



सत्यमेव जयते

File No: SEAC/HR/2024/217

Government of India

Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), HARYANA)



Dated 31/01/2025



To,

M/S KNORR BREMSE INDIA PRIVATE LIMITED
51/4 KM Stone, Village & P.O. Baghola, Delhi Mathura Road (NH-2), Palwal, Haryana-121102.
knorrbremseindiapvtltd@gmail.com

Subject: Environment Clearance for proposed expansion of existing industrial Unit in the Revenue Estate of Village-Baghola, Tehsil and District Palwal, Haryana by M/s Knorr Bremse India Private Limited.

Sir/Madam,

This has reference to your Proposal No. **SIA/HR/INFRA2/497869/2024** dated **23.09.2024** subsequent letter dated **06.11.2024** and **19.12.2024** for obtaining **Environmental Clearance** under Category **8(a)** of EIA Notification dated 14.09.2006 along with submission of due Scrutiny fee (as applicable) of **Rs. 2,00,000/- vide DD No. 708762 dated 29.08.2024** (in compliance of Haryana Government, Environment & Climate Change, Department Notification No. DE&CCH/3060 dated 14.10.2021). The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, Form1-A, Conceptual Plan and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MoEF&CC, GoI vide their Notification dated 21.02.2022, in its **303rd meeting held on 25.10.2024**.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24C3806HR5289044N
(ii) File No.	SEAC/HR/2024/217
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	8(a) Building / Construction Proposed expansion of existing Industrial Unit in the revenue estate of Village-Baghola, Tehsil and District Palwal, Haryana being developed by M/s Knorr Bremse India Private Limited
(vii) Name of Project	KNORR BREMSE INDIA PRIVATE LIMITED
(viii) Name of Company/Organization	PALWAL, HARYANA
(ix) Location of Project (District, State)	SEIAA
(x) Issuing Authority	

(xii) Applicability of General Conditions no

(xiii) Applicability of Specific Conditions no

3. It is inter-alia, noted that the project involves in the **Environment Clearance for proposed expansion of existing industrial Unit in the Revenue Estate of Village-Baghola, Tehsil and District Palwal, Haryana**

4. The basic details of project are as under:

S.No.	Particulars	Existing	Proposed	Total
1.	Online Proposal Number: SIA/HR/INFRA2/497869/2024			
2.	Latitude	28°12'11.39"N	28°12'15.23"N	28°12'11.39"N & 28°12'15.23"N
3.	Longitude	77°18'34.25"E	77°18'36.53"E	77°18'34.25"E & 77°18'36.53"E
4.	Total Plot Area (sqm.)	68,037.20	20,232.00	88,269.20
5.	Total Net Plot Area/CLU Area (sqm.)	52,384.90	20,232.00	72,616.90
6.	Proposed Ground coverage (sqm.)	20,263.91	18,263.06	38,526.98
7.	Proposed FAR area (sqm.)	29,129.11	25,857.66	54,986.77
8.	Proposed Non FAR area (sqm.)	684.43	320.61	1,005.05
9.	Total Built Up area (sqm.)	29,813.54	26,178.28	55,991.82
10.	Total Green Area (sqm.)	--	--	Total green area of the project is 25,247.39 m ² (Approx. 28.60% plot area) in which block plantation area 12187.39 m ² (Approx.13.80 % of total plot area).
11.	Employment (nos.)	1,980	770	2,750
12.	Total Raw/Fresh water Requirement (Domestic & Industrial Use)(KLD)	80	50	130
13.	Total Raw/Fresh water Requirement for domestic use (KLD)	50	30	80
14.	Total Raw/Fresh water from RO for domestic use (KLD)	40	25	65
15.	Recycled /treated water requirement from STP (KLD)	52	28	80
16.	Total Wastewater generation from domestic Use	49	31	80
17.	Capacity of STP (KLD)	60	40	100
18.	Total water requirement for Industrial use (KLD)	65	95	160
19.	Total Raw/Fresh water Requirement for industrial Use (KLD)	5	45	50
20.	Recycled /treated water requirement from ETP (KLD)	60	50	110
21.	Total Effluent generation from Industrial Use	60	50	110
22.	Capacity of ETP (KLD)	75	45	120
23.	Maximum number of floors	G+1F	G+2F	G+2F
24.	Solid Waste Generation (kg/day)	571	216	787
25.	Biodegradable waste (kg/day)	228	86	315

26.	Non-Biodegradable waste (kg/day)	342	130	472
27.	Organic Waste Convertor (Kg)	500 (2×250)	--	500 (2×250 Kg/day)
28.	a) Hazardous Waste generation (TPA)	327.825	131.13	458.955
	b) Used/spent oil (5.1)	2.825	1.13	3.955
	c) Wastes/residues containing oil (5.2)	5	2	7
	d) Phosphate sludge (12.5)	60	24	84
	e) Chemical sludge from waste water treatment (35.3)	100	40	140
	f) Empty barrels/containers/ liners contaminated with hazardous chemicals/wastes (33.1)	100	40	140
	g) Process wastes, residues & sludges (21.1)	60	24	84
29.	Plastic Waste (TPA)	20	15	35
30.	E-Waste (TPA)	2	5	7
31.	Battery Waste (TPA)	0.3	0.1	0.4
32.	Other Waste (Metal, wooden, paper and glass scrap) (TPA)	1600	600	2200
33.	Construction & demolition waste (TPA)	--	1.195	1.195
34.	Rain water Harvesting	One Tank of capacity 1540 m ³ with 8 recharge wells and one percolation pond of capacity 1500 m ³ with 6 recharge wells	Percolation Pond of 1440 m ³ & Recharge Trench of 192.5 m ³	Percolation Pond of 1440 m ³ & Recharge Trench of 192.5 m ³ (one each)
35.	Total Parking ECS provided (nos.)	97	87	184
36.	Total Power Requirement (KVA)	4000	999	4999
37.	Details of Power backup (DG/GG Sets)	2×500 kVA+2×1500 KVA	9000 KW (2×1500 KW+3×2000 KW)	(DG Sets =4000 KVA 2×500 kVA+2×1500 KVA) & (GG Sets =9000 KW (2×1500 KW+3×2000 KW)
38.	Capacity of Solar Panel (KWp)	925	Nil	925
39.	Name of product (Components i.e. Railway doors, brake system, door drive, and other railway components)	Components-10000 Numbers/ day	Components-10000 Numbers/ day	Components-20000 Numbers/ day
40.	Name of Raw Materials	1.Ferrous Material-45 Metric Tonnes/day 2.Non Ferrous Material-2 Metric Tonnes/day	1.Ferrous Material-55 Metric Tonnes/day 2.Non Ferrous Material-10 Metric Tonnes/day	1.Ferrous Material-100 Metric Tonnes/day 2.Non Ferrous Material-12 Metric Tonnes/day
41.	Total Project Cost (in Crore) i) Land Cost ii) Construction cost	376.45	541.15	917.60
42.	EMP Budget (lakhs)	Capital Cost	1176.52	Rs. 40 lakh construction phase
		Recurring Cost		Rs. 10 lakh operation phase
		Capital Cost		Rs. 130 lakh construction phase
		Recurring Cost		Rs. 28 lakh operation phase
	EMP Budget outside	Improvement of infrastructure of Government		Rs. 75 lakh

		the Project Site	School		
43.	Incremental Load in respect of:	PM 2.5	--	--	0.49029 g/m3
		PM 10	--	--	0.99531 g/m3
		SO ₂	--	--	0.58552 g/m3
		NO ₂	--	--	5.8229 g/m3
		CO	--	--	0.0021105 mg/m3
44.	Construction Phase:	i) Power Back-up	--	--	Existing Power capacity and source
		ii) Water Requirement & Source	--	--	Fresh water – 30 KLD for drinking & sanitation. Source: Fresh water – Borewell Construction Water STP treated
		iii) STP	--	--	Existing STP of total capacity 60 m3/hr
		iv) Anti-Smog Gun	--	--	01 Nos of Anti-smog gun

EMP Budget

During Construction Phase			During Operation Phase		
Description	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs per Year)	Description	Capital Cost (in Lakhs)	Recurring Cost (In Lakhs per Year)
Sanitation and Wastewater Management (Modular STP)	5.00	3.00	Waste Water Management (Sewage Treatment Plant)	20.00	5.00
Garbage & Debris disposal	0.00	2.00	Waste Water Management (Effluent Treatment Plant)	30.00	5.00
Tree plantation	10.00	1.00	Solid Waste Management (Dust bins & OWC)	10.00	5.00
Air, Noise, Soil, Water Monitoring	0.00	1.00	Tree plantation	30.00	6.00
Rainwater harvesting system	5.00	1.00	Monitoring for Air, Water, Noise & Soil	0.00	1.00
Dust Mitigation Measures Including site barricading, water sprinkling and anti-smog gun)	20.00	2.00	Rainwater harvesting system	0.00	1.00
			Stack height for DG Sets and its acoustics	40.00	5.00
Total	40.00	10.00	Total	130.00	28.00

EMP Budget outside the Project Site (CER)

Particular	Amount
Improvement of infrastructure of Government School (CER)	75.00 Lakhs

Total EMP budget

Component	Capital Cost (INR Lakh)	Recurring Cost (INR Lakh/Yr)
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During Construction Phase.	40.00	10.00
During Operation Phase	130.00	28.00
Budget for nearby Government School	75.00	0.00
Previous Expenditure done	1069.80	106.72
Total	1314.80	144.72

5. In view of the recommendations made by State Expert Appraisal Committee (SEAC) in the said case and further consideration of the documents/details submitted by the Project Proponent; the Authority after discussions decided during **191st Meeting held on 19.12.2024 “GRANT ENVIRONMENT CLEARANCE” to M/s Knorr Bremse India Pvt. Ltd. as per CLU issued by DTCP vide Memo No. F-1218-JE(SJ)-2011/2718 dated 20.04.2011, Memo No. F-1218-JE (SN)-2012/28569 dated 14.01.2013, CLU/PL-1589-A/CTP/216/2021 dated 07.01.2021 and CLU/PL-1589-B/CTP/27963/2021 dated 02.11.2021** under category **8(a)** of EIA Notification dated 14.09.2006 of the Ministry of Environment and Forest, Government of India.

Copy To

1. Director (IA Division), MoEF& CC, GoI, Indira Paryavaran Bhavan, Zorbagh Road-New Delhi-110003.
2. Chairman, State Environment Impact Assessment Authority, Bay's No. 55-58, Prayatan Bhawan, Sector-2, Panchkula, Haryana.
3. Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.
4. Director, Environment & Climate Change Department, Haryana, Bay's No. 55-58, Prayatan Bhawan, Sector-2, Panchkula, Haryana.
5. Director General, Town & Country Planning Haryana, Plot No. 3, Sector - 18A, Madhya Marg, Chandigarh- 160018.
6. Regional Office, Ministry of Environment, Forests & Climate Change, Govt. of India, Bay's No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh-160018.
7. Concerned File/ Office Copy.

Annexure 1

Standard EC Conditions for (Building / Construction)

1. Statutory Compliance

S. No	EC Conditions
1.1	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.
1.2	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
1.3	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
1.4	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

S. No	EC Conditions
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
1.6	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
1.7	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
1.8	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
1.9	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
1.10	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2.2	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
2.3	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
2.4	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
2.5	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
2.6	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust

S. No	EC Conditions
	pollution.
2.7	Wet jet shall be provided for grinding and stone cutting.
2.8	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
2.9	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.
2.10	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
2.11	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
2.12	For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
3.2	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3.3	Total fresh water use shall not exceed the proposed requirement as provided in the project details.
3.4	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
3.5	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
3.6	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.

S. No	EC Conditions
3.7	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
3.8	Use of water saving devices/fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
3.9	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3.10	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
3.11	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
3.12	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
3.13	All recharge should be limited to shallow aquifer.
3.14	No ground water shall be used during construction phase of the project.
3.15	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
3.16	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
3.17	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
3.18	No sewage or untreated effluent water would be discharged through storm water drains.
3.19	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

S. No	EC Conditions
3.20	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
3.21	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
4.2	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
5.2	Outdoor and common area lighting shall be LED.
5.3	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5.4	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
5.5	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
5.6	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20%

S. No	EC Conditions
	of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

6. Waste Management

S. No	EC Conditions
6.1	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
6.2	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
6.3	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
6.4	Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
6.5	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6.6	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
6.7	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
6.8	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
6.9	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
6.10	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

7. Green Cover

S. No	EC Conditions
7.1	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling

S. No	EC Conditions
	shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
7.2	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
7.3	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
7.4	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

8. Transport

S. No	EC Conditions
8.1	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria: a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b) Traffic calming measures. c) Proper design of entry and exit points. d) Parking norms as per local regulation.
8.2	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
8.3	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

9. Human Health Issues

S. No	EC Conditions
9.1	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
9.2	For indoor air quality the ventilation provisions as per National Building Code of India.
9.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
9.4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
9.5	Occupational health surveillance of the workers shall be done on a regular basis.
9.6	A First Aid Room shall be provided in the project both during construction and operations of the project.
9.7	Corporate Environment Responsibility The project proponent shall comply with the provisions of CER, as applicable.
9.8	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/ or share holders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
9.9	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
9.10	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

10. Miscellaneous

S. No	EC Conditions
10.1	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.

S. No	EC Conditions
10.2	The environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
10.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
10.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
10.5	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
10.6	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
10.7	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report
10.8	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
10.9	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
10.10	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10.11	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.
10.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
10.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

S. No	EC Conditions
10.14	The Ministry/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.15	The Ministry/SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
10.17	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
10.18	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
10.19	The validity of this environment clearance letter is valid up to 10 years from the date of issuance of EC letter in accordance with the MoEF & CC, GoI Notification No. S.O.1807 (E), dated the 12th April, 2022. The environment clearance conditions applicable till life space project will continue to apply. In case of violation the action will be taken as per the laid down law of land. Compliance report shall be sent to this office till life of the project.
10.20	If project is not completed within the validity period then the project proponent shall submit the application for extension of validity within one month before the lapse of validity period of Environment Clearance

11. Specific Conditions

S. No	EC Conditions
11.1	The PP shall take the necessary approval from PESO, if applicable.
11.2	The PP shall follow the compliance of Public Liability Insurance Act, 1991.
11.3	The PP shall carry the isolated storage of each chemical to be stored with the existing precautions as per the MSHIC Rules, 1989 and abide by all conditions of MSDS.
11.4	The Approval of the Competent Authority shall be obtained for structural safety of building code due to earthquakes, adequacy of firefighting equipments etc. as per National Building Code including protection measures from lightening etc.
11.5	The PP shall ensure that total EMP Budget shall be spent on project during construction as well as during operational phase as per table given above. The EMP cost on Socio Economic activities shall be used before the commencement of the project & EMP recurring inside the project shall be implemented throughout the operation of the project.

S. No	EC Conditions
11.6	The PP and consultant agree to display the First Aid measure, Fire Fighting Measure, Accidental Release measure, Exposure and control (Personal Measure) at the site.
11.7	The project proponent shall upload the status of compliance of the basic details (given in above tables), stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
11.8	Sewage shall be treated in the STP based on latest Technology with tertiary treatment i.e. Ultra Filtration. The Treated effluent from STP shall be recycled/ reused for flushing, DG cooling, Gardening and HVAC.
11.9	The PP shall comply with provisions of Occupational Safety health and working conditions Code 2019.
11.10	The Project Proponent would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coli forms and other pathogenic bacteria.
11.11	The Project Proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
11.12	Separate wet and dry bins must be provided for facilitating segregation of waste. Solid Waste shall be segregated into wet garbage and inert materials. Wet Garbage shall be composted in Organic waste convertor. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The Inert waste from the project will be sent to solid waste dumping site through authorized vender.
11.13	The PP shall implement the EMP and assess that the implemented EMP is adequate and periodic environmental audits shall be conducted and maintained the records of audit. These audits shall be followed by Corrective action plan to correct the various measures identified during the audits (CAP).
11.14	The PP shall install the Eco Friendly Green Transformer based on ester oil to reduce the carbon footprint. The PP shall shift to gas based generator set when the gas is available. The PP shall install APCM for the DG set. The PP shall reduce the SO ₂ load by 30% if HSD is used.
11.15	The PP shall not carry any construction below the HT Line passing through the project, if any.
11.16	The PP shall not carry any construction above or below the Revenue Rasta, if any.
11.17	The PP shall obtain the permission regarding withdrawal of ground water from CGWA/State water Authority, Haryana before the start of the project and also obtained the CTO from HSPCB after the approval from CGWA.
11.18	The PP shall not allow parking of the vehicles on the roads or revenue Rasta outside the project area.

S. No	EC Conditions
11.19	The PP shall not give occupation or possession before the water supply and sewage connection permitted by the competent authority.
11.20	The PP shall develop the onsite and offsite emergency plan in consultation with the regulatory authority.
11.21	The PP shall install Digital water level recorder for monitoring the water recharge and carry out quarterly maintenance and cleaning of Percolation Pond and Recharge Trench .
11.22	The PP shall ensure the compliance of provisions of Plastic Waste Management (Amendment) Rules, 2022 relevant for the project.
11.23	The PP may provide electric charging stations to facilitate electric vehicle commuters.
11.24	PP shall submit timeline regarding implementation of green plan.
11.25	The PP shall not allow establishment of any category A or B type industry in the project area.
11.26	The PP shall carry out the quarterly awareness programs for the staff.
11.27	Any change in stipulations of EC will lead to Environment Clearance void-ab-initio and PP will have to seek fresh Environment Clearance.
11.28	The PP shall comply with provisions of Manufacturing storage and import of Hazardous chemical rules.
11.29	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority.
11.30	Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
11.31	A minimum of 1 tree for every 80sqm of land should be planted and maintained. The Existing trees will be counted for this purpose. The landscape planning should include plantation of native species.
11.32	The species with heavy foliage, broad leaves and wide canopy cover are desirable.
11.33	Water intensive and/or invasive species should not be used for landscaping.
11.34	As proposed total green area of the project is 25,247.39 m² (Approx. 28.60% plot area) in which block plantation area 12187.39 m² (Approx.13.80 % of total plot area).
11.35	Percolation Pond of 1440 m³ & Recharge Trench of 192.5 m³ (one each) shall be provided at project site.
11.36	The PP shall install required number of Anti Smog Guns at the project site as per the requirement of HSPCB.
11.37	The PP shall install Capacity of Solar Panel of 925 (KWp).

S. No	EC Conditions
11.38	The PP shall carry out plantation of saplings in the proposed green area as a part of the tree plantation campaign “Ek Ped Maa Ke Naam” and shall upload the details of the same in the MeriLiFE Portal (http://merilife.nic.in).
11.39	The PP shall get project electrification plan approved from the competent authority before operation of the project.
11.40	The PP shall register themselves on the http://dustapphspcb.com portal as per the Direction No.14 dated 11.06.2021 issued regarding dust mitigation by Commission for Air Quality Management in National Capital Region and Adjoining Areas.
11.41	The Project Proponent will instal DG sets for the project as per latest guidelines of GRAP, NCAP & CPCB.
11.42	The Project Proponent will undertake prescribed mitigation measures during the construction period.
11.43	The Project Proponent will adopt nearby government school for improvement of infrastructure with a CER budget of Rs.75 lakh.

