

Minutes of 184th Meeting of SEIAA, Odisha held on 24.12.2024 at 11.00 AM

PARIVESH 1.0, AGENDA No.184.01	
Proposal No.	SIA/OR/MIN/402644/2022
Date of application	20.07.2023
State file no.	402644/827-MINB1/08-2023
Project Type	Fresh EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for Environment Clearance of Kalingadola Sand Bed, over an area 6.639 Ha, Khata No- 270, Plot No- 575 At- Kalingadola, Tahasil- Digapahandi, Dist- Ganjam, Odisha of M/s. Premex
Name of the company/Organization	M/s. Premex
Location of Project	At- Kalingadola, Tahasil- Digapahandi, Dist- Ganjam, Odisha
Whether submitted scrutiny fee (Yes/No)	Yes, of Rs. 2000/- vide e Challan Reference Id No. 30F6FB5B1C dated 02.03.2021
ToR issue date	24.05.2021
Name of Consultant	M/s Green Circle Inc., Vadodara, Gujarat

1. Proposal in brief:

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEIAA, are given as under.

- (i) This is a proposal for mining of sand from Kalingadola Sand Bed, over an area 6.639 Ha, Khata No- 270, Plot No- 575 At- Kalingadola, Tahasil- Digapahandi, Dist- Ganjam, Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. E45A11 & E45A12 and is bounded between the Latitude- 19° 13' 37.72"N To 19° 13' 55.25"N and Longitude – 84° 32' 57.00" E To 84° 33' 16.25" E bearing Khata no. 270, Plot No. 575, Kissam-Nadi
- (iii) The mining lease is an identified sairat source in the DSR. The Kalingadola Sand Bed sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Digapahandi to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, EMP, DLC, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, Digapahandi, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee- Yes, of Rs. 2000/- vide e Challan Reference Id 30F6FB5B1C dated 02.03.2021
- (vii) Distance from nearest sanctuary/ESZ- Lakahri Valley WLS-not mentioned
- (viii) Whether the lease area coming in DLC report-No, NA
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) River-Bahuda River, Depth of sand deposition-1.5 meter
- (xi) Method of mining-**Manual**
- (xii) Distance from nearest road bridge-1.6 km, Village road-2.4 km
- (xiii) Whether it is part of cluster – No
- (xiv) Whether EC obtained earlier-Yes, vide letter no. 4432 dated 17.08.2015.
- (xv) Date of approval of mining plan- by the Deputy Director of Geology O/o of Joint Director Geology, South Zone, Berhampur, Odisha vide letter no. 1016 dt. 29.07.2020
- (xvi) Production capacity per annum-7000 cum/annum (max.) with depth of mining 1.0 meter, total production in 5 years period-35000 cum, Geological reserve-74335 cum and Mineable reserve-62740 cum.

(xvii) The DSR has not been prepared as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020 and as per the Hon'ble Supreme Court order vide its order dated 10.11.2021 in Civil Appeal Nos. 3661-3662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others).

(xviii) The Project Proponent didn't present the proposal as the Replenishment Study Report was not submitted. The Proposal was defer to next meeting. The project proponent via E-mail on dated 11/11/2023 has informed that as per the decision of SEAC committee, the proposal shall be considered after submission of Replenishment Study Report. Since EDS was not raised, the Project Proponent had requested to facilitate the uploading of the Replenishment Study Report in the portal. The SEAC in its meeting held on dated 20-11-2023 decided to take decision on the proposal after receipt of Replenishment Study Report. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	The proposal shall be considered after submission of Replenishment Study Report. Since EDS has not been raised, the Project Proponent has requested to facilitate uploading of the Replenishment Study Report in the portal as discussed in last meeting. The SEAC decided to take decision on the proposal after receipt of Replenishment Study Report.	Replenishment study report submitted	The replenishment of Sand has been calculated by volumetric survey method and amount of sand deposited in the post monsoon season was calculated to be 41827 cum.

(xix) The Committee observed the following:

- a) **Measurement error:** 100 m X 100 m grid has been used for the volumetric survey and no details are given regarding accuracy of the measurement. The RLs of the grid points based on which the replenishment levels have been reported are also not mentioned.
- b) Satellite coordinates of the ML area boundary based on DGPS survey has not been reported.
- c) The riverbed sand replenishment study report is prepared by M/s Earth & Environment, Bhubaneswar. As per the above-mentioned report field data for pre and post monsoon periods have been collected in May and November respectively. There is no mention of the dates as well as year of collection of these field data. No information is available regarding surveying instruments used and the process of carrying out the survey.
- d) As per the "Standard operating procedure (SOP) for study of rate of replenishment of sand using drone survey" submitted by ORSAC vide letter No. ORSAC/PR/0951/21/2588 dated 02nd June 2023 the RLs of the center points of 10 m X 10m of the ML area measured for replenishment study is to be reported. (Paragraph 4 page 7).

(xx) The SEAC in its meeting held on dated 29-12-2023 decided that the proponent shall be called for a detailed presentation for consideration of EC and also to clarify the observation of SEAC at para 2.

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- (xxi) The Project Proponent gave a detailed presentation in SEAC Meeting dated **10-07-2024**.
- (xxii) This proposal is for Environmental Clearance of Kalingadola Sand Bed, over an area 6.639 Ha., Khata No- 270, Plot No- 575 At - Kalingadola, Tahasil - Digapahandi, Dist - Ganjam of Sri Prava Ranjan Mishra.
- (xxiii) **Category:** As per the EIA notification 2006, and its subsequent amendments, proposed project falls in category B under schedule of Item 1(a) - Mining of Minerals.
- (xxiv) Mining lease granted by Tahasildar, Digapahandi Letter No.630, Dtd. 05.02.2021 and successful bidder name is M/s. Premex, Plot No- 652, IRC Village, Nayapalli, Bhubaneswar, District Khurda.
- (xxv) Mining Plan was approved by Joint Directorate of Geology South Zone, Berhampur, letter No. 1016/SZ, Dtd. 29.07.2020.
- (xxvi) This is a new mine and Mining lease is an identified sairat source in the DSR page No.- 71, Para Serial No.28.
- (xxvii) **TOR details:** Terms of Reference (TOR) was issued by SEIAA, Odisha vide proposal letter No. 1350/SEIAA, Dtd. 24.05.2021.
- (xxviii) **Public hearing details:** Public hearing was held on Dtd. 27.07.2022 and Mouza Kalingadola which is adjacent to Kapileswar Temple, Kalingadola village under Digapahandi Tahasil, Ganjam District. Issues raised during public hearing are control of road dust by blacktopping, excavation of sand from Bada Sahi to NuaSahi along the river bank shall be restricted, transportation of sand will not be allowed in the road passing through the village rather the lessee shall use outside road for it, development of Kapileswar Swamy Temple, construction of proper guard wall /stone pitching of river embankment, local employment, subsidize price of minor minerals, speed of transporting vehicles shall be controlled to prevent accident.
- (xxix) **Location and Connectivity** – The proposed project is located at Plot No- 575, Khata No- 270, Village- Kalingadola, under Digapahandi Tahasil of Ganjam District bounded by Latitude: 19° 13' 37.72"N To 19° 13' 55.25"N Longitude: 84° 32' 57.00" E To 84° 33' 16.25" E, bearing Toposheet No: E45A11 & E45A12, Kisam- River. (SH29) - 2.6 km, (NH16)- 21.2 km, Airport Bhubaneswar – 208 km, Water Bodies- Ghodahad Dam- 30.8 km, Mahulia Reserve Forest- 126 km, Road Bridge- 1.6 km, River Embankment- 1.6 Km, Electric Transmission Pole- 2.4 km, Nearest Habitation- 2.5 km. , Distance of Lakhari wild life sanctuary is 23 kms away from the proposed project.
- (xxx) **Total Reserves:** As estimated, Geological Reserve is 74335 CUM and Mineable Reserve is 62740 CUM of the proposed project.
- (xxxi) **Mining method:** Manual method of mining is proposed for the project. Production capacity is 7000 CUM per Annum. Total production in 5 years 35000 CUM. Transportation is through Tipper/Tractor.
- (xxxii) **Water requirement:** Total water requirement for the proposed project is 3 KLD.
- (xxxiii) **Baseline study details:** Baseline study was conducted during 1st Oct 2021 to 31st Dec 2021.
- (xxxiv) **Greenbelt development:** 100 saplings over an area 0.150 Ha is proposed for greenbelt development for the project.
- (xxxv) **Manpower:** 18 Nos of manpower are required for the proposed project.
- (xxxvi) **Project cost:** Estimated cost of the proposed project is 18 Laes & EMP cost is 1.3 Laes.
- (xxxvii) **Environment Consultant:** The Environment consultant **M/s Green Circle Inc., Vadodara, Gujarat** along with the proponent made a presentation on the proposal before the Committee.
- (xxxviii) The SEAC in its meeting held on dated **10-07-2024** decided to take decision on the proposal after receipt of the following information / documents from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	The SEAC observed that Compliance of Specific ToR conditions is not satisfactory. Hence, submit revise Compliance Report of Specific ToR conditions.	Specific ToR Compliance report is enclosed herewith as Annexure-A
2.	PP shall revise the EMP budget as per the requirement of the dust suppression measures.	The PP revised the EMP Budget and enclosed herewith as Annexure- B
3.	Revisit the calculation of total mineable area after excluding the concave area part of river along with submission of revise sketch map of lease area.	The calculation of total mineable area after excluding the concave area part of river along with submission of revise sketch map of lease area is enclosed as Annexure- C.
4.	<p>The Project Proponent needs to clarify the observations of SEAC on following points (on submitted RSR through ADS):</p> <p>a) Measurement error: 100 m X 100 m grid has been used for the volumetric survey and no details are given regarding accuracy of the measurement. The RLs of the grid points based on which the replenishment levels have been reported are also not mentioned.</p> <p>b) Satellite coordinates of the ML area boundary based on DGPS survey has not been reported.</p> <p>c) The riverbed sand replenishment study report is prepared by M/s Earth & Environment, Bhubaneswar. As per the above-mentioned report field data for pre and post monsoon periods have been collected in May and November respectively. There is no mention of the dates as well as year of collection of these field data. No information is available regarding surveying instruments used and the process of carrying out the survey.</p> <p>d) As per the "Standard operating procedure (SOP) for study of rate of replenishment of sand using drone survey" submitted by ORSAC vide letter No. ORSAC/PR/0951/21/2588 dated 02nd June 2023 the RLs of the center points of 10 m X 10m of the ML area measured for replenishment study is to be reported. (Paragraph 4 page 7).</p>	Revised the Replenish Study Report enclosed herewith as Annexure- D
5.	The ADS submitted by the project proponent on the replenishment study is seen to be different from that presented by the environment consultant M/s Green Circle Inc., Vadodara, Gujarat in the SEAC meeting held on 10th July 2024. The ADS is stating volumetric survey without furnishing any details of the survey methodology whereas UAV / drone photogrammetry survey was presented in the above-mentioned SEAC meeting. The reasons for this reported change in survey methodology	The proponent enclosed herewith the revised Replenishment Study Report as Annexure- D

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	need to be explained.	
6.	The Project Proponent needs to submit the following distance from proposed quarry: a) Distance of lease area from existing Baghalati dam. b) Distance of Kalingadala Megalift scheme of Water Resources Department near Kantajori nalla. c) Distance of Batrada nalla barrage proposed by water department near Bidyadharpur. d) Distance from Poichandia existing weird. e) Distance from existing Kalingadala weird.	a) Baghalati dam is 27.8 km b) Kalingadala Megalift scheme of water department near Kantajori nalla is 5.2 km c) Batrada nalla barrage proposed by water department near Bidyadharpur is 23.5 km d) Poichandia existing weird is 32.4 km e) Kalingadola weird is 4.1 km

(xxxix) Any deficiencies/omission have been noticed in the above documents- Nil

2. **Whether SEAC recommended the proposal** –Yes, the proposal was placed in SEAC meeting held on 20.11.2024 and considering the information / documents furnished by the proponent and presentation made by the consultant M/s Green Circle Inc., Vadodara, Gujarat on behalf of the proponent, the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – F** in addition to the following specific conditions:
- Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure-G**.
 - Sand extraction shall be limited to quantity and depth as per replenishment study report for only the first year of mining. Regular replenishment study as per guidelines to be conducted and report to be submitted.
 - Provision of Bio-toilet shall be made at the site.
 - Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
 - Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.

Decision of Authority: Deferred for ADS

The KML file of the proposed lease area superimposed on the Google Earth Pro Image shows that the lease area is less than 500 meter from Bahuda Dam and Kalingadola Anicut intake point which is not inline with the Sustainable Sand Mining Guidelines 2016, Enforcement and Monitoring sand mining Guidelines, 2020 and minimum distance criteria guidelines issued by CPCB. Hence, the PP is required submit the revised lease area with revised KML file along with rectified Mining Plan.



Member Secretary, SEIAA

Signed by



Member, SEIAA



Chairman, SEIAA

PARIVESH 1.0, AGENDA No.184.02	
Proposal No.	SIA/OR/MIN/417311/2023
Date of application	07.02.2023
State file no.	417311/794-MINB1/02-2023
Project Type	Fresh EC (under cluster)
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for Environment Clearance of Dargula Sand Bed cluster I & II, over an area of 6.69 Hectares in village Dargula, Tahasil Dabugaon, District Nabarangpur, State Odisha submitted under cluster approach with consisting of 2 sand quarries.
Name of the company/Organization	Tahasildar, Dabugaon
Location of Project	in village Dargula, Tahasil Dabugaon, District Nabarangpur, State Odisha
Whether submitted scrutiny fee (Yes/No)	NA
ToR issue date	26.02.2021
Name of Consultant	M/s P and M Solution, Noida,

Proposal in brief:

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEIAA, are given as under.

1. This proposal is for environmental clearance for Dargula sand bed cluster I & II, over an area of 6.69 Hectares in village Dargula, Tahasil Dabugaon, District Nabarangpur of Tahasildar Dabugaon (submitted under cluster approach with consisting of 2 sand quarries).
2. **Category:** The project is categorized in Category-B-1 of Schedule under item 1(a)-Mining of Minerals in the EIA notification, 2006 and its subsequent amendments.
3. The Mining plan has been approved The Joint Director of Geology, Zonal survey, Koraput. Vide letter no- 1120, on dated 08.06.2020 (Quarry I) and 1141, dated 08.06.2020 (Quarry II)
4. The proposed mining cluster project is the river bed sand mining on Angi River at village Dargula under Tahasil: Dabugaon, Dist: Nabarangpur, Odisha over an area of 6.69 Ha. The cluster constituted of two sand bed namely Dargulla sand quarry I over an area of 2.53 Ha, Dargulla sand quarry II over an area of 4.16 Ha, on Angi river. All the two mines located within 500m radius from each other forming a cluster of sand bed. The lease has been allocated to the successful bidders by Tahasildar Dabugaon.
5. The Dargula sand quarry I have been allocated to Sri K. Paban Raju and Dargula Sand Quarry II has been allocated to Sri B. Jogi Raju.
6. **Public hearing details:** Public hearing was successfully executed on date 20.09.2022 at Gram Panchayat office premises of Jabaguda village under Dabugaon Tahasil in Nabarangpur district as per the guidelines given in EIA Notification 14th Particular September' 2006 and its subsequent amendment. Road repairing and widening of roads and supply of sand on concessional rates to local people were the main issues raised during public hearing and budget allocated for it was Rs. 1,48,000.
7. **TOR details:** TOR has been granted by SEIAA- Odisha prescribed the Reference No: 651/SEIAA dated 26-02-2021.
8. **Location and connectivity:** The proposed river bed sand mining will be carried out on Angi River located at village: Dargula, under Tahasil: Dabugaon, Dist Nabarangpur, Odisha The project site is located in survey of India toposheet no-(651/7). Dargula Sand Quarry I falls between latitude of 19°26'09.73"N to 19°26'18.09"N and longitudes of 82°20'23.12"E to 82°20'34.50"E and Dargula Sand quarry II falls between latitude of 19°26'13.93"N to 19°26'29.44"N and longitudes of 82°20'34.91"E to 82°20'45.80"E. Nearest Railway station is Kotpar Railway Station at a distance of

44.02 Km from the project site. The nearest road is a village road located at a distance of 100m. The site is well connected to NH-201 & SH-39 at a distance of 21.09 Km & 6.7 Km respectively. Nearest airport is Jharsuguda Airport located at a distance of 326Km from the mining Lease Cluster.

9. **Topography and drainage:** Topography of the area is a flat terrain which lies at an elevation of more than 2m from the level of flow of water. The gradient of flow of water in the river is gentle. So, in the lease area, the highest elevation is 115mRL & lowest elevation is 113mRL in sand. Drainage system in the region is dendritic. General flow direction of river is from North to South. Work will continue only during summer months when there is no water in the leasehold. Mining will be restricted to a depth above the ground water level.
10. **Replenishment report:** The estimated average erosion thickness is computed within the entire lease area and common safe workable area respectively. However, the volume of sand available in Dargula-I sand quarry after post monsoon study is around 6465.3 m³, which can be treated as safe extractable within the framework of the study after arrival of river level. As it is a new mine no excavation has done in this year. So, total minable reserve available for mining is 36825.3 m³ whereas, approved production capacity for the year is 6072 m³. The volume of sand available in Dargula-II sand quarry after post monsoon study is around 12814.68 m³, which can be treated as safe extractable within the framework of the study after arrival of river level. So, total minable reserve available for mining in Dargula-II is 46244.68 m³ whereas, approved production capacity for the year is 6670 m³.
11. **Reserves:** Geological reserves and mineable reserves of Dargula Sand Quarry I is 62301.96 cum and 31463.64cum respectively and for Dargula Sand Quarry II is 77265 cum (geological reserve) and 33430 cum (mineable reserve). Total production of the proposed project is given below in the following table.

Sl. No.	Year	Dargula -I Production in m ³	Dargula II Production in m ³	Total Production in m ³ (Cluster)
a)	1st	6072	6670	12742
b)	2nd	6072	6670	12742
c)	3rd	6072	6670	12742
d)	4th	6072	6670	12742
e)	5th	6072	6670	12742
Total		30360	33350	66710

12. **Mining method:** The method of excavation of sand from Dargula Sand Quarry – I & II will be by manual method. The mode of the deposits, geomorphology of the area and its hydrological condition are some of the factors that favor the open cast method of mining. In this deposit, the mining is done by dry-pit method i.e. Sand will be excavated within the active channel on dry intermittent or ephemeral stream beds. The excavator is used for removal of sand from the pits. The sands are extracted, loaded and transferred from pits to the users through trucks and tractors. The mining is done on single shift basis. The local manpower has been engaged in the mine. Benching will not be feasible in case of sand mining as the maximum depth of mining will be only 1 m.
13. **Water requirement:** the water requirement for workers for the Dargula I, 7.0 KLD of water will be required and 8.0 KLD of water will be required for Dargula II. Total water requirement for the cluster will be 15.00 KLD. This water will be supplied from the nearby area.

Activity	Calculation	Round off Figure in KLD
Drinking	@ 10 lpcd per labor 10*21/1000= 0.21 KLD	0.21
Dust Suppression	Total approach road to be water sprinkled = 1540 m 1540 m*6m*0.5 *2 times/1000= 9.24 KLD	9.24

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Plantation	2610 plant (during plan period) @ 2 L/per plant= 2610*2lts= 5220/1000= 5.22 KLD	5.22
Total		14.67 – 15.0

14. **Baseline study:** Baseline study was conducted for period of 3 months (October'21 to December'21).
- Ambient Air Quality Monitoring reveals that the minimum & maximum concentrations of PM₁₀ for all the 7 AQ monitoring stations were found to be 58.7 µg/m³ at AQ3 and 89.34 µg/m³ at AQ1, respectively. Ambient Air Quality Monitoring reveals that the minimum & maximum concentrations of PM_{2.5} for all the 7 AQ monitoring stations were found to be 23.21 µg/m³ at AQ3 and 56.21 µg/m³ at AQ1, respectively. As far as the gaseous pollutants SO₂ and NO_x are concerned, the prescribed CPCB limit of 80µg/m³ for residential and rural areas has never surpassed at any station. The minimum & maximum concentrations of SO₂ were found to be 3.24 µg/m³ at AQ2 & 17.21 µg/m³ at AQ1, respectively. The minimum & maximum concentrations of NO_x were found to be 9.83 µg/m³ at AQ3 & 25.10 µg/m³ at AQ1, respectively.
 - Analysis results of ground water during study period reveal pH varies from 7.19 at GW4 to 7.73 at GW6; total hardness varies from 280.34 mg/l at GW4 to 329.4mg/l at GW3 ;total dissolved solids vary from 846 mg/l at GW4 to 1238 mg/l at GW6.
 - Surface water analysis results indicate that the pH ranges between 7.32 and 7.72. Dissolved Oxygen (DO) was observed in the range of 6.8 to 7.4 mg/l against the minimum requirement of 4 mg/l. BOD values were observed to be in the range of 3.62 – 4.3 mg/l. The chlorides and Sulphates were found to be in the range. Bacteriological examination of surface water samples revealed the presence of total coliform in range of 1.8×10³MPN/100 ml to 2.0×10³. MPN/100 ml.
 - Noise monitoring reveals that the maximum & minimum noise levels at daytime were recorded as 59.4 Leq. dB (A) at NQ3 & 50.6 dB (A) at NQ5, respectively. The maximum & minimum noise levels at night-time were found to be 48.2 dB (A) at NQ3 & 38.8 dB (A) at NQ5.
 - Samples collected from identified locations indicate the soil is sandy type and the pH value ranging from 7.25 to 8.02, which shows that the soil is alkaline in nature. Potassium is found to be from 234.20mg/kg to 253.56mg/kg. The water holding capacity is found in between 26.94 % to 32.09%.
15. **Greenbelt:** Plantation will be done with suitable local species like Teak, Mango, Neem, Jammun, Jhaun etc after consultation with the local authorities. A time bound progressive schedule for greenbelt is given in the following table. Total 2610nos. of saplings will be planted from the cluster during plan period.

Dargula Sand Quarry - I					
Year	Safety Plantation Area/No. of plants	Zone of	No of plants along both side of approach road	Location	Species
1 st	0.480/480		740	Approach road – 740 nos – along both sides 0.74 km of approach road at spacing of 2 m.	Guava, mango, Jammun, Jhaun, neem etc
2 nd	Maintenance		Maintenance		
3 rd					
4 th					
5 th					
Total	480		740		
Total	1220				

Dargula Sand Quarry - II

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Year	Safety Zone Plantation Area/No. of plants	No of plants along both side of approach road	No. of plants in buffer zone consulting local authorities	Location	Species
1 st	0,491/490	800	100	Approach road – 800 nos – along both sides 0.80 km of approach road at spacing of 2 m. Village area – 100 nos. In village area like school premises, Aangawadi, Panchayat bhavan	Guava, mango, Jammun, jhaun, neem etc.
2 nd	Maintenance	Maintenance	Maintenance		
3 rd					
4 th					
5 th					
Total	490	800	100		
Total	1390				

16. **Manpower requirement:** Total manpower requirement of Dargula sand quarries is 21 nos. (i.e. Dargula sand quarry I is 10nos. and Dargula sand quarry II is 11nos.).

17. **Project cost:** The estimated cost of project is around Rs. 60 lakhs. CER budget proposed for this project is 1,20,000/- and for EMP a budget of Rs.830000 has been allocated as capital cost and Rs. 270000 as recurring cost.

Dargula Sand Quarry– I & II (For Cluster) Budget for environmental protection

Sl. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression /Water Sprinkling	--	50,000
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 10,000 10,000
3.	Green belt development	5,22,000	50,000
4.	Maintenance of haul road	3,08,000	60,000
Total		8,30,000	2,70,000

18. **Environment Consultant:** The Environment consultant M/s P and M Solution, Noida along with the proponent made a presentation on the proposal before the Committee on 03.03.2023.

19. The SEAC in its meeting held on dated 03-03-2023 recommended the following;

- A) The proponent may be asked to submit the followings for further processing of EC application;**
- a) Exclude concave portions (area prone to erosion) from the mining zone;
 - b) Revisit and submit replenishment study.
 - c) The exact distance of the nearest bridge from proposed quarry.
 - d) Certificate from concerned DFO for absence of Schedule – I species and the flora and fauna of the region.

B) The proposed site shall be visited by Sub-Committee of SEAC to verify the followings;

- i) Actual sand deposit in the lease area as shown in KML file.
- ii) Environmental settings of the lease area.
- iii) Mining activity, if any carried out in the lease area.
- iv) Road connectivity to the lease area.
- v) Distance of the bridge from the boundary of the lease area.
- vi) Cluster approach if any.
- vii) Distance of embankment from sand deposit.

20. The project proponent has not replied to ADS raised by SEAC. Regarding the site visit, the SEAC opined that proposed area is far and possibility for visit to the place by SEAC Members is not possible.

21. The SEAC in its meeting held on dated **11-09-2023** decided to take decision on the proposal after receipt of the following from the proponent.

- i) Video showing the cluster lease area with geo coordinates, transportation road of the cluster, Mine area of all quarries present in cluster and previous mining activity.
- ii) Fresh KML file.

22. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Video showing the cluster lease area with geo coordinates, transportation road of the cluster, Mine area of all quarries present in cluster and previous mining activity.	Not submitted	Old compliance report has been resubmitted by PP
2.	Fresh KML file.	Not submitted	----

23. The SEAC in its meeting held on dated **25-07-2024** decided to take decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Video showing the cluster lease area with geo coordinates, transportation road of the cluster, Mine area of all quarries present in cluster and previous mining activity.	A video illustrating the cluster lease area, including geo-coordinates, transportation routes and the mine areas of all quarries within the cluster, has been prepared and sent to seac.odisha2019@gmail.com. A map of the transportation routes is attached as Annexure-I. Both quarries are newly identified sources and no prior Environmental Clearance (EC) has been obtained. Furthermore, no lease has been granted for these quarries due to the absence of EC.	Video submitted
2.	Fresh KML file.	A fresh KML file has been forwarded to seac.odisha2019@gamil.com.	KML file submitted.
3.	It seems from replenishment report that the concave portion of the	The safe working zone has been recalculated, with the concave	Only calculation part for concave

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Daragula Sand Bed-I has not been taken into account while calculating the safe working zone. This has to be taken into consideration.	portion and the necessary safety zone taken into account. This has been detailed in the Replenishment study Report attached as Annexure-II .	portion of the Daragula Sand Bed-I has been submitted.
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Any deficiencies/omission have been noticed in the above documents- Nil

2. **Whether SEAC recommended the proposal –Ye**, the proposal was placed in SEAC meeting held on 06.11.2024 and the considering the information / documents furnished by the proponent and presentation made by the consultant M/s P and M Solution, Noida, on behalf of the proponent, the SEAC approved the EIA/EMP report in cluster approach and recommended the following:

a) The SEIAA, Odisha may consider to grant Environmental Clearance to individual lease for **Dargula sand bed cluster I & II** (under cluster approach) without referring to SEAC with stipulated conditions as per **Annexure – B** after receipt of individual applications from the lessee in cluster along with following documents.

- i) Filled in form-I of individual lease
- ii) Prefeasibility report of individual lease
- iii) EMP of individual lease.
- iv) Approved Mining Plan of individual lease.
- v) Previous production details of individual lease duly certified by Tahasildar.
- vi) Replenishment Study Report of individual lease.

b) Following specific conditions may be stipulated in individual Environmental Clearance.

- f) Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – C**.
- g) Sand extraction shall be limited to quantity and depth as per replenishment study report for only the first year of mining. Regular replenishment study as per guidelines to be conducted and report to be submitted.
- h) Provision of Bio-toilet shall be made at the site.
- i) Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
- j) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.

Decision of Authority: Deferred for ADS

After detailed deliberation, the authority approved the cluster EIA & EMP as recommended by SEAC with an instruction to SEAC for examining the application for individual ECs before recommendation for grant of individual ECs under cluster approach as per SEIAA's letter no. 6184/SEIAA dated 21.12.2024.

Signed by


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA

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PARIVESH 1.0, AGENDA No.184.04	
Proposal No.	SIA/OR/INFRA2/430681/2023
Date of application	25.05.2023
State file no.	430681/115-INFRA2/05-2023
Project Type	Fresh EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction
Name of the Project	Proposal for Environment Clearance of Proposed S1+S2+S3+10 floors (Block-A & B) and S1+S2+S3+18 floors (Block-C & D) Multi-storied Residential Apartment building (MIG Category), having total plot area 7104.23 sqm or 1.755 acres or 0.7104 Ha, with total built-up area 38,015.17 sqm Over Plot No-2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866, Khata no-1330/9654 by GPA Holder M/s. Laxmi Infra Ventures Pvt. Ltd. represented by Sri Rajesh Kumar Nayak, Mouza-Pandara, Bhubaneswar, Dist- Khurdha of M/s. Laxmi Infra Venture (P) Ltd.
Name of the company/Organization	M/s. Laxmi Infra Venture Private Limited Sri Rajesh Kumar Nayak
Location of Project	Mouza-Pandara, Bhubaneswar, Dist- Khurdha
Whether submitted scrutiny fee (Yes/No)	Yes, of Rs. 3.0 lakh vide Treasury Challan Ref. No. 35A6880C55 dated 27.04.2023
ToR issue date	27.12.2021
Name of Consultant	M/s Visiontek Consultancy Services Pvt. Ltd.

Proposal in brief:

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s. Laxmi Infra Venture (P) Ltd for Proposed S1+S2+S3+10 floors (Block-A & B) and S1+S2+S3+18 floors (Block-C & D) Multi-storied Residential Apartment building (MIG Category), over Plot No-2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866, over an Built-up Area – 38015.17 m², Khata no-1330/9654 Mouza-Pandara, Bhubaneswar, Dist- Khurdha by GPA Holder M/s. Laxmi Infra Ventures Pvt. Ltd. represented by Sri Rajesh Kumar Nayak.
2. **Category:** As per EIA Notification 2006 and subsequent amendment, the proposed project falls under Category B under Item 8(a) Building and Construction projects.
3. The proposed project has been approved by Bhubaneswar Municipal Corporation vide letter no 57693 dated 09.12.2022.

Statutory clearances:

Sl. No.	Particulars	Letter No. / Application No.
1.	Fire Safety Recommendation No. Application No.	RECOMM1204130012023001025 FSR1204130012023000004
2.	NoC from TPCODL	TPCODL letter No. 4308 on dated 07th

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		2022
3.	NoC for Own Water Supply & Sewerage Connection System	PHD Division, Bhubaneswar letter no. 176 on dated 07/01/2023
4.	Height Clearance NoC from AAI	BHUB/EAST/B/102121/629810
5.	NoC for Ground Water Abstraction	CGWA/NOC/INF/ORIG/2023/18149 on dated 11/04/2023
6.	Approval letter from BMC	BP-BMC-2022-06-21-004957 Letter No-57693/dated 19/09/2022
7.	Structural Stability Certificate	Registration no. RTP/DTP(ST.ER)-092/2018 Valid upto 10/05/2024
8.	Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza - Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabak Khata No. 426, Hal Khata No. 297 Mouza - Pandra, Tahalil - Bhubaneswar,	Letter no. -6908/we on dated 27/11/2019

4. **Location and connectivity:** The area is located in Survey of India Topo sheet No. F45T15 bearing Plot No-2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866, Khata no-1330/9654. Geographical coordinates for the project site are latitude of 20^o18'15.37N and longitude - 85^o 52' 28.11"E. The kism of the plots are Ghrabari. The project site is at a distance of 5.2 Km-W from NH-16/AH-45, 1.20 Km -E from Nandankanan Road. Site is flat land with average elevation of 20-21m AMSL. Project site is well connected with New Hitech Road which connects to NH-16 at the distance of 62 m. North direction. Proposed project site also connects to NH-316 (Bhubaneswar-puri Highway) at Pandara Square about 1.3 km-SW to the project site. Vanivihar Railway station is 2.55 Km - SSW away from Project site. Mancheswar Railway Station is 3.61 km away in North-West. Bhubaneswar railway station is 5.27 km away in South-West. Biju Patnaik International Airport 8.34 km in South West. Nearest water body is Gangua Nala at 0.24km. Nearest assess to building as per the plan, the proposed building abuts on a road of width 12.19 mtrs. at front side of the proposed building, which shall be made as per Rule-31 of Odisha Development Authorities (Planning and Building Standards) Rules, 2020. Besides, a culvert has been shown in the proposed building plan, the same shall be of width 12 mtrs for access to the premises.
5. The project falls under seismic zone-III as per IS1893 (Part-1):2002 indicating Moderate to lower damage risk zone. The buildings will be designed as earthquake resistant and comply with the required IS specifications.
6. **Area details:** Plot area of project is estimated to be 7104.23 sqm, or 1.755 Acres or 0.7104 Ha. & the Built-up Area is estimated to be 38015.17 sqm.

AREA STATEMENT	
Particulars	Area (in m ²)
TOTAL PLOT AREA	7104.23
Ground Coverage Required(40% of plot area)	2841.7
Area Of Ground Coverage Achieved (39.83% of plot area)	2829.75
STILT FLOOR-1	
BUILT UP AREA	2781.93

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EXEMPTION AREA (FIRE TOWER)	129.24
STILT FLOOR-1 AREA FOR FAR	2652.69
BLOCK-A,B,C &D SERVICES AREA (EXEMPTION AREA IN PARKING)	36.46
STILT FLOOR-1 PARKING AREA	2616.23
STILT FLOOR-2	
BUILT UP AREA	2781.93
EXEMPTION AREA (FIRE TOWER)	129.24
STILT FLOOR-2 AREA FOR FAR	2652.69
BLOCK-A,B,C &D SERVICES AREA (EXEMPTION AREA IN PARKING)	81.62
STILT FLOOR-2 PARKING AREA	2571.07
STILT FLOOR-3	
BUILT UP AREA	2688.11
EXEMPTION AREA (FIRE TOWER)	129.24
STILT FLOOR-3 AREA FOR FAR	2558.87
BLOCK-A,B,C &D SERVICES AREA RAMP & SOCIETY AREA(EXEMPTION AREA IN PARKING)	264.55
STILT FLOOR-3 PARKING AREA	2294.32
NET FAR AREA (BLOCK -A)	3836.36
NET FAR AREA (BLOCK -B)	4811.13
NET FAR AREA (BLOCK -C)	9503.97
NET FAR AREA (BLOCK -D)	10194.6
TOTAL NET FAR AREA(including stilt floor-1,2 &3 service area)	28346.06
GRAND TOTAL B.U.A	38015.17
FAR	3.99
Total No Of Dwelling Units	223
NO Of Recharge pit(Required)	21
NO Of Recharge pit(provided)	25
Plantation Required @1 Tree Per every 80sqm of plot area	109
SOCIETY AREA (REQUIRED)	223
SOCIETY AREA (PROVIDED)	231.37

7. **Water requirement:** Total water requirement of the project is expected to be 180 KLD approximately; out of which fresh water requirement is 120KLD. Domestic: 120 KLD and Flushing: 60 KLD. The source of water is PHED for which PP has obtained No objection certificate from PHD, Bhubaneswar vide letter no. 176 on dated 07.01.2023. There is also provision for groundwater for standby for which PP has applied to CGWB and got the NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149 with Date of Issuance: 11/04/2023 which is valid up to 10/04/2028.
8. **Waste water generated and its management:** The total waste water generated is 144KLD which will be treated in STP of capacity 160KLD. Treated water recovered is 115KLD which will be used in Gardening – 40KLD, DG Set cooling – 15KLD and 60 KLD in Flushing water. The PP has mentioned there is a provision for zero discharge concept in Dry season.
9. For Rainy season, the fresh water requirement of 120 KLD will decrease from 120 KLD to 30 KLD

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by availing it from roof top storm water collection - 90KLD and 30KLD from Bore well/supply water. Discharge to nearest Drain will be 40 KLD.

10. **Greenbelt:** About 100 trees of 8 types of species (Neem, Peepal, Mango, Shisham, Sirish, Babool, Gulmohar or local plants as per the advice of forest officers) will be planted both inside the project area and all along the boundary to create a boundary of greenery.

Area Component	Area in Sqm
Total Plot area (sqm)	7104.23
Green area required@ 20 % of Plot area (sqm)	1,420.84
Green area provided@ 22.43% of Plot area (sqm)	1952.35
Required number of trees @ 1 tree per 80 sq.m. of plot area	89 trees
Number of trees Proposed (No. of trees planted in around the road and peripheral boundary line)	110

11. **Solid waste management:** The solid waste generated from project will be mainly domestic in nature and the quantity of the waste will be 0.614 Ton/day. Solid wastes generated will be segregated into biodegradable 0.246 T/Day (waste vegetables and foods etc.) and Non-biodegradable or recyclable 0.368 Ton/day (papers, cartons, thermo-col, plastics, glass etc.) Components will be collected in separate bins. The biodegradable organic wastes will be treated inside the premises by OWC (Organic Waste Converter) of capacity to treat 250 kg/day. Recyclable and non-recyclable wastes will be disposed through Govt. approved agency.

12. **Power requirement:** The power supply shall be supplied by TPCODL. The maximum demand load is estimated at 1341 KW or 1578 KVA. Permission for Electrical supply to the proposed project site is received from office of the Divisional Manager (Electrical) through Letter No:-4308 on dated 07/--/2022. There is provision of Power backup for the residential project will be through DG sets of total capacity. 1 Nos. 250KVA+1 Nos. 320 0KVA, 415Volts DG Sets with acoustic enclosure with DG Synchronisation with DG Set Stack of 65 m.

13. **Solar energy details:**

Total Connected Load in kW	1734.2 KW
Solar Power Required in kW @ 5% of the Connected Load	86.7KW
Solar Power In kW to be generated by Roof Top Solar Panels	87KW
No. of Solar panels required (300W to 400W capacity)	62NOS
SUGGESTED SOLAR SYSTEM: 62 Nos. of Solar Panels suitable for 87 KW LOAD	

14. **Waste management:** Around 2 KLD effluent will be generated which will be treated in septic tank followed by soak pits. 27 kg/day solid waste (peak) will be generated during construction phase and will be disposed through waste handling agency.

15. **Rain water harvesting** - 10 nos of recharge pits for collection of storm water at selected locations will be provided, which will catch the maximum surface run-off water and roof water and will be stored in a storage tank having capacity of 90 m³.

16. **Parking details:**

Facilities	Area in Sqm
Parking Area Required(25% Of B.U.A)	7086.51
Parking Area (Provided)	7332.82
Covered Parking(In Stilt Floor-1 (Block-A+B+C+D)	2616.23
Covered Parking(In Stilt Floor-2 (Block-A+B+C+D)	2571.07
Covered Parking(In Stilt Floor-3 (Block-A+B+C+D)	2294.32
Stack Parking	103.5
Open Parking	458.35
Visitor's Parking Required@10% Of Total Parking)	708.64

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Visitor's Parking (Provided)	710.65
Electric Charging Point(Required @30% Of Total Parking)	2413.04
Electric Charging (Provided)	2400
Total parking Area (Provided)	8043.47
Total Car Parking No.S (Provided)	250
Total Bike Parking No.S (Provided)	175

17. **Project cost:** Estimated cost of the project is 76.50 Cr. EMP Capital Cost is 91 Lakh and Recurring Cost /Annum is 3.1 Lakh

Table: EMP cost

Source	Capital Cost (In Lacs)	Recurring Cost (In lacs)
Landscaping	10	0.5
Rain Water Harvesting	10	0.2
Solid Waste Management	8	0.5
STP	50	1.2
Acoustic Enclosure & DG Set Stack	10	0.2
Environmental Monitoring	3	0.5
Total	91	3.1

18. **Environment Consultant:** The Environment consultant M/s **Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee on 13.06.2023.
- A. The SEAC in its meeting held on dated 13-06-2023 recommended the following: The proponent may be asked to submit the following for further processing of EC application:**
- Permission letter for constructing approach road bridge over Prachi Canal for transportation.
 - Permission from BMC to use nearest public drain to discharge treated water.
 - Undertaking by the Project Proponent to use PHED water when available to the area and extraction of water from groundwater should be minimal.
 - Relook at the possibility to increase parking area as per the parking norms and calculation of parking area should be given in percentage as well as area wise.
 - Details of solar power generation and consumption.
 - Relook at the water discharge calculation.
 - Revisit the water balance for Dry season as there is deficit of 29KLD and according to the Project Proponent in dry season a Zero Liquid Discharge concept will be obtained.
 - RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.
 - Detail plan of drainage for discharging excess treated sewage water.
 - Source of water for use during construction phase.
- B. The proposed site shall be visited by Sub-Committee of SEAC to verify the followings**
- Environmental settings of the project site.
 - Construction activity, if any started at the site.
 - Road connectivity to the project site.
 - Drainage network at the site.
 - Discharge point for discharge of treated water and distance of the discharge point from the project site.
 - Any other issues including local issues.

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19. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent										
1.	Permission letter for constructing approach road bridge over Prachi Canal for transportation.	Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza - Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabik Khata No. 426, Hal Khata No. 297 Mouza - Pandra, Tahalil – Bhubaneswar. Permission letter no: 6908/we on dated 27/11/2019 is attached as Annexure- (a) .										
2.	Permission from BMC to use nearest public drain to discharge treated water.	We already received of NOC for Water Supply & Sewerage Connection to the proposed Block-(A) S1+S2+S3+10, Block (B) S1+S2+S3+10, Block (C)S1+S2+ S3+18, Block (D)S1+S2+S3+18 Multi storied residential apartment building (MIG Category) over Plot No. 2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866 & Khata No. 1330/9654 in Mouza: Pandara, Bhubaneswar from Office of the Superintending Engineer PHD,BBSR vide letter no. 176 Dated 07/01/2023 which is attached as Annexure (b) .										
3.	Undertaking by the Project Proponent to use PHED water when available to the area and extraction of water from groundwater should be minimal.	The water requirement of 120 KLD will be supplied by PHED) water supply system. Presently there is no municipal (PHED) water supply system located near our project site. There will be no provision of sourcing the same from any other Supply water/surface water body. Hence we will meet the daily fresh water requirement through ground water during the operation phase. We got the no objection certificate from PHD, Bhubaneswar vide letter no. 176 on dated 07.01.2023. We applied to CGWB for ground water and finally we got the NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149. We will use PHED water when available to the area and extraction of water from groundwater should be minimal. Undertaking is attached as Annexure-C .										
4.	Relook at the possibility to increase parking area as per the parking norms and calculation of parking area should be given in percentage as well as area wise.	Parking area provided as per ODA Norms. Parking layout as per are attached as Annexure-(d) . <table border="1" data-bbox="758 1691 1308 2024"> <thead> <tr> <th>FACILITIES</th> <th>AREA IN SQM</th> </tr> </thead> <tbody> <tr> <td>Parking Area Required(25% OF B.U.A)</td> <td>7086.51</td> </tr> <tr> <td>Parking Area (Provided)</td> <td>7332.82</td> </tr> <tr> <td>Covered Parking(In Stilt Floor-1 (Block-A+B+C+D)</td> <td>2616.23</td> </tr> <tr> <td>Covered Parking(in stilt floor-2 (block-A+B+C+D)</td> <td>2571.07</td> </tr> </tbody> </table>	FACILITIES	AREA IN SQM	Parking Area Required(25% OF B.U.A)	7086.51	Parking Area (Provided)	7332.82	Covered Parking(In Stilt Floor-1 (Block-A+B+C+D)	2616.23	Covered Parking(in stilt floor-2 (block-A+B+C+D)	2571.07
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			Covered Parking(in stilt floor-3 (block-A+B+C+D)	2294.32
			Stack Parking	103.5
			Open Parking	458.35
			Visitor's Parking Required@10% OF Total Parking)	708.64
			Visitor's Parking (provided)	710.65
			Electric Charging Point(Required @30% of Total Parking)	2413.04
			Electric Charging (Provided)	2400
			Totalparking Area (Provided)	8043.47
			Total Car Parking No.S (Provided)	250
			Total Bike Parking No.S (Provided)	175
5.	Details of solar power generation and consumption.	<p>SOLAR PANEL SIZING (IN KW) AND SOLAR POWER GENERATION. The Solar Power Demand For Campus area Light , Main Gate Light will be 87 KW (5% of total demand) SUGGESTED UPS FOR EMERGENCY LIGHTING : 1 x 8KVA, 1Phase Input / 1Phase Output with 90 Minutes backup Selection of SOLAR SYSTEM: Total Connected Load in Kw:-1734.2 KW Solar Power Required in kW @ 5% of the Connected Load 86.7 KW Solar Power In kW to be generated by Roof Top Solar Panels 87KW No. of Solar panels Required (300W to 400W capacity) : 62 NOS SUGGESTED SOLAR SYSTEM : 62 Nos. of Solar Panels suitable for 87 KW load</p>		
6.	Relook at the water discharge calculation.	<p>Total water requirement of the project is expected to be 180 KLD approximately; Domestic: 120 KLD (source: rain water harvesting-90 KLD and 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. Reuse of treated waste water (Zero discharge norms will be followed during dry season) Flushing: 60 KLD Greenbelt : 40 KLD During rainy season Fresh water requirement will</p>		

		<p>be decreases from 120 KLD to 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection.</p> <p>Only 40 KLD of treated water will be discharge to nearest Drain.</p>
7.	<p>Revisit the water balance for Dry season as there is deficit of 29KLD and according to the Project Proponent in dry season a Zero Liquid Discharge concept will be obtained.</p>	<p>As per NBC the quantity of waste water generate from dwelling units and other facilities should be 80 to 90% of the raw water. So that the waste water recovered after treatment is 115 KLD.</p> <p>Total water requirement of the project is expected to be 180 KLD approximately; Domestic: 120 KLD (source: rain water harvesting-90 KLD and 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection.</p> <p>Reuse of treated waste water (Zero discharge norms will be followed during dry season)</p> <p>Flushing: 60 KLD Greenbelt : 40 KLD</p> <p>During rainy season Fresh water requirement will be decreases from 120 KLD to 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. Only 40 KLD of treated water will be discharge to nearest Drain.</p>
8.	<p>RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.</p>	<p>As per the soil testing report, the water level depth is given below In BH NO-01:-2.30m, BH NO-02: 2.40m, BH NO-03:2.40m and BH NO-04:2.35 m</p> <p>As per India-WRIS, The water level of the project area during pre-monsoon -5.14 mbgl, post monsoon:-3.72 mbgl and during monsoon -2.2 mbgl. Annual average water level is 3.71 mbgl.</p> <p>The Capacity of the recharge pit is designed to retain runoff from at least 15 minutes rainfall of peak intensity. (10 recharge pit will be required having capacity of 6 cum according to CGWB norms.</p> <p>Drawing and design report for excess treated waste water and storm water has been approved by EIDP, Bhubaneswar. attached as Annexure- (h)</p>
9.	<p>Detail plan of drainage for discharging excess treated sewage water.</p>	<p>Drawing and design report for excess treated waste water and storm water has been approved by EIDP, Bhubaneswar attached as Annexure- (h)</p>
10.	<p>Source of water for use during construction phase.</p>	

20. The proposed site was visited by the sub-committee of SEAC on 21.08.2023. Following are the

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observations of the sub-committee:

- a) PP and consultant team were present and explained the layout.
 - b) There are no construction activities undertaken at project site.
 - c) The site is connected with a public road on prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.
 - d) The PP has to submit the layout showing the drainage network starting from building site to natural nallah. The drain design needs to be prepared and approved by appropriate authority considering the data of RLs of bottom of drain at strategic locations and invert level of natural nallah, the run off calculations during highest rain fall, so that the area is not flooded with rain water during heavy rainfall. The maximum ground water level vs proposed ground level, the parking area, RWH etc. (after construction) needs to be considered taking into account the maximum rainfall of the area for adequate structural stability
 - e) PP need to submit the documents in support of building approval application, Fire NOC / recommendations, fire fighting provisions and fire corridor.
21. The SEAC in its meeting held on 17-11-2023 decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	The site is connected with a public road on prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.	Permission letter for constructing approach Road Bridge over Prachi Canal for transportation. Permission for construction of V.R Bridge at RD 13.95 Km, of Lingipur Distributary Mouza – Pandra for access to Plot No. 2807,2808,2810,2798, 2799 over Sabik Khata No. 426, Hal Khata No. 297 Mouza – Pandra, Tahasil-Bhubaneswar. Permission letter no. 6908/we on dated 27/11/2019 is attached as Annexure – (a)	The query raised was to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain. Here PP has submitted only permission to construct the Road Bridge over Prachi Canal for transportation.
2.	The PP has to submit the layout showing the drainage network starting from building site to natural nallah. The drain design needs to be prepared and approved by appropriate authority considering the data of RLs of bottom of drain at	As per the soil testing report, the water level depth is given below In BH NO-01:-2.30m, BH NO-02: 2.40m, BH NO-03: 2.40m and BH NO-04: 2.35m As per India – WRIS, The water level of the project are during pre-monsoon -5.14 mbgl, post monsoon: -3.72	The query raised was to submit the layout showing the drainage network starting from building site to natural nallah.

	<p>strategic locations and invert level of natural nallah, the runoff calculations during highest rain fall, so that the area is not flooded with rain water during heavy rainfall. The maximum ground water level vs proposed ground level, the parking area, RWH etc. (after construction) needs to be considered taking into account the maximum rainfall of the area for adequate structural stability.</p>	<p>mbgl and during monsoon - 2.2 mbgl Annual average water level is 3.71 mbgl</p> <p>The capacity of the recharge pit is designed to retain runoff from at least 15 minutes rainfall of peak intensity, (10 recharge pit will be required having capacity of 6 cum according to CGWB norms). Approved by FIDP, Bhubaneswar, attached as Annexure – (h) We already received of NOC for water Supply & Sewerage Connection to the proposed Block – (A) s1+s2+s3+10, Block (B) S1+S2+S3+10, Block (C) S1+S2+S3+18, Block (D) S1+S2+S3+18 Multi storied residential apartment building (MIG Category) over plot no. 2810/15121, 2808/15127, 2807,2800, 2798 & 2799/15866 & Khata No. 1330/9654 in Mouza: Pandara, Bhubaneswar from Office of the Superintending Engineer PHD, BBSR vide letter no.176/ Dated 07/01/2023 which is attached as Annexure (b).</p>	
3.	Source of water for use during construction phase.	The water requirement during the construction phase will be met from private water tankers.	-

22. The SEAC in its meeting held on **29-04-2023** decided to take the decision on the proposal after receipt of the following from the proponent raised during site visit:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	The site is connected with a public road on Prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that	Permission letter for constructing approach Road Bridge over Prachi Canal for transportation. Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur	The query raised was to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain. Here PP has submitted only permission to construct the

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	<p>the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.</p>	<p>Distributary, Mouza – Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabik Khata No. 426, Hal Khata No. 297, Mouza –Pandra, Tahasil – Bhubaneswar. Permission letter no. 6908/we on dated 27/11/2019 is attached as Annexure-(a).</p>	<p>Road Bridge over Prachi Canal for transportation.</p>
<p>2.</p>	<p>The PP has to submit the layout showing the drainage network starting from building site to natural nallah. The drain design needs to be prepared and approved by appropriate authority considering the data of RLs of bottom of drain at strategic locations and invert level of natural nallah, the runoff calculations during highest rain fall, so that the area is not flooded with rain water during heavy rainfall. The maximum ground water level vs proposed ground level, the parking area, RWH etc. (after construction) needs to be considered taking into account the maximum rainfall of the area for adequate structural stability.</p>	<p>As per the soil testing report, the water level depth is given below in BH NO-01:- 2.30m, BH NO-02:2.40m, BH NO-03:2.40m and BH NO-04:2.35m As per India- WRIS, The water level of the project area during pre-monsoon – 5.14 mbgl, post monsoon:- 3.72 mbgl and during monsoon – 2.2 mbgl Annual average water level is 3.71 mbgl The capacity of the recharge pit is designed to retain runoff at least 15 minutes rainfall of peak intensity. (10 recharge pit will be required having capacity of 6 cum according to CGWB norms) Drawing and design report for excess treated waste water and storm water has been approved by EIDP, Bhubaneswar, attached as Annexure – (h) We already received of NOC for water Supply & Sewerage Connection to the proposed Block (A) s1+s2+s3+10, Block (B) s1+s2+s3+10, Block (C) s1+s2+s3+18, Block (D) s1+s2+s3+18 Multi storied residential apartment building (MIG Category)</p>	<p>Drawing and design report is submitted in compliance report.</p>

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		over Plot No. 2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866 & Khata No. 1330/9654 in Mouza: Pandra, Bhubaneswar from Office of the Superintending Engineer PHD, BBSR vide letter no. 176, Dated 07/01/2023 which is attached as Annexure (b) .	
3.	The PP has to obtain necessary permission of the CGWA for utilisation of the ground water necessary during operational phase of the project in the absence of supply of PHED water.	The water requirement during the construction phase will be met from private water tankers.	The PP has taken NOC for water Supply & Sewerage Connection from Office of the Superintending Engineer PHD, BBSR vide letter no. 176, Dated 07/01/2023 to have own arrangement. NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149 with Date of Issuance: 11/04/2023 which is valid up to 10/04/2028 for --KLD obtained by PP.

24. Any deficiencies/omission have been noticed in the above documents-

- Whether SEAC recommended the proposal –**Ye, the proposal was placed in SEAC meeting held on 19.11.2024 and the SEAC recommended the proposal for EC valid for 10 years with specific and standard stipulated conditions.

Decision of Authority: Approved

After detailed deliberations in the matter, the Authority decided to **grant Environmental Clearance (EC)** with standard and specific condition as recommended by SEAC subject to condition that the PP shall construct drain for the above residential project at their own cost and expenses and will obtain clearance from private land owners as well as from Govt. Authority, as the case may be, in which drain will be constructed to nearest available disposal point within a period of two years. Further, the PP shall submit a compliance report with respect to the progress made in this regard to SEIAA, Odisha periodically. In, case the drain is not constructed within a period of 2 years, the EC shall stand ~~stand~~ automatically revoked.

Signed by


Member Secretary, SEIAA

Member, SEIAA


Chairman, SEIAA