



सत्यमेव जयते

File No: EC/SEIAA/2025-26/4007/2025

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment  
Authority(SEIAA), JHARKHAND)

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Dated: 25/02/2026



To,

KRISHNAM KUMAR  
ACE SECURITIES AND DEVELOPERS PRIVATE LIMITED  
OPPOSITE AYSHA RESIDENCY, BARGAIN ROAD, VILLAGE- BARGAIN , RANCHI,  
JHARKHAND, RANCHI, JHARKHAND, 834009  
acesdeveloperpvtltdranchi@gmail.com

**Subject:** Grant of EC under the provision of the EIA Notification 2006-regarding.

**Sir/Madam,**

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Proposed Residential building "Highland Park" at Village- Bargain, District-Ranchi, State- Jharkhand submitted to Ministry vide proposal number SIA/JH/INFRA2/564545/2026 dated 13/01/2026.

2. The particulars of the proposal are as below:

(i) EC Identification No.	EC26C3801JH5780946N
(ii) File No.	EC/SEIAA/2025-26/4007/2025
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	8(a) Building / Construction
(vii) Name of Project	Proposed Residential building "Highland Park" at Village- Bargain, District-Ranchi, State- Jharkhand
(viii) Name of Company/Organization	ACE SECURITIES AND DEVELOPERS PRIVATE LIMITED
(ix) Location of Project (District, State)	RANCHI, JHARKHAND
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

Plot/Survey Khasra Nos.: 1235 , 1286 , 1288 , P-1233 & P-1236

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by State Environment Impact Assessment Authority(SEIAA) Appraisal Committee of SEIAA in the meeting held on 10/02/2026. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A, B and C)/EIA & EMP Reports/presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 10/02/2026, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of EC under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).
7. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee hereby decided to grant EC for instant proposal of M/s. KRISHNAM KUMAR under the provisions of EIA Notification, 2006 and as amended thereof.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. This issues with the approval of the Competent Authority.

**Copy To**

N/A

**Annexure 1**

**Standard EC Conditions for (Building / Construction)**

**1. Statutory Compliance**

S. No	EC Conditions
<b>1.1</b>	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.
<b>1.2</b>	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.
<b>1.3</b>	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.
<b>1.4</b>	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.

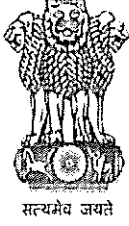
**Additional EC Conditions**

N/A

Annexure 2

**Details of Products & By-products**

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Residential Building	Residential Building	38723.67	Sqm	Road	



**State Level Environment Impact Assessment Authority, Jharkhand**

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi. Jharkhand-834 004

E-mail: [msseiaa.jhk@gmail.com](mailto:msseiaa.jhk@gmail.com) / website: [www.jseiaa.in](http://www.jseiaa.in)

Letter No. : EC/SEIAA/2025-26/4007/2025/

Ranchi, Date :

**To: Shri Krishnam Kumar,  
Director,  
M/s ACE Securities And Developers Private Limited,  
Plot No. - 1236/119, Bargain Road, ,  
Opp Aysha Apartment, Village : Bargain,  
District : Ranchi, Jharkhand : 834009.**

**Sub. : Environmental Clearance for the project "Proposed Residential Building "Highland Park" by M/s ACE Securities and Developers Private Limited at Village : Bargain, District : Ranchi, Jharkhand. (Proposal No : SIA/JH/INFRA2 /564545/2026) – regarding.**

**Ref. : Your application no. ACE/01/26, dated – 06.01.2026.**

It is in reference to the project "Proposed Residential Building "Highland Park" by M/s ACE Securities and Developers Private Limited at Village : Bargain, District : Ranchi, Jharkhand" submitted by you for seeking prior Environmental Clearances (EC).

This is a new project which has been taken for appraisal on 19.01.2026.

**Project Sector: 8(a) Building and Construction Projects , Category: B2.**

**Application for Environment Clearance (EC) as per EIA notification, 2006.**

M/s ACE Securities and Developers Private Limited has Proposed Residential building "Highland Park" at Village- Bargain, District-Ranchi, State- Jharkhand on the total land area measuring 6102.45 Sqm and total built up area is 38723.67 Sqm.

**Salient Features of the Project**

Particulars	
Latitude	23°24'14.41"N
Longitude	85°22'1.92"E
<b>Total Plot area</b>	<b>6102.45 Sqm.</b>
Permissible FAR @ 3.5	21358.58 Sqm.
Platinum Rating @ 7% (Green House)	1495.10 Sqm.
<b>Total Permissible FAR @ 3.745</b>	<b>22853.68 Sqm.</b>

Particulars	
Proposed FAR @ 3.738	22809.46 Sqm.
Non FAR Area (Amenities, Basement, etc.)	15914.21 Sqm.
<b>Total Built-up Area</b>	<b>38723.67 Sqm.</b>
Parking required	3352 Sqm.
Proposed parking	4110 Sqm.
Surface Parking area	150.00 Sqm.
Permissible Ground Coverage @50%	3051.23 Sqm.
Proposed Ground Coverage	2128.30 Sqm.
Mislenous (Paved, Ramp, STP, etc.)	197.38 Sqm.
Greenbelt area Provided @16%	976.39 Sqm.
Green Cover area @13.02%	794.75 Sqm.
Road Area	1855.63 Sqm.
Swimming Pool (Capacity)	136.28 Cum.
Total No. of Dwelling Units	176 Nos.
Rain Water Harvesting Pits	3 Nos.
Number of Tower	Tower A, B, C and Club House
Basement	02 Nos.
Stories	B1+B2+G+16
Maximum Height of the Building	51 m
Power Requirement	1510 KW
Power Backup DG capacity	1200 KVA (3X400)
Total Water Requirement	110 KLD
Fresh/Domestic Water Requirement	71 KLD
Reuse of Recycled Water	48 KLD
Waste water Generated	95 KLD
STP Capacity	120 KLD
Solid Waste Generated (Operational)	483 Kg/day
Biodegradable Waste (Operational)	193 Kg/day
Non-Biodegradable Waste (Operational)	290 Kg/day
Total Cost of the project (Rs.)	70.00 Cr.
EMP Budget	During Construction: Capital: 48 Lakhs Recurring: 15 Lakhs Operational Cost: Capital: 232 Lakhs

Particulars		
		Recurring: 30 Lakhs
Connectivity	Ranchi Junction Railway Station	Approx. 7.00 Km towards SSW
	Mesra Railway station	Approx. 5.50 Km towards ENE
	Tatisilwai Railway Station	Approx. 8.00 Km towards ESE
	Birsa Munda Airport, Ranchi	Approx. 10.00 km towards SSW

#### LAND DETAILS

Khata no.	Plot no.
112, 15, 28, 132 & 119	1235, 1286, 1288, 1233 (P) & 1236 (P)

#### Land Summary

Sl. No.	Document Type	Khata No	Plot No.	Area (in decimal)	Area in Sqm
1	Development Agreement	112	1235	56	3459.97
		15	1286	10.5	
		28	1288	19	
2	Development Agreement	15	P-1286	10.5	424.90
3	Development Agreement	132	P-1233	12.9	522.02
4	Development Agreement	132	P-1233	12.9	522.02
5	Development Agreement	119	P-1236	29	1173.54
<b>Total</b>				<b>150.8</b>	<b>6102.47</b>

#### STATUTORY CLEARANCES

1	Land Docs	:	Lease agreement : ACE Securities and Developers Private Limited for Development.
2	DFO Territorial	:	DFO, Ranchi Forest Division vide letter no. 2712, dated 13.09.2025 certified that the distance of reserved / protected forest is more than 250 meters from project site.
3	DFO Wildlife	:	DFO, Wildlife Division, Ranchi vide letter no. 388, dated 17.06.2025 certified that proposed project site is out side Eco Sensitive Zone of Palkot Wildlife Sanctuary.
4	CO certificate	:	The CO, Baragai, Ranchi vide letter no. 500 (ii), dated 11.06.2025 has mentioned the plot no. of the project is not recorded as "Jungle - Jhari" in R.S. Khatiyani & Register II.

5	AAI NOC	:	Airport authority of India issued NOC vide NOC ID no. RANC /EAST /B/ 102924/1314401, dated 05.11.2024.
6	Building Plan approval	:	Conceptual Plan submitted.
7	Fire Department	:	Fire Advisory has been issued by Fire Department, Jharkhand, Ranchi, vide memo no. 6885/Tech./2025, dated 25.09.2025.

### Details of Site Surroundings and Connectivity

Connectivity & Site Surroundings			
S. No.	Description		Distance and Direction
1.	Nearest Junction	Ranchi Junction Railway Station	Approx. 7.00 Km towards SSW
	Nearest Railway Stations	Mesra Railway station	Approx. 5.50 Km towards ENE
		Tatisilwai Railway Station	Approx. 8.00 Km towards ESE
2.	Nearest Airport	Birsa Munda Airport, Ranchi	Approx. 10.00 km towards SSW
3.	Nearest Village	Bargain	Adjacent to site
		Bariatu	Approx. 0.97 Km towards SW
		Ohdar	Approx. 2.00 Km towards East
4.	Nearest Highway/Roads	Bargain Road	Adjacent to site towards East
		Booty Road	Approx. 0.30 Km towards South
		SH 20	Approx. 2.25 Km towards East
5.	Nearest School & College	Govt. Urdu Middle School, Bargain	Approx. 0.75 Km towards East
		Govt. Middle School, Shankar Nagar	Approx. 1.85 Km towards West
		Govt. Middle School, Sarhul	Approx. 3.50 Km towards SW
		Ranchi Women's College	Approx. 3.00 Km towards SW
		St. Anne's Intermediate College	Approx. 3.25 Km towards SW
6.	Nearest Hospital	Bhagwan Mahavir Manipal Hospital	Approx. 1.00 Km towards SE
		RIMS	Approx. 1.50 Km towards SW
		Urban Primary Health Care Centre	Approx. 0.60 Km towards NNE
7.	Places of worship	Maha Mrityunjay Temple	Approx. 2.00 Km towards ESE

Connectivity & Site Surroundings		
S. No.	Description	Distance and Direction
	Mohammadi Masjid	Approx. 0.50 Km towards North
	Seventh Day Adventist Church	Approx. 0.30 Km towards SSE
8.	Water Bodies	Jhumar River Kanke Lake Ranchi Lake
		Approx. 3.75 Km towards ENE Approx. 5.25 Km towards West Approx. 6.50 Km towards SW
9.	Nearest Town	Ranchi
		Approx. 6.50 Km towards SSW
10.	Protected Forest/ Zoo	Protected Forest, Baram
		Approx. 9.25 Km towards SSE
11.	Defense	Army Western Cantonment
		Approx. 3.50 Km towards ESE

#### Coordinate of the Project Boundary

S. No.	Latitude	Longitude
1	23° 24' 15.918" N	85° 22' 1.878" E
2	23° 24' 15.700" N	85° 22' 3.374" E
3	23° 24' 15.101" N	85° 22' 3.694" E
4	23° 24' 13.668" N	85° 22' 2.945" E
5	23° 24' 13.503" N	85° 22' 2.348" E
6	23° 24' 13.217" N	85° 22' 1.675" E
7	23° 24' 12.840" N	85° 22' 1.445" E
8	23° 24' 12.410" N	85° 22' 1.202" E
9	23° 24' 12.536" N	85° 22' 0.976" E
10	23° 24' 12.920" N	85° 22' 1.254" E
11	23° 24' 13.099" N	85° 22' 0.539" E
12	23° 24' 14.106" N	85° 22' 0.960" E
13	23° 24' 14.308" N	85° 21' 59.889" E
14	23° 24' 15.251" N	85° 22' 0.380" E
15	23° 24' 15.255" N	85° 22' 1.046" E
16	23° 24' 15.068" N	85° 22' 1.272" E
17	23° 24' 15.038" N	85° 22' 1.758" E
18	23° 24' 16.545" N	85° 22' 3.789" E
19	23° 24' 16.462" N	85° 22' 3.968" E

#### Detailed Area Statement

Sl. No.	Particulars	Details
1.	<b>Total Plot area</b>	<b>6102.45 Sqm.</b>
2.	Permissible FAR @ 3.5	21358.58 Sqm.
3.	Platinum Rating @ 7% (Green House)	1495.10 Sqm.
4.	Total Permissible FAR @ 3.745	22853.68 Sqm.
5.	<b>Proposed FAR @3.738</b>	<b>22809.46 Sqm.</b>
6.	Non FAR Area (Amenities, Basement, etc.)	15914.21 Sqm.
7.	<b>Total Built-up Area</b>	<b>38723.67 Sqm.</b>
8.	Parking required	3352 Sqm.; 4-Wheeler: 240 ECS & Two-wheeler: 176 Nos.
9.	Proposed parking	4110 Sqm.; 4-Wheeler: 279 ECS & Two-wheeler: 311Nos.
10.	Surface Parking area	150.00 Sqm.
11.	Permissible Ground Coverage @50%	3051.23 Sqm.
12.	Proposed Ground Coverage	2128.30 Sqm.
13.	Mislleneous (Paved, Ramp, STP, etc.)	197.38 Sqm.
14.	Greenbelt area Provided @16%	976.39 Sqm.
15.	Green Cover area @13.02%	794.75 Sqm.
16.	Road Area	1855.63 Sqm.

**Proposed Block Built-up area details**

Floor	Block A (S+16)		Block B (S+16)		Block C (S+10)		CLUB (G+03)		Basemen t
	FAR	BUA	FAR	BUA	FAR	BUA	FAR	BUA	BUA
Basement 1									3860.16
Basement 2									3860.16
Ground	18.11	795.49	18.11	795.49	15.04	321.25	211.62	216.07	
1 <sup>st</sup>	594.63	729.05	594.63	729.05	334.80	395.69	211.62	216.07	
2 <sup>nd</sup>	593.87	791.33	593.87	791.33	334.80	395.69	211.62	216.07	
3 <sup>rd</sup>	594.63	729.05	594.63	729.05	334.80	395.71	82.24	216.09	
4 <sup>th</sup>	593.87	791.33	593.87	791.33	334.80	395.71			
5 <sup>th</sup>	594.63	729.05	594.63	729.05	334.80	395.69			
6 <sup>th</sup>	593.87	791.33	593.87	791.33	334.80	395.69			
7 <sup>th</sup>	594.63	729.05	594.63	729.05	334.80	395.69			
8 <sup>th</sup>	593.87	791.33	593.87	791.33	334.80	395.69			
9 <sup>th</sup>	594.63	729.05	594.63	729.05	334.80	395.69			
10 <sup>th</sup>	593.87	791.33	593.87	791.33	334.80	395.69			
11 <sup>th</sup>	594.63	729.05	594.63	729.05					

12 <sup>th</sup>	593.87	791.33	593.87	791.33					
13 <sup>th</sup> (Duplex Lower)	594.63	729.05	594.63	729.05					
14 <sup>th</sup> (Duplex Upper)	559.83	777.28	559.83	777.28					
15 <sup>th</sup> (PH Lower)	594.63	729.05	594.63	729.05					
16 <sup>th</sup> (PH Lower)	466.46	777.28	466.46	777.28					
<b>Total</b>	<b>9364.66</b>	<b>12930.43</b>	<b>9364.66</b>	<b>12930.43</b>	<b>3363.04</b>	<b>4278.19</b>	<b>717.10</b>	<b>864.30</b>	<b>7720.32</b>

#### Calculation of Population

Block	Total Dwelling Units / Area	Unit Population	Population
Residential Block	176	9/6/5	990
Visitors	10% of Residential Population		99
Community Hall Seating capacity	116		116
Club House (Indoor Games, Gym & Yoga)	1581.4 sqm	Considering 1 person per 10 Sqm. of BUA	158
<b>Total Population</b>			<b>1363</b>

#### Parking Details

Details	Number	Area in Sqm
Parking Required for residential (Car)	209	2613
<b>Parking Provided for residential (Car)</b>	<b>248</b>	<b>3100</b>
Visitors Parking Required for residential (Car)	31	387.5
<b>Visitors Parking Provided for residential (Car)</b>	<b>31</b>	<b>387.5</b>
Total Parking Required for Car	240	3000
<b>Total Parking Provided for residential (Car)</b>	<b>279</b>	<b>3487.5</b>
Two wheeler Parking Required	176	352
<b>Two wheeler Parking Provided</b>	<b>311</b>	<b>622</b>

#### Calculation of Greenbelt

GREEN AREA DETAIL		
Total Plot Area	6102.45	Sqm.
Total Green area provided @ 29.02 % of Plot Area	1771.14	Sqm.
Green Belt area @16% of Plot area	976.39	Sqm.

Green Cover area @13.02% of plot area	794.75	Sqm.
Total No. of Trees will be Planted	244	nos.

10% of the total number of trees will be planted under the "Ek Ped Maa Ke Naam" campaign.

#### Details of Water Requirement

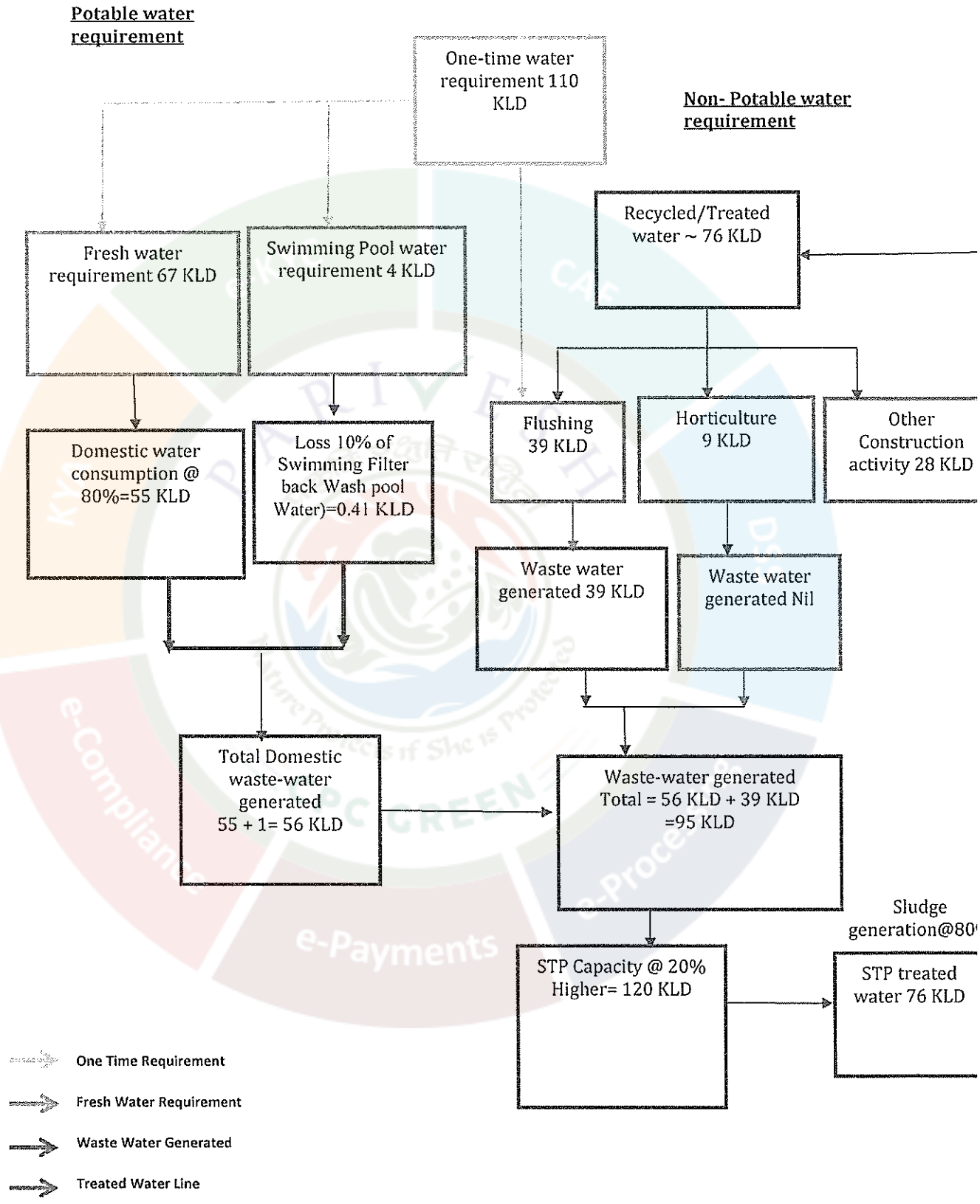
Description	No. of units / Capacity	Population	Unit water consumption (lpcd)	Total water required (Litres)	Fresh water required (Litres)	Flushing (Litres)	Total Wastewater (kld) (80% of domestic +100% Total flushing+ Loss 10% of Swimming Filter back Wash pool Water)
Main Dwelling Units (Residential)	176	990	100 (65+35)	99000	64350	34650	86130
Visitors (10% of the residential population)		99	15 (10+5)	1485	990	495	1287
Community Hall Seating capacity	1	116	15 (10+5)	1740	1160	580	1508
Club House (Indoor Games, Gym & Yoga)	Considering 1 person per 10 Sqm. of BUA	158	45(25+20)	7110	3950	3160	6320
Swimming Pool	136.28 Cu.	3% daily make-up water		4.09	4.09	...	0.41
<b>Subtotal I</b>				<b>109339</b>	<b>70454</b>	<b>38885</b>	<b>95245</b>
				<b>IN KLD</b>	<b>110</b>	<b>71</b>	<b>39</b>
<b>Reuse of treated water</b>							
Horticulture	1771.14	5 ltr/Sqm.		9			
Flushing				39			

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## Water Balance



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*Details of Wastewater Generation and STP Capacity*

Details	Water (KLD)
Water requirement for domestic purpose	71
Wastewater to be generated from domestic use (@ 80% of domestic water requirement)	~56
Water requirement for Swimming Pool	4
Loss 10% of Swimming pool filter Back Wash.	~0.41
Water requirement for Flushing Purpose	~39
Wastewater to be generated from Flushing (@ 100% of flushing requirement)	~39
<b>Total Wastewater generated</b>	<b>~95</b>
<b>STP capacity 20% higher than total waste water</b>	<b>120</b>

STP: Waste water generated is ~95 KLD, which will be treated in the onsite STP of capacity 20% more than the waste water generated i.e. 120 KLD of MBR technology. The treated water available is 76 KLD (which is of 80 % total waste water entering in the STP) and it will be recycled and re-used 39 KLD for flushing, 9KLD for irrigation of landscape area and 28 KLD for other Construction.it fully complies with ZLD requirements. The total dry sludge generation will be 28 kg/day.

**Solid waste Generation details**

S. No.	Category of Solid Waste	Waste Generation Rate	Formula	Total Population	Waste Generated (Kg/day)	Bio-degradable (Kg/day)	Non-biodegradable (Kg/day)
1	Main Dwelling Units (Residential)	0.3 to 0.6 kg/cap/day	Total Population*0.45	990	445.5	178.2	267.30
2	Visitors (10% of the residential population)	0.05 to 0.2 kg/cap/day	Total Population*0.1	99	9.9	3.96	5.94
3	Community Hall	0.1 to 0.3 kg/cap/day	Total Population*0.1	116	11.6	4.64	6.96
4	Club House (Indoor Games, Gym & Yoga)	0.1 to 0.3 kg/cap/day	Total Population*0.1	158	15.8	6.32	9.48

	<b>Total (Kg/day)</b>				483	193	290
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### Total Waste Generation Summary

SI No	Waste Type	Quantity	Management Method
1	Municipal Solid Waste	483 kg/day	Segregation, OWC, recycling & municipal disposal
2	Biodegradable Waste	193 kg/day	On-site composting (OWC)
3	Non-biodegradable Waste	290 kg/day	Recycling & municipal disposal
5	C&D Waste	1936 tonnes	Reuse, recycling & authorized disposal
6	E-Waste	4.2 Kg/Day	Authorized recyclers
7	Hazardous Waste	8.4 Kg/day	Authorized recyclers

### Solid Waste Management

#### Construction Phase

Solid Waste generated during construction phase would include top soil, brick bats, pieces of reinforcing roads, pieces of wood boards & waste of other construction material, cans of paints electrical wire, etc.

Top Soil would be separately stored at pre-defined location within the site & preserved for landscaping. Sub – Soil would be stored for reuse in road making, plinth filling, etc.

Brickbats waste of concrete would also be stored for road construction, etc. Surplus C & D waste would be handed over to Municipal Solid Waste Management Facility. E-Waste & Hazardous waste (cans of paints- would be collected in separates containers. Recyclable wastes including bags, packing, pcs of steel rods sold to rag pickers.

#### Operational Phase

##### Municipal Solid Waste Management

##### 1. Biodegradable Waste

- Includes kitchen and horticulture waste b
- Collected in green-colored bins
- Handed over to municipal authorities as per SWM Rules, 2016
- For waste generation  $\geq 100$  kg/day, on-site organic waste converter is provided

##### 2. Non-Biodegradable Waste

Consists of:

- Recyclable waste
- Non-recyclable combustible waste
- Sanitary waste
- Non-recyclable inert waste
- Includes metal, glass, debris, waste oils, sanitary waste

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**a) Recyclables**

- Includes plastic, metal, glass, etc.
- Separated in white colored bins
- Handed over to local authorized waste pickers/recyclers as per:
- SWM Rules, 2016
- Plastic Waste Management Rules, 2016

**b) Non-Recyclable Waste**

- Includes debris, sanitary waste, etc.
- Segregated in black colored bins
- Disposed in the bins of urban local bodies as per SWM Rules, 2016

Estimated quantity of municipal solid waste Community building & residential building

During operational phase of buildings municipal solid waste would be generated. They would be stored in different colour bins.

- ✓ Recyclable Waste - white
- ✓ Non-Biodegradable Waste - Blue
- ✓ Bio-Degradable Waste -Green
- ✓ E-Waste - Yellow
- ✓ Hazardous Waste - Red

Recyclable Wastes would be handed to rag pickers.

Bio-Degradable Waste would be treated in OWC and the product will be utilize as fertilizer.

E-Waste & Hazardous Wastes would be handed over to authorized recyclers

**C&D waste Management Plan**

- Construction waste will be segregated at source into reusable, recyclable, and non-recyclable categories.
- Excavated earth will be reused within the project site for backfilling and landscaping to the maximum extent possible.
- Reusable materials such as steel, wood, and bricks will be stored separately and reused or sold to authorized recyclers.
- Recyclable C&D waste will be handed over to authorized C&D waste recycling agencies as per Construction and Demolition Waste Management Rules, 2016.
- Non-recyclable inert waste will be transported to designated disposal sites identified by the local authority.

**Radio Active Waste Management:** Radio-active waste will be managed as per Atomic Energy (Safe disposal of radioactive wastes) Rules, 1987 Disposal of Solid Radioactive Waste — An AERB certified, trained and authorized Agency, License and NOCs are already obtained.

**Hazardous & E-Waste Management**

Stored in labeled, secured containers

Disposed through SPCB-authorized recyclers

Waste oil sent to authorized reprocessors

(As per Hazardous & Other Wastes Rules, 2016 and E-Waste Rules, 2016)

### Energy Conservation Measures

S. No.	Net Energy saved (weighted Average Calculation)	
1.	Solar Based lighting will be done in the common areas, Signages, entry gates and boundary walls etc. @ 4 %	72 KVA
2.	LED Based lighting will be done in the dwelling units	23.23 KVA
3.	Usage of energy efficient Lift (VVVF non gear lifts)	30 KVA
	Total Energy saved	125.23 KVA
	Total Energy consumption	1800 KW
	<b>Total Energy saving</b>	<b>6.95 %</b>

Note - Solar-based lighting will be used for common areas, signages, entry gates, boundary walls, etc., reducing energy consumption and promoting sustainability

### Organization Structure

#### Organizational Structure:

##### Introduction

The Environmental Management Plan (EMP) Cell has been established to ensure environmental sustainability and compliance with regulatory requirements for the building construction project. This project aims to minimize environmental harm, promote sustainable practices, ensure compliance with regulations, and foster community engagement and transparency. The EMP Cell will provide a framework for identifying, assessing, and mitigating potential environmental impacts associated with the Construction activities.

##### Environmental Policy

Our company is committed to:

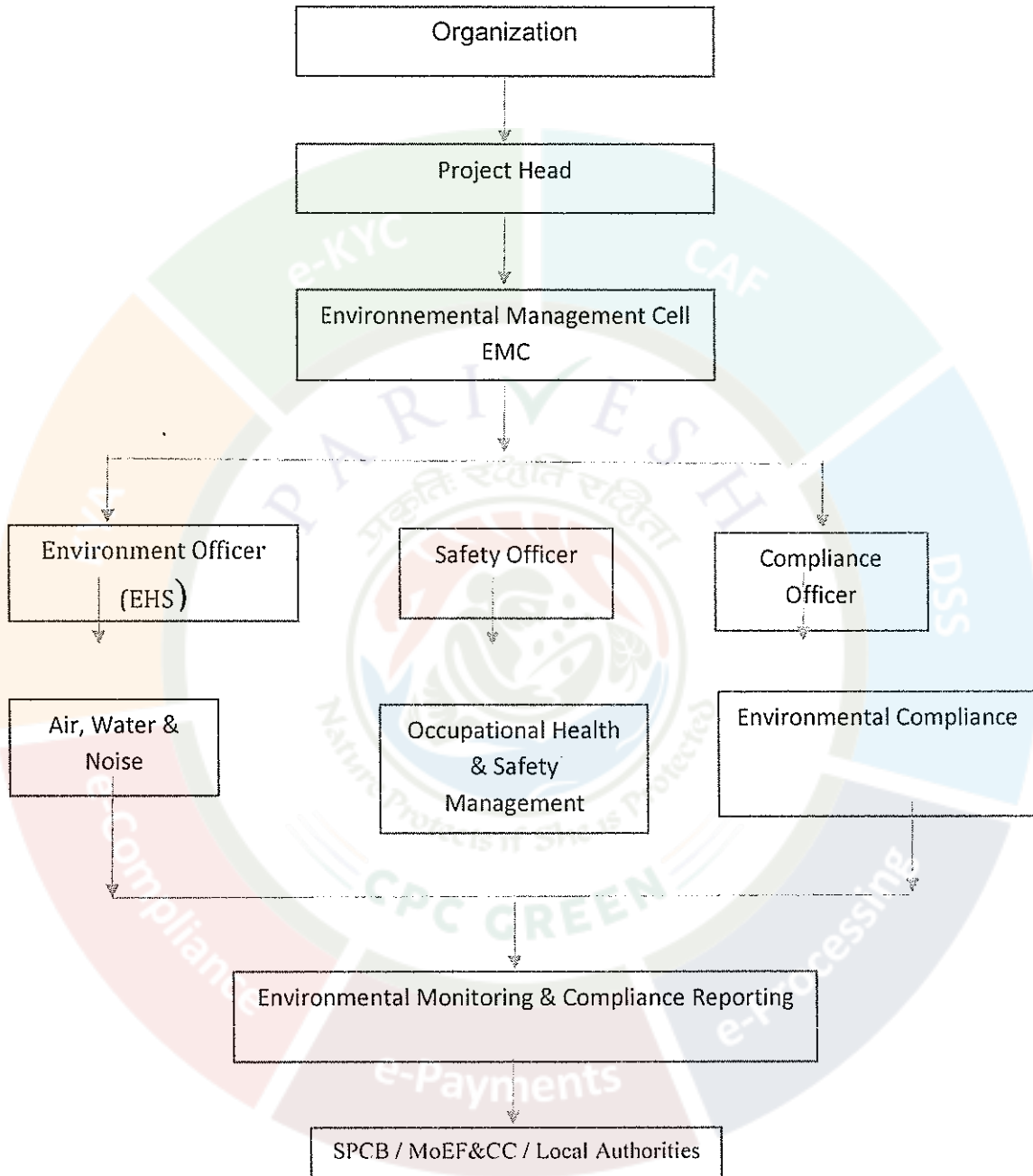
- Minimizing environmental harm through responsible Construction practices
- Promoting sustainable practices to conserve natural resources
- Ensuring compliance with regulatory requirements and industry standards
- Fostering community engagement and transparency through open communication

##### EMP Cell Objectives

The EMP Cell objectives are:

- To implement environmental mitigation measures as per approved EMP
- To ensure compliance with Environmental Clearance (EC) conditions

- To monitor air, water, noise, and waste management practices
- To ensure occupational health and safety of workers
- To maintain records and submit compliance reports to authorities



### Monitoring Plan

#### Construction Phase:

S. No.	Type	Locations	Parameters	Period and Frequency	Total cost in (Rs. in Lacs)
1.	Ambient Air Quality Monitoring	As per requirement	SO <sub>2</sub> , NO <sub>2</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> and CO	Once in a Six month.	0.40

2.	Ambient Noise Monitoring	As per requirement	Noise level $L_{eq}$ both during day time and night time	Once in a Six month.	0.25
3.	Water Quality Testing (Portability testing)	(i) Any operational bore well (ii) One of the Drinking Water Point	Drinking water parameters as per IS 10500:2005.	Once in a Six month.	0.25
4.	Soil Environment	As per requirement	PH, Electrical Conductivity (EC) Moisture content, Texture.	Once in a Six month.	0.25
<b>Total Costs in Lakhs</b>					<b>1.15 Lakhs</b>

**Operation Phase:**

S. No.	Type	Locations	Parameters	Period and Frequency	Total cost in (Rs. in Lacs)
1.	Ambient Air Quality + Stack Monitoring	As per requirement	SO <sub>2</sub> , NO <sub>2</sub> , PM10, PM2.5 and CO	Once in a Six month.	0.30
2.	Ambient Noise Monitoring	As per requirement	Noise level $L_{eq}$ both during day time and night time	Once in a Six month.	0.25
3.	Water Quality Testing (Potability testing)	(i) Any operational borewell (ii) One of the Drinking Water Point	Drinking water parameters as per IS 10500:2012.	Once in a Six month.	0.25
4.	Treated Wastewater Quality	Inlet and outlet of the STP and ETP	Parameters for assessing compliance with standards for recycling and horticulture use	Once in a month.	1.50

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5.	Soil Environment	As per requirement	PH, Electrical Conductivity (EC) Moisture content, Texture.	Once in a Six month.	0.25
<b>Total</b>					<b>2.55 Lakhs</b>

*Environmental Management Cost – Construction Phase*

Sr. No.	Component	Particulars	Capital Investment (Lakhs)	Recurring Expenditure per Annum (Lakhs)
1.	Air	Anti-Smog Gun (1 No.)	5.0	3.0
2.	Water	Mobile STP, etc.	10.0	2.5
3.	Solid and C&D Waste and its Management	Stack yard and its management	3.0	2.0
4.	Environment Monitoring & Management	Environment Monitoring as per monitoring plan ➤ Construction of wind breaking wall ➤ Green Curtains on under construction building	20.0	3.0
5.	Green Belt	Development and maintenance of green belt	10.0	2.5
<b>Total (Rs.)</b>			<b>48.0</b>	<b>15.0</b>

*Environmental Management Cost – Operation Phase*

Sr. No.	Component	Particulars	Capital Investment (Lakhs)	Recurring Expenditure per Annum (Lakhs)
1.	Air	Stack emission control for 3 DG Sets	5.0	2.0
2.	Water	Sewage Treatment Plant (STP)	80.0	10.0
3.	Rain Water Harvesting	Installation of RWH System & Annual Cleaning of RWH tank	10.0	2.0
4.	Solid waste Area and its Management	Purchase of Containers for Storage of Waste (300 Kg/day)	25.0	3.0
5.	Environment Monitoring & Management	Environment Monitoring as per monitoring plan	0.0	2.5

Sr. No.	Component	Particulars	Capital Investment (Lakhs)	Recurring Expenditure per Annum (Lakhs)
6.	Green Belt	Development and maintenance of green belt Trees to be planted, 244 no.	12	2.5
7.	Others	Energy saving devices, miscellaneous i.e. Solar Electrical Vehicle Charging point	50.0 50.0	5.0 3.0
<b>Total (Rs.)</b>			<b>232</b>	<b>30</b>

State Level Environment Level Impact Assessment Authority (SEIAA), Jharkhand in its 129<sup>th</sup> meeting held on 10<sup>th</sup> & 11<sup>th</sup> February, 2026 discussed the project proposal along with recommendations made by SEAC in its 129<sup>th</sup> meeting held on 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> and 21<sup>st</sup> January, 2026 and decided to grant EC to the project.

On the basis of recommendation of SEAC and decision of SEIAA to grant of EC, Environmental Clearance is hereby issued to the “Proposed Residential Building “Highland Park” by M/s ACE Securities and Developers Private Limited at Village : Bargain, District : Ranchi, Jharkhand” alongwith the following specific conditions as recommended by SEAC:

**I. Specific Conditions:**

- i. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
- ii. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- iii. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign “Ek Ped Ma Ke Naam” and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.

- iv. Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.
- v. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- vi. All raw material to be stored only under covered shed.
- vii. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- viii. Developers to promote solar energy generation such that it offsets not less than 04 % of connected load.
- ix. Trees should be developed & maintained not less than 15% of project area.
- x. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- xi. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- xii. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- xiii. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- xiv. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- xv. Sufficient number of EV fast charging points to be installed.
- xvi. After approval of Building Plan from competent Authority, it should be submitted to the SEIAA.
- xvii. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- xviii. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.
- xix. Install the required STP, if project start functioning before commencing or functioning of CETP of Municipal Corporation.
- xx. This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.



- xxi. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
- xxii. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.
- xxiii. This Environmental Clearance shall be valid subject to the sustainable environmental management.

## II. Statutory Compliance :

- i. 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.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
- iii. 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.
- iv. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to".
- v. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- vi. 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.
- vii. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- viii. 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.
- ix. 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.







- x. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- xi. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.
- xiii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- xiv. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- xv. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
- xvi. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvii. Water during construction phase should be preferred from Municipal supply.
- xviii. Unskilled construction labourers shall be recruited from the local areas.
- xix. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xx. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xxi. Rest room facilities shall be provided for service population.
- xxii. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- xxiii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.



### III. Air quality monitoring and preservation:

- i. 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.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. 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 PM25) covering upwind and downwind directions during the construction period.
- iv. 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.
- v. 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, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. 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 Rules 2016.
- x. 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.
- xi. 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.



- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

**IV. Water quality monitoring and preservation:**

- i. 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.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. 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.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw 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.

- xii. 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.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. 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.
- xvi. 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.
- xvii. 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.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed based on the MBBR/MBR/SBR technology. 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.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxi. 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.

#### V. Noise monitoring and prevention:

- i. 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.

- ii. 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.
- iii. 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.

#### **VI. Energy Conservation measures:**

- i. 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.
- ii. Outdoor and common area lighting shall be LED.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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% 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.

#### **VII. Waste Management:**

- i. 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.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring 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.
- iii. 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.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

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- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. 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.
- vii. 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.
- viii. 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 25<sup>th</sup> January, 2016. Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x. 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.

#### **VIII. Green Cover:**

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling 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).
- ii. 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.
- iii. 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.
- iv. 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.







## IX. Transport:

- i. 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.
- ii. 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.
- iii. 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.

## X. Human Health Issues:

- i. 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.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. 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.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

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## XI. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. 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.
- iii. 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.
- iv. 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.

## XII. Miscellaneous:

- i. 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 MoEF&CC/SEIAA website where it is displayed.
- ii. The copies of 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.
- iii. 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.
- iv. 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.
- v. 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.



- vi. 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.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior Environmental Clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB as per direction contained in EIA Notification, 2006 and as amended vide OM No. J-11013/5/2009-IA.II dated : 29.06.2010, OM No. F.No.J-11013/5/2011-IA.I dated : 05.08.2011 and letter No. J-11013/71/2016-IA I(M) dated : 25.10.2017 of MoEF & CC, Govt. of India.
- xiv. 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.
- xv. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.








- xvi. 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.
- xvii. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF & CC, Govt. of India.

Sd/-  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand

Memo No. : EC/SEIAA/2025-26/4007/2025/ 601 Ranchi, Date: 19-02-2026

Copy to:

1. Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Ranchi, Jharkhand.
3. Divisional Forest Officer, Ranchi Forest Division, Ranchi, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Ranchi, Jharkhand.
5. Director, IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand

