

Form I

Exhibition Cum-Convention Centre Dwarka

February, 2017

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Form I - Exhibition Cum-Convention Centre at Dwarka, Delhi

Prepared for:
Delhi Mumbai Industrial Corridor Development Corporation Limited (DMICDC)
Prepared by:
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Quality information

Technical Verification Record

PROJECT NAME:	Development of Exhibition cum Convention Centre -Dwarka, New Delhi					
Document Name:	ENVIRONMENT IMPACT ASSESSMENT REPORT					
VERIFICATION	NAME DATE SIGNATURE					
PREPARED:	Anchal Jain Govind Rathod Jayakrishna Vasam Abhay Mishra	6.02.2017				
CHECKED:	Nidhi Sharma Ajay Pillai	7.02.2017				
APPROVED:	Ajay Pillai, Amit Kaul	7.02.2017				

Revision Record

REVISION	DATE	APPROVED	DESCRIPTION
0	7.02.2017	Amit Kaul	Submission



1. Basic Information

Serial Number	Item	Details
1.	Name of the project	Development of an Exhibition-cum-Convention Centre (ECC) at Dwarka, New Delhi
2.	S. No. in the schedule	8(b)
3.	Proposed capacity/ area / length/ tonnage to be handled/ command area/ lease area/ number of wells to be drilled	89.72 Ha
4.	New/ Expansion/ Modernization	New
5.	Existing Capacity/ Area etc.	-
6.	Category of Project i.e. 'A' or 'B'	В
7.	Does it attract the general condition? If yes, please specify.	No
8.	Does it attract the specific condition? If yes, please specify.	No
9.	Location	Dwarka, New Delhi
	Plot/ Survey/ Khasra No.	Sector 25
	Village	Barthal and Bamnoli Villages
	Tehsil	South-West Delhi District
	District	New Delhi
	State	New Delhi
10.	Nearest railway station/ airport along with distance in kms.	 a. 11.0 km from Indira Gandhi International (IGI) Airport b. 3.0 km from Bijwasan Railway station. c. 1.0 km from Delhi Metro Station of Sec-21, Dwarka.
11.	Nearest Town, city, District Headquarters along with distance in kms.	a. Within Dwarka Sub-City b. 11 km from Gurgaon in south direction
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone no's to be given)	Delhi Development Authority (DDA) Municipal Corporation of Delhi (MCD)
13.	Name of the applicant	Delhi Mumbai Industrial Corridor Development Corporation Limited (DMICDC Ltd)
14.	Registered Address	Delhi Mumbai Industrial Corridor Development Corporation Ltd. Room No. 341 – B, 3 rd Floor, Hotel Ashok, Chanakyapuri, New Delhi – 110021
15.	Address for correspondence:	Delhi Mumbai Industrial Corridor Development Corporation Ltd., Room No. 341 – B, 3rdFloor, Hotel Ashoka, Chanakya Puri, New Delhi – 110021
16.	Name Designation (Owner/ Partner/ CEO)	Name: Mr Alkesh Kumar Sharma Designation: CEO & MD, DMICDC Address: Delhi Mumbai Industrial Corridor Development Corporation Ltd. Room No. 341 – B, 3rdFloor, Hotel Ashoka, Chanakya Puri; New Delhi – 110021; Pin code: 110021 Email: ceo@dmicdc.com Telephone No.: +91-2611-8883-8; Fax No.: +91-2611-8889



17.	Details of Alternative Sites examined, if any.	A detailed analysis of three (3) sites has been carried out considering connectivity, land use etc. on basis of which site at Sector 25, Dwarka has been selected.
18.	Interlinked Projects	No
19.	Whether separate application of interlinked project has been submitted?	-
20.	If yes, date of submission	-
21.	If no, reason	-
22.	Whether the proposal involves approval/ clearance under: if yes, details of the same and their status to be given. a. The Forest (Conservation) Act, 1980? b. The Wildlife (Protection) Act, 1972? c. The C.R.Z Notification, 1991?	a. No (There is no reserve forest in the vicinity of project site) b. Not Applicable (There is no sanctuaries, national park or bio reserve in the site earmarked for project) c. Not required
23.	Whether there is any Government Order/ Policy relevant/ relating to the site?	Notification has been issued by Ministry of Urban Development (MoUD) dated 12 th May, 2016 describing the modification in the land use of land proposed for development of ECC falling in Zone-II (Dwarka). The land use has been changed from commercial to Public, Semi Public and socio- cultural facilities
24.	Forest land involved (hectares)	No forest land within the site.
25.	Whether there is any litigation pending against the project and/ or land in which the project is proposed to be set up? a. Name of the Court b. Case No. c. Orders/ directions of the Court, if any and its relevance with the proposed project.	No

Capacity corresponding to sectoral activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.,)

1.1 Activity

A. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	Yes	As per the latest Notification issued by Ministry of Urban Development dated 12 th May, 2016 on Zonal Plan K - II, Delhi Master Plan 2021, the land proposed for development of ECC, falling in Zone-II (Dwarka) has been categorised for Public, Semi Public (PSP) use and socio-cultural facilities. The proposed development will be incompliance with the planned landuse of the area.
1.2	Clearance of existing land, vegetation and buildings?	Yes	Clearance of existing vegetation on site will be carried out.

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1.3	Creation of new land uses?	Yes	with f areas The p	There will be development of an Exhibition-cum-Convention Centre with facilities such as hotels, service apartments, retail areas, office areas. The proposed project will be constructed in two (2) phases:					
				Phase I: construction of Phase II: construction of	•		•		
				Breakup Of E	Ruilt IIn Ares	a (Sam)			
			S. No.	Component	Phase 1	Phase 2	TOTAL		
			1	Exhibition Centre	37,260	162740	2,00,000		
			2	Foyer	2740	47260	50,000		
			3	Convention Centre	60,000		60,000		
			4	Arena (Theme Destination)	-	50,000	50,000		
			5	Hotel (5 Star)	60,000	70,000	1,30,000		
			6	Hotel (4 Star)	14,000	46,000	60,000		
			7	Hotel (Budget)	21,000	39,000	60,000		
			8	Service Apartments	-	25,000	25,000		
			9	Office	85400	1,29,600	2,15,000		
			10	Retail	1,44,600	25400	1,70,000		
					425,000	5,95,000	10,20,000		
1.4	Pre-construction investigations e.g. bore houses, soil testing? Construction works?	Yes Yes	cond	nvestigation, geotechni ucted before commenc buildings will be constr	ement of con	struction acti	vities.		
			conve	ention centre, hotels, se	ervice apartm	nents, arena a	and offices.		
1.6	Demolition works?	No	No de	emolition work is envisa	aged.				
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	work. It is e	bour camps have beer estimated that about 55 ged for construction an	00 local labor	urers workers	s will be		
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	centr this, t	e ground buildings will e, hotels, service apart there will be provision o er MEP services etc.	ments, arena	and offices.	other than		
1.9	Underground works including mining or tunneling?	No	NA						
1.10	Reclamation works?	No	NA						
1.11	Dredging?	No	NA						
1.12	Offshore structures?	No	NA						
1.13	Production and manufacturing processes?	No	None	e, it is an Area Developr	ment Project.				
1.14	Facilities for storage of goods or materials?	Yes	const	ng construction phase, to truction materials like comon storage facilities/v	ement, brick	etc.			
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	1	g construction stage, w					



1.16	Facilities for long term housing of	No	areas. Adequate measures will be taken for proper collection and disposal of the debris by the engaged civil contractors. Domestic effluents will be collected in septic tanks followed by soak pits. During operation stage, the waste will include liquid and solid waste from convention centre. For disposal of liquid waste, two Sewage Treatment Plant have been proposed: For Phase I- 2.75 MLD For Phase II- 3.95 MLD All waste generated within ECC may be disposed through ECC's O&M Agency which shall engage a private waste collection agency authorised by Pollution Control Board or through waste collection services provided by the local civic body (South Delhi Municipal Corporation, SDMC for Dwarka area). For biodegradable waste disposal, options shall be evaluated including disposing of the wastes through portable organic waste composter machines within the premises to produce compost, which can be used in the landscaped areas; along with setting up small modular units of biogas plant (biogas generated can be used for captive uses such as pantry/ kitchen of ECC). The recyclable fraction of the waste, to be sold to recyclers. Any e-waste and hazardous waste generated by the project shall be sold to CPCB authorized waste collectors /handlers.
1.17	operational workers? New road, rail or sea traffic during construction or operation?	Yes	There will be increased traffic during construction phase for transporting the construction materials. During operation phase also, the area is positioned to face increased traffic with the proposed Urban Extension Road II and I, proposed ISBT and extension of Metro line.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	Yes	Widening of existing Urban Extension Roads and primary roads will be done. Separate project proposals for construction of new roads, Inter State Bus Terminal (ISBT), new MRTS depot are under consideration by the concerned government departments such as DDA, Transport Department of the NCT of Delhi. It is envisaged that this ISBT terminal will help decongest traffic by restricting buses from Haryana and Rajasthan to Delhi with handling capacity of 60,000 daily passengers. An integrated Metropolitan Passenger Terminal (IMPT) has also been proposed, which will fall in the purview of Indian Railways (IR).
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	Yes	Partially, only during construction phase.



1.20	New or diverted transmission lines or pipelines?	Yes	For operation phase, there will be provision of power transmission lines, water pipelines to the project components etc.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	NA
1.22	Stream crossings?	No	NA
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	As the proposed site lies in K-II zone as per the DDA MPD-2021, the water demand shall be met from water mains of Delhi Jal Board (DJB). Water will be sourced out of the six underground reservoirs (UGRs) planned for Dwarka as per the MPD-2021. There shall be separate provision of 1.5 days water storage capacity for Phase –I and II.
			The incoming Main from municipality water supply line shall be led into centralized Fire tanks with an overflow connection to raw water tanks; thereafter the water shall be treated and stored in domestic water storage tanks.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	There are no water bodies in the project site. The project does not envisage any alterations in water courses or change in drainage or the land surface affecting drainage or run-off.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	During construction phase, workers and construction materials will be transported to the project construction site. During operation phase, increased traffic will be observed.
1.26	Long-term dismantling or decommissioning or restoration works?	No	NA
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	NA
1.28	Influx of people to an area in either temporarily or permanently?	Yes	During construction phase, local labourers will be hired from the vicinity of the site; no influx of migrant labour is foreseen. Hence, setting up of labour camps is not envisaged.
			During operation phase, there will influx of working population and also residential population.
1.29	Introduction of alien species?	No	There is no alien floral species at the proposed site.
1.30	Loss of native species or genetic diversity?	No	The project construction activities will necessarily comprise of removal of vegetation. Clearing of vegetation on the site will involve removal of local floral species found on the site. However, the degree of impact will be low as the disturbance is going to confine to the construction period only.
1.31	Any other actions?	No	NA

B. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):



S.No.	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	Yes	About 89.72 ha of land have been earmarked for development of Exhibition cum Convention Centre (ECC). The selected site is relatively flat and is unobstructed with majority being agricultural land. Notification has been issued by Ministry of Urban Development dated 12 th May, 2016 describing the modification in the land use of land proposed for development of ECC falling in Zone-II (Dwarka) to Public, Semi Public and socio-cultural facilities.
2.2	Water (expected source & competing users) unit: KLD	Yes	During construction phase, approx. 2.1 MLD will be required for all construction works and will also meet water requirement for domestic purpose and workers at site. The water required for both drinking and construction activities during the construction phase will be sourced from DJB through water tankers.
			It has been estimated that the total water demand of the project during operation phase is approx. 10.2 MLD water (4.2 MLD for Phase I and 6.0 MLD for Phase II). This will be met by using fresh water (2.0 MLD for Phase I and 2.9 MLD for Phase II) and recycled treated sewage water (2.2 MLD for Phase I and 3.1 MLD for Phase II). Fresh water will be used for domestic purposes. Waste water will be treated in two planned STPs (2.75 MLD for Phase I and 3.95 MLD for Phase II) respectively and the treated waste water will be used in landscaping, HVAC cooling tower.
2.3	Minerals (MT)	No	No such usage of minerals is envisaged.
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	It has been proposed that the construction material will be sourced only from authorized quarries in and around the region. Two quarry sites - Badarpur stone quarry and Jaitpur Quarry situated approximately 26km and 29km have been identified to source stones, aggregates, sand, etc. Steel and cement will be purchased from reputed manufacturers with valid test certificates as per BIS specifications. Aluminium, bricks, stones, marbles, paint, tiles, electrical ware, glass will be purchased from local markets. All material will be delivered to site and shall be processed for final installation at site only. Details on quantities will be provided at the detailed master
			plan level.
2.5	Forests and timber (source – MT)	Yes	Wood for Doors shutters/ furniture, windows will be sourced from authorised vendors. Details on quantities will be provided at the detailed master plan level.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	During construction phase of the project, no labor camps have been planned, power requirement will only be limited to operation of construction equipments and machinery, that will sourced from nearest grid substation. 250 KVA x 6 Nos,



				5 KVA x 12 Nos of capa be used for power back	-
			During operation p and Phase II- 60 M development. The Delhi Transco subs nearby EHV substated from BSES. Centrated for the Exhibition H Administration and It has been proposed provided with Eme	hase, a total of 100 MW IW) power demand is estation through dual feedation 220/66 kV as per in alized DG power backup lalls, Convention Centred common utility complex ed that the following built the following locations	(Phase I - 40 MW stimated for whole power supply from der, EHT from the information received shall be provided a conly. Idings shall be at 11 kV through
			Land use	1 kV DG Selection	415 V DG Selection
			Exhibition Hall- 1,2,3,4,5, Conventional Centre, Foyer & Arena	45 No. Each 2 MVA	-
			Hotel (5 Star)	-	3 No. 1500 kVA & 6 No. 750 kVA
			Hotel (4 Star)	-	2 No. 1000 kVA & 2 No. 750 kVA & 1 No. 380 kVA
			Hotel (3 Star)	-	3 No. 1000 kVA & 3 No. 750 kVA
			Service Apartment	-	2 No. 1000 kVA
			Retail	-	7 No. 2000 kVA & 2 X 1500 KVA 1 X 1000 KVA & 1 No. 250 kVA
			Office	-	2 No. 1500 kVA & 8 No. 1000 kVA & 9 No. 750 kVA & 1 No. 500 kVA & 2 No. 320 kVA
			Note: Nos. of DGs and change during opera	re based on the broad e. tion phase	stimate and may
2.7	Any other natural resources (use appropriate standard units)	No	NA		

C. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates,
			wherever possible) with source of information data

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3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	During construction phase, usage of maximum of 1m³/ day of High Speed Diesel for operation of Diesel Generators is envisaged. During operation phase, It is proposed to provide onsite underground bulk HSD oil storage for the complex to meet the HSD fuel requirements of the DG sets. The storage capacity of HSD shall be adequate to cater continuous DG operation for 24 hours.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Considering that the Najafgarh storm water drain lies 1.5km towards west of site, the proposed project area will be equipped with necessary medical facilities to combat any outbreak of water-borne diseases. As a result, occurrence of vector borne diseases is likely to reduce.
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Living conditions will improve due to change in land use from agricultural to Exhibition cum convention centre will be internationally recognized.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	NA
3.5	Any other causes	No	From an overall perspective, the implementation of the project will not only provide upscale exhibition space but also attract new investments and boost economic activity in the region.

D. Production of solid wastes during construction or operation or decommissioning (MT/month)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	Yes	During construction phase, spoil and overburden waste is likely to be generated. As far as possible, the inert solid waste generated will be reused in construction work of roads/ pavement depending upon the suitability of the material and the unused material shall be dumped to the closest land fill site.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	75-80 TPD (at Peak phase)
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Nil
4.4	Other industrial process wastes	Yes	No industry is envisaged in the project site.
4.5	Surplus product	No	NA
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Approx. 1.7- 2.0 Tonnes
4.7	Construction or demolition wastes	Yes	There will be generation of construction wastes.
4.8	Redundant machinery or equipment	No	NA
4.9	Contaminated soils or other materials	No	No contamination of the soils is envisaged.
4.10	Agricultural wastes	No	No agricultural waste is likely to be produced.
4.11	Other solid wastes	No	NA



E. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	DG sets are proposed for emergency power supply for entire complex during operation phase of ECC. Vehicular pollution generating from transport during operation phase.
5.2	Emissions from production processes	No	N/A
5.3	Emissions from materials handling including storage or transport	Yes	Dust emissions are likely to be produced during material handling, storage and transport.
5.4	Emissions from construction activities including plant and equipment	Yes	Dust emissions will be produced from construction works, machinery engaged in the project.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	During loading & unloading of construction material, dust is likely to be generated. Water will be sprinkled and tarpaulin cover is provided over stored raw material to reduce dust emission. Sewage waste will be discharged to septic tank via soak pit.
5.6	Emissions from incineration of waste	No	There will be no incineration of wastes.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Burning of wastes in open air shall be not permitted.
5.8	Emissions from any other sources	No	NA

F. Generation of Noise and Vibration, and Emissions of Light and Heat:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Noise will be generated from operation of equipment during construction stage. However, necessary measures will be employed to mitigate construction noise. The high noise construction activities will be limited to daytime only During the operational phase, the source of noise will be diesel generator sets. The generators installed shall have acoustic enclosures and will be used during power failure only. The noise level from DG sets will not exceed 75 dB (A) at 1 m distance, during day time and 70 dB(A) during night time. Stack height for the fluepipe from the DG sets shall be as per CPCB norms.
6.2	From industrial or similar processes	No	NA
6.3	From construction or demolition	Yes	Due to the various activities, there will be short-term noise impacts in the immediate vicinity of the project site. The construction activities will include the following noise generating activities: Operation of diesel generators. Excavation etc.
6.4	From blasting or piling	Yes	Depending on the terrain.



6.5	From construction or operational traffic	Yes	There will be increased noise due to vehicular traffic during operation phase.
6.6	From lighting or cooling systems	No	NA
6.7	From any other sources	No	NA

G. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	As this is an area development project, no storage of hazardous chemicals is envisaged, apart from used oil generated during maintenance of DG sets, other equipment etc. It will be stored in drums and kept in covered rooms and will be sold to authorize vendors only. Special care will be taken to prevent leakages and spills. E-waste generated from the complex shall be given to approve recycler of SPCB.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	During construction phase, domestic effluents will be collected in septic tanks followed by soak pits. During operation phase, two sewage treatment plants have been proposed of capacities of 2.75 MLD for Phase-I and3.95 MLD for Phase-II respectively.
7.3	By deposition of pollutants emitted to air onto the land or into water	No	-
7.4	From any other sources	No	NA
7.5	Is there a risk of long term buildup of pollutants in the environment from these sources?	No	NA

H. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	Yes	Generation of hazardous wastes is not expected, except generation of used oil from DG sets, other equipment. Hence, there will be minimal chances for explosions, spillages and fire.
8.2	From any other causes	No	NA
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	Yes	New Delhi falls in Zone-IV of earthquake zones-according to the Indian Standard Seismic Zoning Map; detailed disaster management plan will be prepared for the site. Chances of events involving flooding in the area are very less likely.
			Landslide: area is a flat land, Hence N.A

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I. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) housing development extractive industries supply industries other	Yes	ECC will be an integrated complex with a host of mutually beneficial facilities like exhibition halls, convention centers, banquet halls, auditoria, hotels, and retail services. There will be population influx to the region due to primary and secondary employment opportunities. It is envisaged that development of ECC, will not only provide exhibition space but also attract new investments and boost existing economic activity in the region.
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	Development of ECC will lead to economic expansion and urban development of the city.
9.3	Set a precedent for later developments	Yes	ECC is being designed and developed under IGBC platinum rating, where principles of sustainability have been incorporated into the design.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	ECC is envisioned to be on a scale of a Central Business District, which will be having a similar effect as of Pragati Maidan.

J. Environmental Sensitivity

S.No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	 Qutub Minar There is no National Park/ Sanctuary or Bio Sphere within 15 km radius of project site. 	13.25 km, SE
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	 Rajokri Protected Forest Aravali Biodiversity Park There are no major water courses/wetlands in the vicinity of ECC site except, Najafgrah storm water drain Qutub Vihar Park lake 	8.5km, SE 10km ,NE 1.5km- West 2.5km-NW
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	There are no established breeding, nesting, foraging sites for any endangered animal or migratory birds within 15 km radius of project site.	
4	Inland, coastal, marine or underground waters	No	
5	State, National boundaries	Haryana State Boundary	5.5km, SW
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	



7	Defence installations	Delhi Cantonment	9km, NE
8	Densely populated or built-up area	– Dwarka – Kapashera – Bijwasan	4km,North 4km, SE 2km, SSE
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Hospitals: - BENSUPS Multi Specialty Hospital - Ayushman Hospital - Human Care - Columbia Asia Hospital - Umka Hospital	2.5km, NW 2.5km, NNW 3.5km,NE 2.5km ,SSW 3km,SW
		Schools: - Senior Secondary School - Paramount International School - Nehru Academy School - Infant Jesus School - Ambedkar University	0.5km,NE 2.5km, NE 1.5km, NNW 1.5km, NW 2.5km,North
		Places of Worship: - St. Pius X Syro-Malabar Catholic Church - Radhaswami Ashram - Nirmal Dham(Sahaja Yoga Ashram)	0.5km,NW 2.5km,North 1.5km, NW
		Community Facilities: - Police Station - Shopping mall site - Amusement park site - Cremation ground - Allahabad Bank	1km,NE 1.5km, NE 3km,NE 0.5km,North 2.5km, NE
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	The Region is categorized as Seismic Zone IV by the Bureau of India Standards.	

(IV). Proposed Terms of Reference for EIA studies

Not Applicable for Category 8 (b) Projects

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