc. including that during transportation of chemicals with the arrangement of antidotes and necessary equipment.
- (vii) The project proponent shall ensure that the project is in consonance with the new Coastal Zone Management Plan prepared by the State Government

	<p>under the provisions of CRZ Notification, 2011.</p> <p>(viii) All the provisions of the CRZ Notification, 2011 and subsequent amendments shall be strictly complied with, and in case of any change in scope of work, necessary recommendations from the concerned CZMA shall be obtained for further consideration by the concerned regulatory authority.</p> <p>(ix) The project proponent shall ensure that the project is in consonance with the new Coastal Zone Management Plan prepared by the State Government under the provisions of CRZ Notification, 2011.</p> <p>(x) On the project site physical HTL demarcation has to be compulsorily made with the help of Government of India organizations/Institutions.</p> <p>(xi) There shall be no disturbance to the sand dunes (Size and location latitude and longitude to be given).</p> <p>(xii) No construction works other than those permitted in CRZ Notification shall be carried out in CRZ area.</p> <p>(xiii) Non vegetated mudflats must be clearly demarcated on the map and no artificial plantation to be undertaken on non- vegetated mudflats.</p> <p>(xiv) The temperature at the discharge point has to be monitored regularly and also the physico-chemical and biological parameters including benthic fauna and flora, primary and secondary productions as well as fishery populations has to be monitored regularly during the construction and operation phase by employing qualified persons.</p> <p>(xv) The project proponent shall report to the State Pollution Control Board about the compliance of the prescribed standards for all discharges from the Industrial Area into the sea.</p> <p>(xvi) As mentioned by the Proponent, no CETP is proposed, therefore not permitted.</p> <p>(xvii) Periodic monitoring of coastal water shall be carried out at outfall location by the project proponent by establishing minimum 3 monitoring stations. Proper record of monitoring should be placed along with six monthly compliance report.</p> <p>(xviii) Fund allocation of Rs. 12.50 Crore for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein. The report having activity wise detail along with the time frame shall be submitted to this Ministry and its concerned regional office within 3 months.</p> <p>(xix) The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.</p>
3.2	<p><b>Development of 8-lane (Greenfield Highway) from of Banda Hera (Ch. 392.800 km) to Moondiya (Ch. 452.625 km) Section of NH-148N (Total length 59.625 km), under Bharatmala Pariyojana Lot-4/Pkg-4 in District Kota, Rajasthan by M/s National Highways Authority of India – Terms of Reference.</b></p> <p><b>[Proposal No. IA/RJ/MIS/75490/2018] [F. No. 10-76/2018-IA.III]</b></p>

<p><b>3.2.1</b></p>	<p>The project proponent along with the EIA consultant Feedback Infra Pvt. Ltd. made a presentation and provided the following information to the Committee:</p> <p>(i) The proposed project is a development of 8/6 lane access control expressway to improve the efficiency of freight movement under Bharatmala Pariyojana Section- 4 of Lot-4/Pkg-4. The proposed ROW is 100 m.</p> <p>(ii) <b>Location:</b> The proposed Section- 4 traverses through Kota district in State of Rajasthan.</p> <p>(iii) <b>Land Acquisition &amp; Proposed RoW:</b> Approx. 596.25 ha land for proposed highway and about 101.00 ha land for rest area &amp; other facilities.</p> <p>(iv) <b>Land use of the site and around the site up to 10 km radius:</b> The land use pattern on 500 m either side of the project road is predominantly agriculture, barren land and followed by Forest Area.</p> <p>(v) <b>Rehabilitation involved, if any:</b> the details of structures to be rehabilitated or resettled shall be provided in EIA report.</p> <p>(vi) <b>Justification for selection of the site:</b> Three alignment options (3 Greenfield routes) were analyzed for the project and comparison has been drawn based on Techno-commercial characteristics (details provided in analysis of alternatives). Major technical aspects for comparative analysis were environment, social and design concepts. Efforts were made to avoid the forest, wildlife and settlement areas to the maximum extent possibilities. The proposed alignment has been selected due to the following reasons: -</p> <ul style="list-style-type: none"> <li>• Minimum disturbance to the habitation areas</li> <li>• Route selection in such a way, so that, forest area can be avoided to the maximum extent.</li> <li>• Better connectivity to Kota district in the state of Rajasthan and major towns and connectivity with existing roads SH-9A, SH-51 and NH-12</li> <li>• The new access controlled green field national highway will pave the way for economic development of the region.</li> <li>• Lesser the fuel consumption results in reduction of pollution level</li> </ul> <p>(vii) <b>Tree cutting, types, numbers, girth size etc.:</b> Tree counting under progress, Trees are likely to be affected due to proposed development. Efforts will be made to minimize the trees loss by restricting tree cutting with formation width</p> <p>(viii) <b>Total water requirement and its source:</b> Total requirement of water for construction will be estimated during the detail EIA study.</p> <p>(ix) <b>Waste water generation, treatment and disposal:</b> 120.0 Kg/day (approximately) during construction phase and 32.0 kg/day (approximately) during operation phase.</p> <p>(x) <b>Water bodies, diversion if any:</b> The project passes through 8 water bodies. 4 out of which are ponds and rest are irrigation canals.</p> <p>(xi) <b>Whether the project is in Critically Polluted area:</b> No</p> <p>(xii) <b>Terrain, level with respect to MSL, requirement of filling if any: the proposed project</b> traverses entirely through plain/rolling and mountainous terrain in Kota district of Rajasthan.</p> <p>(xiii) <b>Municipal solid waste generated disposal facility:</b> Municipal solid waste shall be generated from the labour camps. The solid waste will be collected &amp; disposed suitably in compost pit and / or transported in covered trucks at</p>
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approved municipal disposal sites through contractors.

(xiv) **Hazardous wastes (as per Hazardous Waste Management Rules):** Spent oil from construction equipment / vehicles and DG sets generated during construction phase will be appropriately stored, handled and properly disposed of through approved vendors.

(xv) **National Park/ Wild Life Sanctuary in 10 km radius area & Eco-Sensitive Zone in 10 km radius area:** The proposed alignment is passing through the Darrah Wildlife Sanctuary, Mukundra Hill National Park and Mukundara Hills Tiger Reserve.

(xvi) **If the project involves diversion of forest land, extend of the forest land:** Tentative length of affected forest area along the proposed alignment is about 10.559 km with about 105.0 ha of affected forest area considering the RoW of 100 m. Chainage wise distribution of the forest area is given in table below:

S. N o.	Approx. Chainage (Km)		Approx. Length * (Km)	Division Name	Forest Range	Forest Block	Status
	From	To					
1	404.281	405.000	0.72	Kota	Mandana	Mawasa Arandkheda Binyani A	Protected
2	405.000	414.840	9.84	Kota	Mandana	Barkalaji	Reserved

The forest diversion proposal for the project was done on 17th October, 2018 vide proposal no. FP/RJ/ROAD/36597/2018. The proposal is under examination. The tree enumeration shall be done after acceptance of the proposal and joint inspection by Forest Department.

(xvii) **Investment/Cost of the project:** INR 2323 Cr.

- i. **Benefits of the project:** The project will provide a better connectivity to Kota district in the state of Rajasthan. It will gear up the economic growth of the region by providing time optimised reach to the wide market of Capital City. The project will provide direct employment during construction phase; and also temporary indirect employment for Vendors, suppliers, electricians, plumbers and other allied industries and permanent indirect employment during the operations phase. The implementation will result in employment generation for cleaners, guards, local vendors, kiosk operators, drivers, doctors etc.





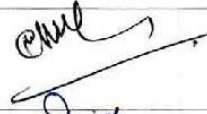

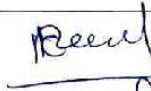
(xviii) **Employment potential:** Approx. 480 during construction and 130 (approx.) during Operation phase

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

### 3.2.2

After detailed deliberation during 201<sup>st</sup> meeting on 1<sup>st</sup> November, 2018, the EAC observed that the proposed stretch is highly sensitive from ecological point of view. Therefore, EAC **recommended for a site visit by a sub-committee** of the EAC before the proposal is considered further.

**List of the Members attended 201<sup>th</sup> meeting of Expert Appraisal Committee for Projects related to Infrastructure Development, Industrial Estate and Miscellaneous projects held on 1<sup>st</sup> November 2018 and approved the above minutes.**

Sl. No.	Name of the EAC member	Role/Designation	Signature
1.	Dr. Deepak Arun Apte, Director, Bombay Natural History Society (BNHS), Mumbai	Chairman	
2.	Dr. Manoranjan Hota Former Advisor/Scientist-G, MoEF&CC	 Chairman	
3.	Dr. N.K. Verma, Former AD, CPCB, New Delhi	Member	
4.	Dr. Anil Kumar Singh, IFS (Retd), Ex PCCF Assam, Tower F, Float No. 103 Grand Ajnara Heritage, Sector 74, Noida, UP	Member	
5.	Shri Prabhakar Singh, Special DG, CPWD, Delhi.	Member	
6.	Dr. Mohan Singh Panwar, Associate Professor , H.N.B Garhwal Central University, Srinagar,	Member	
7.	Shri N.K. Gupta, Member (EAC), Scientist E & In-charge (ESS), Central Pollution Control Board,	Member	
8.	Dr. D. Chakraborty, Scientist MoWR, RD & GR, New Delhi	Member	
9.	Smt. Bindu Manghat, Director Survey of India New Delhi	Member	
10.	Shri Raghu Kumar Kodali, Director/Scientist-F, IA-III Division, MoEF&CC	Member Secretary (Infra-1 EAC)	
11.	Dr. Ashish Kumar, Joint Director, Ministry of Environment, Forest and Climate Change,	Member	