



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### PARIVESH I.O, AGENDA No.01

Proposal No.	SIA/OR/MIN/422346/2023
Date of application	01.11.2023
File no.	422346/983-MINB2/11-2023
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Kharabhuin-I Stone Quarry over an area of 7.00 acres or 2.833 hectares bearing Khata no. 194, Plot no. 275/A in Kharabhuin village of Harabhanga Tahasil, District- Boudh State Odisha.
Name of the company/Organization	Sri Krutikas Mishra
Location of Project	Kharabhuin village of Harabhanga Tahasil, District- Boudh State Odisha

#### 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 SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of stone from Kharabhuin-I Stone Quarry over an area of 7.00 acres or 2.833 hectares bearing Khata no. 194, Plot no. 275/A in Kharabhuin village of Harabhanga Tahasil, District- Boudh State Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. F45S/10 and is bounded between the Latitude-20°35'12.2"N to 20°35'17.6" N and Longitude – 84°33'02.6"E to 84°33'13.30" E bearing Khata no. 194, Plot No. 275/A, KISSAM-Parbata
- (iii) The mining lease is an identified sairat source in the DSR. The Kharabhuin-I Stone Quarry sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Harabhanga to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-I, EMP, PFR, DLC, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, Harabhanga, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 1000/- vide e Challan Reference Id no. 3375E16242 dt. 21.10.2022
- (vii) Distance from nearest sanctuary/ESZ- Satkosia Gorge WLS-30.0 Km
- (viii) Whether the lease area coming in DLC report-No, as certified by Tahasildar, Harabhanga on 03.03.2023.
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-semi-mechanized and both drilling and blasting will be done
- (xi) Distance from nearest road bridge-4.80 km, Village road-1.30 km
- (xii) Whether it is part of cluster – Yes, Kharabhuin Jungle-I stone quarry (EC granted by SEIAA, Odisha) having lease area 2.023 coming under cluster. The PP has submitted cluster EMP with budget provision of Rs. 2.30 Lakh (Capital Cost), Rs. 2.20 Lakh/annum (Recurring Cost) for Kharabhuin-I Stone Quarry and the same budget for Kharabhuin Jungle-I stone quarry.
- (xiii) Whether EC obtained earlier-Yes, EC obtained earlier from SEIAA, Odisha vide letter no. 4510 dt. 17.08.2015 and submitted EC compliance.
- (xiv) Date of approval of mining plan- by the Deputy Director of Geology, South Zone, Berhampur vide letter no. 39 dt. 06.01.2020
- (xv) Production capacity per annum-10080 cum/annum (max.), total production in 5 years period-50400 cum, Geological reserve-309505 cum and Mineable reserve-230598 cum.



- (xvi) 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).
- (xvii) Budget provision for EMP of Rs. 2.30 Lakh (Capital Cost), Rs. 2.20 Lakh/annum (Recurring Cost) for Kharabhuin-I Stone Quarry and the same budget for Kharabhuin Jungle-I stone quarry.
- (xviii) Any deficiencies/omission have been noticed in the above documents- Nil

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29<sup>th</sup> April, 01<sup>st</sup>, 02<sup>nd</sup>, 03<sup>rd</sup> & 04<sup>th</sup> May 2024 and the SEAC recommended to grant EC valid from the date of EC accorded up to the lease period with following additional conditions.

- i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.
- ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured
- iii) Plantation programme to be completed within first two years and to be maintained in remaining years.
- iv) Depth of Mining as proposed should not be beyond 6m from the ground level.
- v) Mitigation measures for flying Rock for safety be put in place.
- vi) Stone quarry project proponent need to maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the stone quarry for ensuring that working personnel are not affected by silicosis.
- vii) The boundary area of the deposit as per the revised / updated DSR to be defined by geo coordinates based on DGPS survey superimposed on the cadastral map.
- viii) Construction of garland drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity.
- ix) All removed topsoil to be stacked and used for plantation in the surroundings of mining area / post mine closure in the mined-out area. (x) All recommended precautions for blasting operations to be followed. Blasting to be done by DGMS approved agency. No explosives to be stored at the mining lease site.

#### Decision Of Authority: Approved

After detailed deliberations, the Authority decided to grant **Environmental Clearance (EC)** with usual stipulated conditions as applicable for stone quarry.

- Maximum depth of mining 6.0 meter from the surface level and maximum quantity of extraction shall be limited to **10080 cum per annum (max.)**.
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA 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 also 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).
- The Project Proponent (lease holder) shall deposit Rs.1,50,000/-, with the respective District Environment Society for raising 300 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.



**Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024**

The PP will implement the EMP with a budgetary allocation of Rs. 2.30 Lakh (Capital Cost), Rs. 2.20 Lakh/annum (Recurring Cost) for Kharabhuin-I Stone Quarry and the same budget for Kharabhuin Jungle-I stone quarry is for Occupational Health and Safety of the workers, management of quarry on environmental point of view and peripheral development of quarry surrounding area.

**APPROVED BY**

  
Member-Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



PARIVESH 1.0, AGENDA No.02	
Proposal No.	SIA/OR/MIN/404022/2022
Date of application	26.12.2023
File no.	404022/1002-MINB2/12-2023
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Khilamunda-II Stone Quarry over an area of 5.00 Acres or 2.023 Ha having Khata No. 16 Plot No. 114 in the village Khilamunda, Tahasil Padmapur in district Rayagada, State Odisha, on favour of Sri Gourinath Mahapatra
Name of the company/Organization	Sri Gourinath Mohapatra
Location of Project	village Khilamunda, Tahasil Padmapur in district Rayagada, State Odisha

#### 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 SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of stone from Khilamunda-II Stone Quarry over an area of 5.00 Acres or 2.023 Ha having Khata No. 16 Plot No. 114 in the village Khilamunda, Tahasil Padmapur in district Rayagada, State Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. E44F15 & E44F16 and is bounded between the Latitude-19°15'21.42"N to 19°15'27.38" N and Longitude – 83°49'44.65"E to 83°49'49.40" E bearing Khata no. 16, Plot No. 114, KISSAM-Parbata.
- (iii) The mining lease is an identified sariat source in the DSR. The Khilamunda-II Stone Quarry sariat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Padmpur to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, EMP, PFR, DLC, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, Padmpur, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 1000/- vide e Challan Reference Id no. 3375E16242 dt. 21.10.2022
- (vii) Distance from nearest sanctuary/ESZ- Lakhari Valley WLS-54.0 Km
- (viii) Whether the lease area coming in DLC report-No, as certified by Tahasildar, Padmpur on 14.10.2022.
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-semi-mechanized and both drilling and blasting will be done
- (xi) Distance from nearest road bridge-7.0 km, NH-320 road-0.30, Village road-0.60 km
- (xii) Whether it is part of cluster – No.
- (xiii) Whether EC obtained earlier-Yes. EC obtained earlier from DELAA, Rayagada vide letter no. 755 dt. 20.09.2016
- (xiv) Date of approval of mining plan- by the Joint Director of Geology, Zonal Survey, Koraput vide letter no. 722 dt. 29.09.2022
- (xv) Production capacity per annum-3440 cum/annum (max.), total production in 5 years period-17200 cum, Geological reserve-364446 cum and Mineable reserve-182665 cum.
- (xvi) 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



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

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).

(xvii) Budget provision for EMP of Rs. 1.30 lakh/annum

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

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29<sup>th</sup> April, 01<sup>st</sup>, 02<sup>nd</sup>, 03<sup>rd</sup> & 04<sup>th</sup> May 2024 and the **SEAC recommended to grant EC** valid from the date of EC accorded up to the lease period with following additional conditions.

- i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.
- ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured
- iii) Plantation programme to be completed within first two years and to be maintained in remaining years.
- iv) Depth of Mining as proposed should not be beyond 6m from the ground level.
- v) Mitigation measures for flying Rock for safety be put in place.
- vi) Stone quarry project proponent need to maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the stone quarry for ensuring that working personnel are not affected by silicosis.
- vii) The boundary area of the deposit as per the revised / updated DSR to be defined by geo coordinates based on DGPS survey superimposed on the cadastral map.
- viii) Construction of garland drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity.
- ix) All removed topsoil to be stacked and used for plantation in the surroundings of mining area / post mine closure in the mined-out area.
- x) All recommended precautions for blasting operations to be followed. Blasting to be done by DGMS approved agency. No explosives to be stored at the mining lease site.

### **Decision Of Authority: Approved**

After detailed deliberations, the Authority decided to **grant Environmental Clearance (EC)** with usual stipulated conditions as applicable for stone quarry.

- Maximum depth of mining 6.0 meter from the surface level and maximum quantity of extraction shall be limited to **3440 cum per annum (max.)**.
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA 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 also 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).
- The Project Proponent (lease holder) shall deposit Rs.1,50,000/-, with the respective District Environment Society for raising 300 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of 1.30 lakh/annum is for Occupational Health and Safety of the workers, management of quarry on environmental point of view and peripheral development of quarry surrounding area.

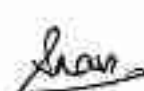


Member Secretary, SEIAA

APPROVED BY



Member, SEIAA



Chairman, SEIAA



**PARIVESH I.O. AGENDA No.03**

Proposal No.	SIA/OR/MIN/446199/2023
Date of application	28.09.2023
File no.	446199/994-MINB2/11-2023
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for EC of Gambharia Brick Earth Quarry Over an area of 0.99 Acres or 0.400 hectares in village Gambharia under Remuna Tahsil of Balasore District of Odisha.
Name of the company/Organization	Sri Padmalochan Jena of M/s. Mita Brick
Location of Project	village Gambharia under Remuna Tahsil of Balasore District of Odisha.

**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 SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of brick earth from Gambharia Brick Earth Quarry Over an area of 0.99 Acres or 0.400 hectares in village Gambharia under Remuna Tahsil of Balasore District of Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. 73-K/14 (F450/14) and is bounded between the Latitude-21°32'47.4"N to 21°32'52.0" N and Longitude - 86°54'41.00"E to 86°54'46.90" E bearing Khata no. 428/20, Plot No. 584, 584/1377, Kissam-Gharabari
- (iii) The mining lease is an identified sairat source in the DSR. The Gambharia Brick Earth Quarry sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Remuna to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-I, EMP, PFR, DLC, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, Remuna, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 1000/- vide e Challan Reference Id no. 35C46C829C dt. 28.09.2023
- (vii) Distance from nearest sanctuary/ESZ- Kuldiha WLS-20.24 Km
- (viii) Whether the lease area coming in DLC report-No, as certified by Tahasildar, Remuna on 13.07.2023.
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-semi-Manual, depth of mining-3.0 meter
- (xi) Distance from nearest road bridge-0.05 km, Village road-0.05 km, NH-16 is 50 meter, Electric Transmission line-50 m, Pond-100 m, River Embankment-50m, Village-25m
- (xii) Whether it is part of cluster - No
- (xiii) Whether EC obtained earlier-No.
- (xiv) Date of approval of mining plan- by the Mining Officer, Baripada vide letter no. Nil dt. 18.01.2021.
- (xv) Production capacity per annum-1206 cum/annum (max.), total production in 5 years period-6030 cum, Geological reserve-12210 cum and Mineable reserve-6030 cum.
- (xvi) 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).
- (xvii) Budget provision for EMP of Rs. 1.75 lakh/annum & Budget for Occupational Health and Safety of the workers (Lakhs) is Rs. 0.70 Lakh.
- (xviii) Any deficiencies/omission have been noticed in the above documents- Nil

**Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024**

7. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 24<sup>th</sup> April, 01<sup>st</sup>, 02<sup>nd</sup>, 03<sup>rd</sup> & 04<sup>th</sup> May 2024 and the SEAC recommended to grant EC valid from the date of EC accorded upto the lease period with following additional conditions.

- i) Plot no mentioned wrongly in DSR, as submitted, need to be certified and rectified by the DSR approving authority at the Distt level.
  - a. Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.
  - b. In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured.
  - c. The boundary area of the deposit as per the updated DSR defined by geo coordinates based on DGPS survey be superimposed on the cadastral map.
- ii) Plantation programme to be completed within first two years and to be maintained in remaining years.

**Decision Of Authority: Approved**

After detailed deliberations, the Authority decided to grant **Environmental Clearance (EC)** with usual stipulated conditions as applicable for brick earth quarry.

- The lease granting Authority shall ensure the Plot no mentioned wrongly in DSR, as submitted, need to be certified and rectified by the DSR approving authority at the Distt level.
- Maximum depth of mining of soil **2.0 meter** from the surface level/ground level at the site and maximum quantity of extraction shall be limited to **1206 cum per annum**.
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA 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 also 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).
- The Project Proponent (lease holder) shall deposit Rs.50,000/-, with the respective District Environment Society for raising 100 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of 1.75 lakh/annum is for environmental management of quarry area and peripheral development of quarry surrounding area and Rs. 0.70 Lakh for Budget for Occupational Health and Safety of the workers.

**APPROVED BY**

**Member Secretary, SEIAA**

**Member, SEIAA**

**Chairman, SEIAA**



**PARIVESH 1.0, AGENDA No.04**

Proposal No.	SIA/OR/IND1/439385/2023
Date of application	16.08.2023
File no.	439385/46-IND1/08-2023
Project Type	New EC proposal
Category	B1
Project/Activity including Schedule No.	2(b) Mineral beneficiation
Name of the Project	Proposal for EC of M/s. Misrilal Mines Private Limited for establishment of 30 TPH capacity Chrome Ore Beneficiation Plant having throughput of 198000 TPA and annual Chrome Concentrate production of 97000 TPA based on average grade 30% Cr <sub>2</sub> O <sub>3</sub> , At: Pankapal, Village: Nimapali, Tehsil: Sukinda, District: Jajpur
Name of the company/Organization	M/s. Misrilal Mines Private Limited Unit Ferro Alloys Division
Location of Project	Pankapal, Village: Nimapali, Tehsil: Sukinda, District: Jajpur
Date of ToR issued	02.08.2022
Name of Consultant	M/s Visiontek Consultancy Services (P) 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 SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s Misrilal Mines Private Limited for establishment of 30 TPH capacity Chrome Ore Beneficiation Plant having throughput of 198000 TPA and annual Chrome Concentrate production of 97000 TPA based on average grade 30% Cr<sub>2</sub>O<sub>3</sub>, At: Pankapal, Village: Nimapali, Tahasil: Sukinda, District: Jajpur of Sri Ujjwal Kumar Sinha.
2. **Category:** The project falls under category "B" or activity 2 (b) - Mineral Beneficiation projects under EIA Notification dated 14th September 2006 as amended from time to time.
3. **TOR details:** Terms of Reference Letter issued by SEIAA, Odisha vide letter no: - 5081/SEIAA with File no.- SIA/OR/MIN/72028/2022 dated 02.08.2022.
4. **Public hearing details:** The Public hearing was held on the scheduled date i.e. 28th Feb 2023 near JCDL Campus near JCD-NIMZ, Pankapal, Kalinga Nagar under Sukinda Tahasil of Jajpur District, Odisha. Issues raised during the public hearing area employment, peripheral development, plantation, ground water depletion and environmental pollution. Total budget incurred for the action plan of public hearing is 13.15 lakhs.
5. **List of Statutory Clearances obtained earlier -**
  - a) Total Land of 2.22 Acres already acquired with patta.
  - b) NOC from CGWA: CGWA/NOC/IND/ORIG/2022/16552 on dated 26/09/2022
  - c) Obtained Non availability of surface water certified by state public Health Department.
  - d) Obtained Letter from DFO to PCCF for diversion of forest area about 0.9 Ha. for proposed COB Plant vide letter no. 3767/5F on dated 06.05.2023.
  - e) Obtained letter from Forest Range Officer (Tonka Range) vide letter no: 761 on dated 02/06/2023 regarding absence of schedule-I species of wild animal in and around the lease hold area.

**6. Location and Connectivity** – The proposed project will be established near the Ferro Chrome Plant of M/s. Misrilal Mines Pvt. Ltd. at village Pankapul, PS- Kalinga Nagar, Tehsil - Sukinda in Jajpur district of Odisha State. The geo coordinates of the project are Latitude 20° 55' 10.88" N and Longitude 86° 00' 45.90" E. The contour varies from 35.8 to 42.4 m MSI, and the project falls under Survey of India bearing **Topo sheet no. 73L/1, H/13, G/16 & K/4**. The requirement of land for the proposed project is 0.9 Ha. It is owned by the Project proponent having Sabik Plot No. **1498/3243**. It is a patta land having kissam as non-forest (Pathara Khani) as per HAL and as per Sabik comparison, the proposed plot no. 1498/3243 is comes under jungle kism. Nearest Railway Station is Jajpur Road Railway Station at a distance of 12 Kms from the Project site. Nearest Airport is Biju Pattnaik International Airport at 150kms. Nearest Major Habitation is Jhakhapura village. Nearest NH/ Highway is NH – 53. Nearest RF/PF is Dangadi Protected Forest (Open Mixed Jungle) at 8.27 Km, Sunajhara PF – Badasila (Open Mixed Jungle) at 5.31 Km and Barhagaria (Open Jungle) at 7.53Km. Nearest rivers are - Brahmani River at 3.39 km, Pandara Nadi at 5.53 km and Ganda Nadi at 8.30 km. The area falls in Seismic Zone – III which is under Moderate Damage Risk Zone.

**7. Baseline study conducted:** Baseline study was conducted within the period of March to May 2022.

**Summary of Ambient Air monitoring: -**

- Particulate matter (PM<sub>10</sub>):** The maximum value for PM was 91.8 µg/m<sup>3</sup> observed at AAQ-8. The reason for high value may be due to presence of Bus stop and industrial area. The minimum value was 41.6 µg/m<sup>3</sup> observed at AAQ-5 as there is no major activity nearby. The average value ranged from 80.7 µg/m<sup>3</sup> to 43.7 µg/m<sup>3</sup>. 98<sup>th</sup> Percentile value ranged from 45.6 µg/m<sup>3</sup> to 91.8 µg/m<sup>3</sup>.
- Particulate Matter (PM<sub>2.5</sub>):** The maximum value observed was 55.1 µg/m<sup>3</sup> at AAQ-8. Reason for the high value may be due to presence of bus stop and commercial area. Minimum value observed was 25 µg/m<sup>3</sup> at AAQ-5. Average value ranged 26.2 µg/m<sup>3</sup> to 38.77 µg/m<sup>3</sup>. 98<sup>th</sup> percentile ranged from 27.4 µg/m<sup>3</sup> to 55.1 µg/m<sup>3</sup>.
- Sulfur dioxide (SO<sub>2</sub>):** The maximum value observed was 15.6 µg/m<sup>3</sup> at AAQ- 6 whereas minimum value of 4.1 µg/m<sup>3</sup> was observed at AAQ-5. The limits were well within the NAAQs standards. Average value ranged from 4.8 µg/m<sup>3</sup> to 8.11 µg/m<sup>3</sup>. 98<sup>th</sup> Percentile value ranged from 5.6 µg/m<sup>3</sup> to 15.6 µg/m<sup>3</sup>.
- Oxides of Nitrogen (NOx):** The maximum value observed was at 25.8 µg/m<sup>3</sup> at AAQ-6 and the minimum value of 8.1 µg/m<sup>3</sup> was observed at AAQ-5. The limits were well within the NAAQs standards. Average value ranged from 9.2 µg/m<sup>3</sup> to 13.78 µg/m<sup>3</sup>. 98<sup>th</sup> percentile ranged from 10.8 µg/m<sup>3</sup> to 25.8 µg/m<sup>3</sup>.
- Carbon Monoxide (CO):** The maximum value of 0.88 mg/m<sup>3</sup> observed at AAQ-6. The minimum value of 0.11mg/m<sup>3</sup> was observed at AAQ-4. Average value ranged from 0.13 mg/m<sup>3</sup> to 0.32 mg/m<sup>3</sup>. 98<sup>th</sup> Percentile value ranged from 0.16 mg/m<sup>3</sup> to 0.88 mg/m<sup>3</sup>.
- Ambient Noise:** The summary of the Ambient Noise Monitoring Result shows the Noise level within the permissible limits for all the locations. Ambient noise ranges from 43.6 dB(A) to 69.9 dB(A) during day time and 33.8 to 64.8 dB(A) during night time.
- Surface Water:** The surface water quality parameters were analyzed at eight locations for three months i.e. from March 2022 to May 2022. The pH value ranged from 7.33 to 7.81, TDS value ranged from 144 to 612. Colour ranges < 5 Hazen to 10 Hazen. Electrical conductivity value is confined between 184 µS/ to 1511µS/cm. Dissolved oxygen ranging from 6.1 to 7.4 mg/l. Highest turbidity value is 8.1 NTU and lowest is 4.1 NTU. Chloride content - Highest value is 408.8 mg/l and lowest is 8.8 mg/l. The TDS value 612.2 mg/l to 144 mg/l. Oil and grease levels 0.51 mg/l to lowest 0.084 mg/l. Biological Oxygen Demand (BOD) is within the permissible limits in and varies between 1.8 mg/l (SW-1) to 2.6 mg/l (SW-8). Chemical Oxygen Demand (COD) varies from 9.6 mg/l to 16.4 mg/l. All heavy metals like Arsenic, Lead, etc. are

below detectable levels. Quality wise surface water is fit for regular use but for drinking purpose it needs to be treated.

**h) Ground water:** The odour and taste at all the locations are agreeable. The maximum turbidity being 3.2 NTU and minimum turbidity is 1.2 NTU. The pH value varies from 6.68 to 7.6. The Iron content is high 0.395 mg/l & minimum is 0.028 mg/l. Total hardness ranges from 108 mg/l to 130 mg/l. Chloride content ranges from 10 mg/l to 44 mg/l. TDS ranges from 2269 mg/l to 248 mg/l. Heavy metals such as Lead, Arsenic etc. is below BDL at all the locations. These values shows that ground water is safe for domestic purpose in surroundings of the project area, but for safer side it is recommended to treat the water before drinking use.

**i) Soil Environment:** The color of the soil in the study region is mainly of red and reddish brown with acidic type. The pH value ranges were from 6.24 to 6.84. The region has soil texture of sandy loamy type which indicated that sand content of the soil is higher and dominant of other components of the soil. Conductivity ranges from 132.9  $\mu\text{S}/\text{cm}$  to 192.6  $\mu\text{S}/\text{cm}$ . At the project location the soil is Sandy Loam and at all the other monitoring locations the soil is sandy loam. Porosity of the soil at all locations is observed to be in between 50%- 58%. Moisture content is found to be in between 5.2% to 8.6 %. Chloride ranges from 124 mg/kg to 166 mg/kg. Total potassium ranges from 416.2 mg/kg to 489.2 mg/kg. Nitrogen content varies from 124.8 mg/kg to 274.8 mg/kg. Organic carbon varies from 0.66 % to 0.91 %.

**j) Ground Water Level in the Buffer Zone:** The pre-monsoon depth of water level in the study area varies from 4.46 mbgl at Jenapur to a maximum of 9.47 mbgl at Hatibari with the average of around 6.59 mbgl. The post-monsoon depth of water level in the study area varies from 1.41 mbgl at Duburi to a maximum of 3.63 mbgl at Danagadi with the average of around 2.55 mbgl. The seasonal fluctuation of depth to water level ranges from 2.87 m at Jenapur to a maximum of 6.94 m at Ambasar with an average of around 4.04 m. The entire area shows a rising trend.

**3. Raw material requirement:** The basic raw material is Low grade Chrome Ore which will be sourced from Odisha Mining Corporation (for which we have obtained necessary registration from OMC) and also from other mining resources from India and abroad. The raw material required for the project is low grade chrome ore having chromium content ranging from 20 to 40 %  $\text{Cr}_2\text{O}_3$ .

**9. Process description:** The Plant is based on gravity separation process with a feeding capacity 30 TPH comprises of feed Hopper, Reciprocating feeder, Primary Jaw Crusher and Hammer Crusher, Grinding Unit like Rodmill, conveyors, single deck Wet screening unit, and processing unit consist of slurry pumps, water pumps, stub cone and long cone hydro cyclones, dewatering cone, Fluidised Bed Concentrator (FBC), Rougher spirals, Cleaner Spirals, Tailings Scavenger Spirals and Tailings Cleaner Spirals, Shaking Table (Triple deck) stock piling areas, Ground water reservoir, Zero discharge Tailings Pond.

**10. Standard procedure:** Chemical dosing system will be there near the 1st settling tank and dosing done according to requirement at tank No-1. The water of the COB process and tailing may hazardous in nature due to the presence of chromium. If hexavalent Chromium factor arises, then it is to be neutralized by adding a ferrous sulfate solution to the process to detoxify hexavalent chromium and convert into trivalent chromium which is not harmful. Ferrous iron added for reduction of hexavalent chromium is being oxidized to ferric iron and subsequently precipitated as Ferric Hydroxide. Polyelectrolyte is added to enhance settling of the precipitate and suspended solids.

**11. Total water requirement and waste water management:** About 90 KL/day of water will be required for the process as make up water which will be drawn from Ground water. Water requirement of the process (Make up water) will be 80 KLD, Dust suppression and other necessary work 5 KLD, and about 5KLD will



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

be used for drinking water. The company obtained necessary approval from Central Ground Water Board to draw 95 KLD Water.

Sl.	PARTICULARS	QUANTIT Y	SOURCE
i)	Process Water Requirement (Make Up Water)	80 KLD	Ground water
ii)	Dust suppression and other necessary work	5 KLD	Ground water/treated water
iii)	Drinking Water	5 KLD	Ground water

**12. Power Requirement and solar power details:** The proposed Chrome Ore Beneficiation Plant requires a contract demand of 500 KVA. The existing Ferro chrome plant has a dedicated 132KV Double Circuit line from Old Daburi Substation from an Independent Bay. Power can be obtained from the Ferro Chrome plant substation with necessary statutory permission.

**13. Rain water harvesting details:** The total runoff available from Rooftop will be around 3529 cum/annum, which can be stored in the reservoir pit in the industry premises, and runoff available from road & Paved area will be approx. 3176 cum/annum which will be used to recharge the ground water via recharge pit after treatment.

Location	Area in Sq.m	Rainfall per annum (m)	Runoff coefficient	Total Harvestable quantity (Cu.m)/ Annum	
Corrugated Roof	2385	1.557	0.9	3342.101	3529
Roof top	150	1.557	0.8	186.84	
Paved area and Road	2040	1.557	0.6	1905.768	3727
other areas	1425	1.557	0.4	887.49	
Green area	3000	1.557	0.2	934.2	
<b>Total</b>	<b>9000</b>				

**14. Greenbelt Development:** Green belt area provided more than 33% of the total plot area (3000 sqm)

The PP initiated the plantation program along the boundary, near the material storage area and office building. About 50 saplings of Teak, Chakunda, Neem, Simarouba, Hibiscus, Nerium etc.

### PROPOSED GREEN BELT PLAN

Location	Area Under Plantation	No. of saplings Planted	Species Proposed
Green Belt around the plant boundary	3000 SQM (9m width)	750	<i>Dalbergia sisoo, Cassia siamea, Gmelia arborea, Tectona grandis, Alstonia scholaris, Azadirachta indica, Bamboo sps, Mangifera indica, Phyllanthus emblica, Punica granatum, Psidium guajava, Mimosops elengii, Hibiscus rosa sinensis, Nerium aliander</i>



Open space plantation		20	<i>Cassia siamea, Tecoma sps, Hibiscus sps, Nerium sps, Nyctanthes etc</i>
Plantation along the internal Road		15	<i>Dalbergia sisoo, Cassia siamea, Gmelia arborea, Acacia sps, Tectona grandis, Alstonia scholaris</i>
Near COB plant		35	<i>Mimosops elengit, Alstonia scholaris, Cassia siamea, Gmelia arborea</i>
<b>Total</b>	<b>3000</b>	<b>820</b>	

**The proposed Green belt will be developed within 2 years of the plant operation**

15. **Solid waste generation and management:** The solid waste generated will be in form of Tailings mud. The quantity of Tailings will be 1,01,000 TPA. Dry cake of COIBP tailing will be utilised to fill up low lying areas of Ferro chrome plant area, subjected the said materials do not contain any toxic materials. Some studies are in pipeline to have commercial use of tailings. Till then, they will be handed over to Ramkey for preservation/disposal of the same. They have registered in Ramkey, since long for such disposal of Hazardous wastes. Other solid wastes like waste cottons, empty bags, rejected gaskets, empty bottles, hand jerry canes, steel structures and rejected spares of process equipment etc., generated may have scarp value and shall be disposed off with price realization to the authorized vendors. Used oil will be disposed to authorized reprocessing units having valid authorization from Odisha State Pollution Control Board.
16. **Manpower requirement:** The Plant would operate for about 330 days in a year. The estimated requirement of employment is about 50 employees (direct and indirect) to operate the plant
17. **Project Cost:** The Project cost of the proposed project is Rs. 560 lakhs and EMP cost is Rs.60.00 lakhs (Capital cost) and Rs.12 lakhs (Recurring cost).

SL. NO.	DETAILS	Cost in Lakhs
1	Land Labeling and Civil Construction	100
2	New Equipment procurement	250
3	Electrical and Automation	100
4	Installation and commissioning	50
5	Environment Management Plan	60
	<b>TOTAL</b>	<b>560</b>

**Table: EMP cost**

S. NO	HEADS	CAPITAL COST (RS. IN LAKHS)	RECURRING COST PER ANNUM (RS. IN LAKHS)
i)	Air Pollution Control	20.00	
ii)	Water Pollution Control	20.00	
iii)	Environment Monitoring and Management	-	5.00
iv)	Occupational Health	3.00	1.00
v)	Green Belt	2.00	1.00
vi)	Others (House Keeping & Remedial Activities)	5.00	3.00
vii)	Fund allocated for Corporate Environmental Responsibility (CER).	10.00	2.00
	<b>Total</b>	<b>60.00</b>	<b>12.00</b>



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

18. **Environment Consultant:** The Environment consultant M/s Visiontek Consultancy Services (P) Ltd., Bhubaneswar along with the proponent made a presentation on the proposal before the Committee.

19. The SEAC in its meeting held on dated 01-09-2023 decided to take the decision on the proposal after receipt of the following from the proponent.

20. The proponent has uploaded only the Final EIA Report as compliance report in Parivesh 1.0 and has send all the queries raised by the SEAC in seac.odisha.2019@gmail.com which has been verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Permission letter from the Water Resources Department for the use of ground water as the water usage is too high i.e., 90 KLD.	<p>About 90 KL/day of water will be required for the process as make up water which will be drawn from Ground water. Water requirement of the process (Make up water) will be 80 KLD, Dust suppression and other necessary work 5 KLD, and about 5KLD will be used for drinking water. The company obtained necessary approval from Central Ground Water Board to draw 95 KLD Water. Already gets the permission from the Water Resources Department for consumption of 90 KLD and in conversion it will be 4.5 KLD which is very negligible for run a plant. Process water Balance table is submitted in compliance report.</p> <p>Process Water Requirement-80 KL/HOUR Water Reclaimed to Reservoir - 76 KL/HOUR Make Up Water Requirement-4 KL/HOUR (80 KLD) We proposed to collect the rain water from roof of office and Plant building to one point within the plant premises. We arrange harvesting/artificial recharge of the rain water. The total Runoff available from Rooftop will be around 600 to 1000 cum/annum, which can be stored in the reservoir pit in the industry premises, and runoff available from road &amp; Paved area will be approx. 4000 cum/annum which will be used to</p>	Copy of Permission letter from the Water Resources Department for the usage of ground water is not submitted.



		recharge the ground water via recharge pit after treatment.	
	The proponent shall not use the dry tailing in land fill. The PP shall carry out a mineralogical analysis of the tailings, determine the solutes for the presence of Hexavalent Chromium and carry out sludge quantification and chromium balance and accordingly, decision to be taken for disposal of tailings to TSDF if applicable. If the proponent will store the dry stacking of tailings, then it should be lined by geotextile membrane along with engineering designs so that leaching won't take place. If the Project Proponent determines to use dry tailings for landfill process, then complete description of the whole process to be submitted. If Project Proponent proposes to handover COB tailings to Ramky, then supporting documents to be submitted.	The conversion from Hexavalent Chromium to Trivalent Chromium will be done by the treatment of Ferrous sulphate solution before the generation of tailing and the tailing will be dumping on impervious ground (Concrete floor) & also its testing will be carried out and its report time to time will be produced to SEAC before disposal. We have obtained permission and made agreement with M/s. RE SUSTAINABILITY LIMITED (Previous known as M/S RAMKY) for disposal of tailing. A copy of Agreement made with M/S. RE SUSTAINABILITY LIMITED is enclosed in <b>Annexure- Point-2</b>	Agreement copies submitted.
3.	The proponent shall provide the complete material balance with quantity for Chromium along with its sludge disposal plan for the tailings of COB plant.	The complete material balance report with Quantity of Concentrate Chromium along with its Quantity of slug or tailing disposal plan of COB plant is submitted in compliance report. Material Balance Flow Chart in the Preliminary Stage which will be operate in the Plant with the following capacity as per the Tailing disposal capacity. Annual Feed (36% Cr <sub>2</sub> O <sub>3</sub> ): 1,71,000 MT Product considering 34% Cr <sub>2</sub> O <sub>3</sub> : 102,000 MT Tailing for disposal 9.5 % Cr <sub>2</sub> O <sub>3</sub> : 68,000 MT	Material Balance submitted.
4.	The SEAC suggested for separate land acquisition for handling of tailings of COB plant, as currently 0.9Ha. project land will be	For the time being we have made Agreement with M/s Re Sustainability Limited towards disposal of tailing. In the meantime, PP will acquire land	For the time being the PP had made Agreement with M/s Re-



# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	insufficient for the landfill purpose of tailings.	nearly for disposal of tailing in proper guidelines of SEAC.	Sustainability Limited.
5.	The proponent shall furnish detailed land use breakup including greenbelt development and other plant facilities, storage of raw material, product and tailings.	Land Break up of core zone is submitted in compliance report. Based on available data, the land use pattern of the core zone area is observed that land put under existing green belt is about 10 % and proposed green belt will be 23 % of total project area (2.22 Acre). The Plant facilities under defined project area are about 45%. The Internal roads are covering an area about 7.59% of total core zone.	-
6.	The Proponent shall provide Surface Runoff Management/Treatment Plan for the whole plant to collect the runoff in monsoon.	Total Harvested rain water calculated 7256cum	-
7.	Copy of application along with supporting documents to know the current status of Forest Clearance applied for 0.9Ha.	<b>Requirement of Land: The requirement of land for the proposed project is 0.9 Ha.</b> It is owned by the Project proponent having Sabik Plot No. 1498/3243, It is a patta land having kissam as non-forest ( <b>Pathara Khani</b> ) As per HAL and Sabik comparison the proposed plot no. 1498/3243 is comes under jungle kissam. So we are applied for Stage -1 forest clearance. File was forwarded to PCCF by letter no. 3767 on dated 16 May 2023. Copy of application along with supporting documents is attached as <b>Annexure -point-7</b>	The current status of Forest Clearance applied for 0.9Ha. - File has been forwarded to PCCF by letter no. 3767 on dated 16 May 2023.
8.	Include the compliance of the Specific TOR in EIA and submit the revised EIA report.	Compliance of the Specific TOR in EIA and the revised EIA report is submitted as <b>Annexure-point-8</b>	Final EIA/EMP is submitted.
9.	Traffic study report should be vetted by institute of repute.	Vetted Traffic study report is attached as <b>Annexure-point-9</b>	Traffic Study is not vetted. LOS is found to be "B".
10.	Transport vehicles carrying the materials should be properly covered	Whenever transport will be carried out, the carrying material will be covered properly with proper clamping and	-



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	while plying through the transportation routes.	sealing, so that no material can be disposed or waste outside which will be strictly followed while playing through the transportation route.	
11.	Avoid recharging of rainwater, as it might contain hexavalent Chromium rather than use the rain water collected in plant.	Recharging Rain water will be collected in the Rain Water Harvesting Pond & then pumping to treated and used for COB process plant operation	-
12.	Previously, there was a Beneficiation Plant in the same location. Present status of that beneficiation plant and proposed plan for operation of the existing Beneficiation Plant.	No Beneficiation plant was there on the applied location of the Project. During Auction process M/s. TATA obtained the lease and the dismantled COB plant which was functioned previously located at Saruabil Chromite Mines of M/s. Misrilall Mines Pvt. Ltd. at a distance of 40Km from the applied Project area being shifted by transportation. All machinery, spares and other infrastructures are kept inside the existing Ferro Chrome Plant Boundary.	-
13.	Detailed proposal for Zero Liquid Discharge (ZLD).	Zero Liquid discharge will be settled through 5 Nos. of Tailing Pond followed by the Chemical treatment and Tailings were settled in the Zigzag manner and in the 5 <sup>th</sup> pond only available of fresh water which recovered the 95% of feed Process water to the plant and then pumping it to recirculation for operation of the plant. So, no water goes outside from the plant. Hence, we will get the Zero Discharge Liquid (ZLD) water.	-
14.	Proponent was mentioning about dry storage of tailing which is not the common practice due to associated dusting pollution. Thus, the PP needs to provide current tailing ponds dimensions, its capacity, current status, proposed tailing pond dimension, capacity and management of tailings with Cr+6. All the above to	The Annual Tailing generation will be 68000 MT having grade of 9.5 % $Cr_2O_3$ from Feed quantity 1,71,000 MT of ROM having grade 36 % $Cr_2O_3$ . We have made agreement with M/S. RE SUSTAINABILITY LIMITED towards disposal of 60,000MT of dry tailing. There will be buffer stock of tailing at plant site for which space proposed of impervious ground 18x17Mt i.e., 1260	-



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	be provided in a layout and if required a visit could be made.	sq.mt which can accommodate another 10000Mt Approx. of dry tailing considering 5 Mt height.	
15.	Since tailings containing Cr <sup>+6</sup> are hazardous and sizeable quantities would be generated almost on daily basis, the plan of dry disposal through authorized agency is a not viable option. The PP needs to elaborate in case they still plan to do so and the agency capabilities for such wastes, its management in details to be submitted for further verification if required.	As we treated with Chemicals before generation of Tailings, so there is less chance of getting Cr+6 (Hexavalent Chromium). However, if the tailing contains Cr+6, then the same will be treated to convert Cr3 and the same will be disposed to Certified Authorized Agency M/s Re Sustainability Limited with whom we have made agreement for disposal of the same.	-
16.	Levels of chromium in the ground water samples collected from the study area for preparation of the EIA/EMP report to be recorded and they will be used as references for monitoring possible ground water contamination during operation phase of the project.	After running of COB Plant, the level of Chromium in the ground water will be collected from the study area for preparation of EIA/EMP report to be recorded and they will be used as reference for monitoring.	-
21. The SEAC observed that the proponent has uploaded only the Final EIA Report in compliance report in online system and has send all the queries raised by the SEAC to the official mail ID - seac.odisha.2019@gmail.com.			
<p><b>Whether SEAC recommended the proposal</b> – The proposal was placed in the SEAC meeting held on 29.04.2024 and the SEAC Considering the information furnished and the presentation made by the consultant M/s Visiontek Consultancy Services Pvt. Ltd., Patia along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per Annexure – A and following specific conditions. <b>However, the Environmental Clearance shall be issued by the SEIAA, Odisha after receipt of Stage-I Forest Clearance from the proponent as stipulated in MoEF&amp;CC, Govt. of India office memorandum no. J-11013/41/2006-IA, II(I), dated 09.09.2011 and office memorandum no. J-11013/41/2006-IA, II(I), dated 18th May, 2012 and after they upload other documents in online portal.</b></p> <ul style="list-style-type: none"> <li>i) The proponent shall obtain permission from the Water Resources Department for the usage of ground water.</li> <li>ii) Traffic Study Report shall be vetted by institute of repute.</li> <li>iii) The waste water that will be generated from the tailings shall be treated in ETP wherein hexavalent Chromium shall be reduced to trivalent Chromium by dosing it with appropriate standard chemical following due technical procedure.</li> <li>iv) The PP shall obtain NOC to use the Panchayat roads from the concerned BDO for transportation of both input materials and finished products including the responsibility of maintaining the road if damaged by such transportation.</li> </ul>			

As the PP will implement the dry stacking of tailings, there will be trickling down of effluent. Also during rain, the leached effluent from stack will trickling down. PP shall ensure collection of these effluents for treatment with routine analysis to ensure satisfying the standard before it is discharged. All data shall be kept for periodical compliances.

The PP shall make all efforts to adopt ZLD.

- vii) As per the information given in the final EIA/EMP report the proposed project is for chrome ore (20 to 40%  $\text{Cr}_2\text{O}_3$ ) beneficiation plant having throughput of 1,98,000 TPA (30 TPH) for producing chrome ore concentrate ( $\text{Cr}_2\text{O}_3 > 50\%$ ) of 97000 TPA. The production of chrome ore tailings containing  $\text{Cr}_2\text{O}_3$  in the range of 8.5 – 9.5% is estimated to be 1,01,000 TPA. The report states that the tailings will be used for constructing roads inside the plant as well as will be given for making highways and the surplus of any will be given M/s RE SUSTAINABILITY LIMITED (Ramkey group). The project proponent has entered into agreement towards disposal of only 60,000MT of dry tailings with M/s RE Sustainability Limited, who is authorised to handle hazardous waste under the "Hazardous and other wastes (Management & Transboundary Movement) Rules 2016." Note under Schedule I of the above-mentioned rule states that

*"The high-volume low effect wastes such as fly ash, Phosphogypsum, red mud, jarosite, Slags from pyrometallurgical operations, mine tailings and ore beneficiation rejects are excluded from the category of hazardous wastes. Separate guidelines on the management of these wastes shall be issued by Central Pollution Control Board."*

The chrome ore tailings being mine tailings M/s RE Sustainability Limited is not authorised to handle the chrome ore beneficiation plant tailings. The project proponent has capacity to hold only 10000 MT tailings inside its plant premises. The project proponent shall prepare a long-term action plan for utilization and management practice of tailings and submit the same before going for construction activities.

- 8) Construction of road, highway using chrome ore tailings is not permitted owing to the hazard of hexavalent chromium leaching to adjacent water bodies and the ground water. Entire volume of generated chrome ore tailings needs to be handled, stored and utilised in an environmentally sound manner such as manufacture of chrome bricks for utilisation in industries, long term storage in engineered pits with impermeable lining etc.

**Decision of Authority: ADS**

After detailed deliberations, the Authority decided that the project proponent (PP) is required to submit the Stage-I FC of proposed plant area and also submit long-term action plan to address chromium accumulation inside the plant premises.

Member Secretary, SEIAA

APPROVED BY

Member, SEIAA

Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### PARIVESH 1.0, AGENDA No.05

Proposal No.	SIA/OR/MIN/439359/2023
Date of application	09.08.2023
File no.	439359/595-MINB2/08-2023
Project Type	New EC proposal
Category	B2 in individual quarry and B1 in cluster approach.
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for EC of Khemabeda Decorative stone mines over a mining lease area of 4.755Ha. (Total cluster area is 9.696 Ha. ) located in village Khemabeda, Tahasil - Boipariguda, District- Koraput of Sri Hotha Venkatesh
Name of the company/Organization	Sri Venkatesh Hotha
Location of Project	village Khemabeda, Tahasil - Boipariguda, District - Koraput
Date of ToR issued	02.08.2022
Name of Consultant	M/s Kalyani Laboratories Private Limited, Bhubaneswar

#### **Proposal in brief:**

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

1. This proposal is for Environmental Clearance for Khemabeda Decorative stone mines over a mining lease area of 4.755Ha. The Total cluster area is 9.696 Ha. located in village Khemabeda, Tahasil - Boipariguda, District - Koraput of Sri Hotha Venkatesh.
2. **Category:** As per EIA Notification, 2006 and subsequent amendments the project falls under Category B1 under Schedule of item of 1(a) - Mining of Minerals.
3. Letter of Intent from Govt. of Odisha, Dept. of Steel & Mines, has issued vide letter no. 1484 SM-NC2-MC0002-2021 of S&M, Bhubaneswar, on dated 08.02.2021 for grant of mining lease of 4.755 Ha.
4. Successful bidder is Sri Hotha Venkatesh residing at H. No. 16.31-IXMI-203 9th Phase, Near Community Ground, KPHB colony, Hyderabad for a period of 30 years.
5. The Mining Plan along with the PMCP for 4.755 ha. was approved by Director of mines, Bhubaneswar vide letter No. MXXII-(b) 12/2021 9441/DM dated 02.12.2021.
6. This source is not present in the DSR report of the district, as this is newly demarcated source by mining department.
7. Another mine i.e., Khemabeda Decorative stone over an area of 4.941Ha. is located within the 500m from the proposed project so the project comes under cluster approach with total area of 9.696Ha. Cluster certificate has been issued by Mining officer, Koraput, Odisha.
8. **TOR details:** Approved Terms of Reference (TOR) was issued by SEIAA, Odisha vide letter no. 5085/SEIAA (SEIAA File No. SIA/OR/MIN/73400/2022). Odisha dated 02.08.2022.
9. **Public hearing details:** The public hearing of Khemabeda Decorative Stone mines cluster was conducted on Dtd.08.02.2023 at 11:00 A.M. at village Khemabeda under Boipariguda Tahasil of Koraput, Odisha. Major issues raised during the meeting are: - protection of agricultural land due to vehicles movement.

construction of boundary wall and mandap for village Temple, school boundary, drinking water supply to villages and school, employment of local youths / villagers on priority basis in the Mines, construction of school for children, Installation of mobile tower so that the children will online education, repair of road in the area. Yearly health camps and plantation activities in the area, Guard walls on the bridge, Ambulance facilitation. Budget allocated towards public hearing is 22.66 Lakhs.

10. **Location and connectivity:** Khemabeda Decorative Stone mines cluster is situated at Village Khemabeda No.200, Tahasil - Boipariguda, District - Koraput, Odisha State. The proposed project area of 4.755Ha. is bearing Khata No. 315, Plot No-1355/p and the other mine area of 4.941Ha. is bearing Khata no. 315, Plot No-1355,1356,1360. The cluster area is coming under Parbat KISSAM and type of land is Abada Ajogya Anabadi. The project site falls in survey of India Toposheet no.65J/6 (B44K6). The area of 4.755Ha. having geo coordinates as follows - latitudes 18°38'09.67" N to 18°38'15.09 N & longitudes 82°24'5.59" E to 82°24'16.79" E. The other mine area of 4.941Ha. have geo coordinates as latitudes 18°38'13.9" N to 18°38'21.8" N & longitudes 82°24'18.6" E to 82°24'26.8". The nearest railway station is Koraput Railway Station at an aerial distance of 37 Km. The lease area can be approached from NH- 5 & SH- 25 at 38 Km & 6.2 Km. The nearest water body is Nagavalli River at 8.2 Km and nearest Reserved Forest is Dasamstpur RF - 5.0 Km and nearest Village is Khemabeda Village - 2.5 Km. The Project is not located within Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified by the MoEF&CC. The nearest sanctuary is Karlapat Wildlife Sanctuary is situated 98km distance from the lease area.
11. **Reserves and total production:** Total geological reserves of the 4.755Ha. mine will be 358480 cum and mineable reserves is 252128.40cum. Total geological reserves of the 4.941Ha. mine will be 579955 cum and mineable reserves is 425181cum. Total production in 5years is 3500cum and cluster production will be 4700cum/annum.
12. **Mining method:** Opencast semi mechanized method with the deployment of Machines like Jack Hammer Drill, Compressor, Hydraulic Excavators & Tippers will be adopted for excavation of the mine. Volume of Decorative Stone will be 700 (cum)/annum. Maximum depth of excavation will be up to 630mRL and ground level is at 610mRL. The loaded vehicles will cover distance of approximately 10km to meet SH 25.
13. **Waste generation and management:** Total intercalated waste from proposed Granite during 5 years of plan period is 13440m<sup>3</sup>. Out of total waste, 40% of the waste will be used for construction and maintenance of the road i.e., 5376m<sup>3</sup>. Remaining 806 m<sup>3</sup> waste will be dumped in the dump area at an average height of 2.5m in an area of 3301m<sup>2</sup>.
14. **Water Requirement:** Total water requirement is 7 KLD out of which dust suppression is 2 KLD, Plantation is 3 KLD and drinking/ domestic is 2 KLD.
15. **Power Requirement:** DG set will be used for total power requirement.
16. **Baseline Study:** Baseline study conducted in period March 2022 to May 2022.

PERIOD	March to May 2022	Applicable Standards
Air Quality Parameters At 8 Locations	PM <sub>2.5</sub> - 16.7 to 30.6 µg/cum	60 µg/cu.m
	PM <sub>10</sub> - 34.3 to 56.2µg/cum	100 µg/cu.m
	SO <sub>2</sub> - 5.2 to 9.9 µg/cum	80 µg/cu.m
	NO <sub>x</sub> - 9.1 to 19.5 µg/cum	80 µg/cu.m
	pH - 6.6 to 7.3	6.5 to 8.5



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

Ground water Quality at 3 Locations	Total Hardness - 36 to 72 mg/l	600 mg/l
	Chloride - 10.0 to 18.0 mg/l	250 mg/l
	Fluorides - 0.05 to 0.96 mg/l	1.5 mg/l
	TDS - 80 to 140 mg/l	1000 mg/l
	Heavy metals : BDL (Cd <0.001, As <0.01, Hg<0.0001) mg/l Detection limits of analysis method	Heavy metals: (Cd <0.003, As <0.01, Hg<0.001) mg/l
Surface water at 2 locations	pH - 6.7 to 7.0	
	Dissolved Oxygen - 7.1 to 7.5mg/l	
	Biochemical Oxygen Demand - 1.5 to 2.5 mg/l	
	Chemical Oxygen demand- 6 to 15 mg/l	
Noise at 8 locations	Day (dBA Leq)- 35.9 to 45.7	55
	Night (dBA Leq) - 29.0 to 36.1	45
Soil Quality at 4 locations	pH - 6.10 to 6.7, Potassium - 43 to 87.4 kg/Ha., Phosphorous -19.8 to 40.8 kg/Ha., Total Organic Carbon % - 0.85 to 0.98, Electrical Conductivity - 65 to 80 $\mu$ s / Cm.	

17. **Greenbelt Development:** During the period of 5 years there are 2500 no. of saplings will be planted both sides of the road and safety zone of the project side.

18. **Manpower:** Total 47 no. of employees will be required for the cluster and for the proposed mine manpower requirement is 22 nos.

19. **Project Cost & EMP cost:** Project cost of the cluster is Rs. 500 Lakhs. For Environment management Plan: Capital cost of the project 6.0 lakhs per each mine and recurring cost is 6.2 lakhs per each mine.

20. **Environment Consultant:** The Environment consultant M/s Kalyani Laboratories Private Limited, Bhubaneswar along with the proponent made a presentation on the proposal before the Committee.

21. The SEAC in its meeting dated **29.08.2023** 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:

S L N o.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Rectify the discrepancy between the lease area mention in Approval Letter of Mining Plan (4.775 ha.) and area applied for EC i.e., 4.755	Khemabeda Decorative Stone mine cover 11.75 acres or 4.755 Ha of land. Due to clerical mistake in the approved mining plan letter was	Corrected copy submitted



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	It, and revise the same from the mining officer.	written as 4.775Ha, which was corrected letter. The rectify letter approved by Joint Directors of mines of Koraput Circle, Koraput has been given as a <b>Annexure I</b> .	
2.	The proponent shall ensure that the topsoil excavated shall be stored in an earmarked area and the same shall be used in waste land filling along with plantation on it. A detailed proposal to this effect to be submitted.	The lease area is a rocky area with granite exposed area. There is no top soil present in the lease area. However, during the mining if any soil excavated that will be stores along the boundary of the lease area i.e., in the safety zone and used for plantation purpose.	-
3.	Copy of DSR with inclusion of proposed sairat source in DSR.	Copy of approved DSR attached as Annexure -2, Serial No - 28, Page No-43.	Copy submitted

Considering the information furnished and the presentation made by the consultant, **M/s Kalyani Laboratories Private Limited, Bhubaneswar** along with the project proponent

**2. Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29.04.2024 and the, the SEAC recommended for grant of Environmental Clearance upto lease period with stipulated conditions as per **Annexure – B and following additional conditions;**

- Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.
- The project proponent shall maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the decorative stone quarry for ensuring that working personnel are not affected by silicosis.
- The project proponent shall follow proper procedure as advised by Forest Deptt. for tree felling or transplantation of those trees within safety zone. Provision for compensatory afforestation must be done by equal number of plantations in consultation with Forest Deptt.
- The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for fodder, flora, fauna etc. after ceasing mining operation that is at the time of mine closure.
- Detail risk and hazard management procedure as per the **Annexure – C** shall be followed by the lessee.

### **Decision Of Authority: Approved**

After detailed deliberations, the Authority decided to **grant Environmental Clearance (EC)** with usual stipulated conditions as applicable for decorative stone quarry.

- Maximum depth of mining upto 630 mRL and ground level is at 610 mRL and maximum quantity of extraction shall be limited to **700 cum per annum**.
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA 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 also as per the



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

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).

- The Project Proponent (lease holder) shall deposit Rs.2,50,000/-, with the respective District Environment Society for raising 500 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of Rs. 6.0 Lakh (Capital Cost), Rs. 6.2 Lakh/annum (Recurring Cost) and CER cost of Rs. 22.66 Lakh.

### APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA




<b>PARIVESH I.O, AGENDA No.06</b>	
Proposal No.	SLA/OR/MIN/408631/2022
Date of application	24.05.2023
File no.	408631/989-MINB2/11-2023
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Thelakudar Stone Quarry-2 over an area 2.30acres or 0.930 hectares in Thelakudar village under Koira tahasil of Sundergarh district, Odish
Name of the company/Organization	Sri Katakata Janagayn Narayana Prusty
Location of Project	Thelakudar village under Koira tahasil of Sundergarh district, Odish

**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 SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of stone from Thelakudar Stone Quarry-2 over an area 2.30acres or 0.930 hectares in Thelakudar village under Koira tahasil of Sundergarh district, Odish.
- (ii) The mining area is a part of Survey of India Toposheet No. F45M13 and is bounded between the Latitude-21°59'06.73"N to 21°59'08.52" N and Longitude – 84°57'56.66"E to 84°58'01.48" E bearing Khata no. 26 , Plot No. 126/P, Kissam-Pahad
- (iii) The mining lease is an identified sairat source in the DSR. The Thelakudar Stone Quarry-2 sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Koira to the successful bidder (lessee) on the basis of public-auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, EMP, PER, DLC, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, Koira, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 1000/- vide e Challan Reference Id no. 35BDBD331F dt. 16.08.2023
- (vii) Distance from nearest sanctuary/ESZ- Ushakothi WLS-76.0 Km
- (viii) Whether the lease area coming in DLC report-No, as certified by Tahasildar, Koira on 17.11.2022.
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-semi-mechanized and both drilling and blasting will be done
- (xi) Distance from nearest road bridge-2.2 km, Village road-1.5 km
- (xii) Whether it is part of cluster – Yes, Thelakudar Stone Quarry-1 coming under cluster having lease area-4.046 Ha EC granted by DEIAA, Sundergarh on vide letter no. 96, dt.14.03.2019. Cluster EMP submitted with budget provision of Rs. 1.30 Lakh/annum
- (xiii) Whether EC obtained earlier-Yes. by DEIAA, Sundergarh on 14.03.2019
- (xiv) Date of approval of mining plan- by the Deputy Director of Mines-Cum-Authorized Officer, Koira vide letter no. 3020 dt. 30.09.2022
- (xv) Production capacity per annum-12000.8 cum/annum (max.), total production in 5 years period-60004 cum, Geological reserve-186669.2 cum and Mineable reserve-81686.4 cum.
- (xvi) 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).
- (xvii) Budget provision for EMP of Rs. 1.30 lakh/annum
- (xviii) This is a violation case and the PP has submitted Proforma-2



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

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

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29<sup>th</sup> April, 01<sup>st</sup>, 02<sup>nd</sup>, 03<sup>rd</sup> & 04<sup>th</sup> May 2024 and the SEAC observed the following:

- i) As per letter no. 1670 dated 14.08.2023 of Tahasildar Koida penalty amount is 16,90,000 and quantity is 495000 cum but now reported penalty amount is 17,40,000 and quantity is 475000cum. Reasons for such difference are not clear.
  - ii) As per Mining Plan approved on 30.09.22 total minable reserve was 81686.4 cum. As per letter no 1670 dated 14.08.23 period of violation is 1.6.21 to 31.3.23 and material illegally taken is 495000 cum. Certificate from competent mining official is required to confirm availability of material to be excavated.
  - iii) As per proforma-2 this is a case of violation. SOP for the same is not in force at present.
- Hence **SEAC decided to return the proposal to SEIAA for necessary action.**

### Decision of Authority: Rejected

After detailed deliberations, the Authority decided to reject the project proposal as per SEAC recommendation with the opinion that there is an excess mining in the lease area by the PP and the PP himself submitted Proforma-2 applicable for violation case. SOP for the same is not in force at present since Hon'ble Supreme Court has stayed the operation of said OM on SOP dtd. 7<sup>th</sup> July, 2021 and OM dtd. 28<sup>th</sup> January, 2022.

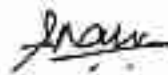


Member Secretary, SEIAA

APPROVED BY



Member, SEIAA



Chairman, SEIAA



PARIVESH 1.0, AGENDA No.07	
Proposal No.	SIA/OR/MIN/405459/2022
Date of application	04.02.2023
File no.	405459/872-MINB2/02-2023
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Ganganapur-A Stone Quarry over an Area of 6.725 Acre or 2.721 Ha. at Village/Mouza-Ganganapur, Tahasil-Purushottampur, Dist- Ganjam in favor of Sri Manoj Kumar Behera.
Name of the company/Organization	Sri Manoj Kumar Behera.
Location of Project	Village/Mouza-Ganganapur, Tahasil-Purushottampur, Dist- Ganjam.

### 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 SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of stone from Ganganapur - A Stone Quarry over An Area Of 6.725 Acre Or 2.721 Ha. At Village / Mouza- Ganganapur, Tahasil- Purushottampur, Dist- Ganjam.
- (ii) The mining area is a part of Survey of India Toposheet No. – 74A/14, 74A/1 and is bounded between the Latitude- 19° 31' 00.56" N to 19° 31' 05.49" N, Longitude – 84° 47' 56.25" E to 84° 48' 4.67" E, bearing Khata no. 810, Plot No. 2391, KISSAM-PARBAT
- (iii) The mining lease is an identified sarnat source in the DSR. The Ganganapur-A Stone Quarry sarnat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Purushottampur to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, EMP, PFR, DLC, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, Purushottampur, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 1000/- vide c Challan Reference Id no. 33767CDD18 dt. 31.10.2022
- (vii) Distance from nearest sanctuary/ESZ- Nalabana WLS-56.0 Km
- (viii) Whether the lease area coming in DLC report-No, as certified by DFO, Brahmapur letter no.993 dt. 01.02.2021.
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-semi-mechanized and both drilling and blasting will be done
- (xi) Distance from nearest road bridge-2.86 km, **Village road-0.11 km**
- (xii) Whether it is part of cluster – No
- (xiii) Whether EC obtained earlier-Yes, by DEIAA, Ganjam vide letter no. 1748 dt. 26.09.2016
- (xiv) Date of approval of mining plan- by the Deputy Director of Geology, South Zone, Berhampur vide letter no. nil dt. 09.09.2022
- (xv) Production capacity per annum-5951 cum/annum (max.), total production in 5 years period-29755 cum, Geological reserve-276657 cum and Mineable reserve-223374 cum.
- (xvi) 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 Vers. Pawan Kumar and Others).
- (xvii) Budget provision for EMP of Rs. 2.50 lakh (Capital Cost) and Rs. 0.35 Lakh/annum (Recurring Cost).



## **Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024**

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

**Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29<sup>th</sup> April, 01<sup>st</sup>, 02<sup>nd</sup>, 03<sup>rd</sup> & 04<sup>th</sup> May 2024 and the SEAC recommended to grant EC valid from the date of EC accorded up to the lease period with following additional conditions:

- i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.
- ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured
- iii) Plantation programme to be completed within first two years and to be maintained in remaining years.
- iv) Depth of Mining as proposed should not be beyond 6m from the ground level.
- v) Mitigation measures for flying Rock for safety be put in place.
- vi) Stone quarry project proponent need to maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the stone quarry for ensuring that working personnel are not affected by silicosis.
- vii) The boundary area of the deposit as per the revised / updated DSR to be defined by geo coordinates based on DGPS survey superimposed on the cadastral map.
- viii) Construction of garland drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity.
- ix) All removed topsoil to be stacked and used for plantation in the surroundings of mining area / post mine closure in the mined-out area.
- x) All recommended precautions for blasting operations to be followed. Blasting to be done by DGMS approved agency. No explosives to be stored at the mining lease site.

### **Decision Of Authority: Approved**

The authority observed that the village road is 0.11 km away from the proposed mining area. The minimum distance criteria for permitting stone quarrying of CPCB vide their letter no. CPCB/IPC-II/NGT-OA 304 of 2019/2020 dt. 12.05.2020 stipulates that minimum distance criteria be **100 meters when blasting is not involved and the minimum distance be 200 meters when blasting is involved.**

After detailed deliberation in the matter, the Authority decided to grant EC with specific condition **that mining shall not involve blasting.**

- **No blasting is allowed in this case and the PP is required to modify the mining plan in respect to no blasting before quarry operation.**
- Maximum depth of mining 6.0 meter from the surface level/ground level at the site and maximum quantity of extraction shall be limited to **5951 cum per annum.**
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA 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 also 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).

**Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024**



The Project Proponent (lease holder) shall deposit Rs.1,50,000/-, with the respective District Environment Society for raising 300 plants (minimum @100 trees per Ha) of native species within 2 years at a suitable location adjoining to quarry.

The PP will implement the EMP with a budgetary allocation of EMP of Rs. 2.50 lakh (Capital Cost) and Rs. 6.35 Lakh/annum (Recurring Cost).

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### PARIVESH 1.0, AGENDA No.08

Proposal No.	SIA/OR/MIS/257303/2022
Date of application	17.01.2023
File no.	257303/14-MIS-V/01-2023
Project Type	Expansion of EC under violation category
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction
Name of the Project	Proposal for proposed expansion of residential complex "Mani Tribhuvan" (Formerly Known as "Mani Tirumala") over built-up area of 76050.80 sqm at Mouza: Kalarahanga, P.S: Chandrasekharpur, Nandan Kanan Road, Dist. Khurda of Sri Prithwiraj Mukherjee.
Name of the company/Organization	MANI TIRUMALA PROJECTS PVT LTD
Location of Project	Mouza: Kalarahanga, P.S: Chandrasekharpur, Nandan Kanan Road, Dist. Khurda
ToR issue date	12.10.2021
Name of Consultant	M/s. Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar

#### 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 SEAC/SEIAA, are given as under.

- This proposal is for environmental clearance for proposed expansion of residential complex "Mani Tribhuvan" (Formerly Known as "Mani Tirumala") over built-up area of 76050.80 sqm at Mouza: Kalarahanga, P.S: Chandrasekharpur, Nandan Kanan Road, Dist. Khurda of Sri Prithwiraj Mukherjee.
- Category:** The project requires prior Environmental Clearance under the provisions of EIA Notification, 2006 and subsequent amendment and falls under Category B of activity 8(a)-Building & Construction projects.
- Project details:** Mani Tirumala Projects Pvt. Ltd., the project proponent has completed the construction of the residential complex "MANI TRIBHUBAN" (Formerly known as "MANI TIRUMALA") at Plot Nos. 13,15,21 to 31, 33, 36, 37,38,28/2573, 40 to 49, 58, 59 & 125 (Part), Mouza- Kalarahanga, P.S.- Infocity, Nandan Kannan Road, District- Khurda, Odisha. The Project Proponent under the Existing part of the project has constructed 11 Blocks of buildings of G+14 configuration comprising of 603 dwelling units. 22 additional flats have been constructed in the existing 11 Towers. Out of these 22 flats, 16 (sixteen) flats have been built by rearranging the ground floor and 6(six) flats are constructed as upper floors in the 11 existing towers. The current configurations of dwelling units stand at 625 nos.
- Additionally, as a part of earlier proposal, minor civil constructions of few blocks of G+5 & G+6 configurations have been carried out up to different stages. The proposal had been later dropped and the proponent has decided that these structures will be all demolished. This matter has been already recorded and documented in Page 53 of 68 of the Proceedings of the SEAC meeting held on 19.03.2021.
- Terms of Reference (TOR) has been granted by SEIAA, Odisha vide letter no. 3345/SEIAA, dated 12.10.2021 under Violation Category.



vi) Existing Environment Clearance was granted by SEIAA vide letter no. SEIAA/200/ENV dated 02.04.2011.

vii) BDA has approved the building plan vide letter no. 3537/BDA/Bhubaneswar, dated 13.02.2017.

viii) **Location and Connectivity:** The proposed site is located at Kalarahanga, Bhubaneswar, Odisha. The geographical co-ordinate of the project site is Latitude - 20°22'9.08"N & Longitude - 85°50'3.35"E. The project site is well connected with Nandan Kanan road which take towards National Highway-16 (Kolkata-Chennai Road). Nandan Kanan road is 0.1 Km from proposed site. The nearest railway station is Mancheswar Railway station at a distance of approx 5.0 Km in South direction. The nearest airport is Biju Patnaik Airport at a distance of approx. 13.0 Km in South direction from project site. The site is easily accessible from Nandan Kanan Road.

ix) **Comparative Land details:** The total plot area of the existing & proposed project will be 41,075.20sqm and built up area of existing project is 76,050.80sqm & built up area of proposed project (22 Flats) is 1906.66 sqm, so total built up area of the existing & proposed project is 77957.46 sqm.

**Table: Comparative statement**

Sl. No.	Features	Phase-I As Per Environmental Clearance Vide Ref. No. SEIAA/200/Env Dated 02.04.2011	Additional Construction 22 Flats in 11 Towers	Current Scenario
i)	Land Area	41075.20 SQM	0.00 SQM	41075.20 SQM
ii)	Configuration	11 blocks of G+14 storied comprising of 603 flats with a Club house	22 Flats have been added in the existing 11 blocks. Out of these 22 Flats, 16 No. Flats have been built by rearranging the ground floors and 6 No. Flats are constructed as upper floor(s) in the 11 existing towers	11 Blocks of G+14 storied comprising of 625 Flats with a Club House
iii)	No. of flats	603 Nos	22 Nos	625 Nos
iv)	Built-up area	76050.80 SQM	1906.66 SQM	77957.46 SQM
v)	Population	3317 persons permanent residents, 302 persons for Club	110 persons	3427 persons permanent resident 302 persons for Club
vi)	Total water requirement	566.7 KLD	16.40 KLD	583.1 KLD
vii)	Wastewater generation	428.2 KLD	13.30 KLD	441.5 KLD
viii)	Treated wastewater from STP	415.3 KLD	12.97 KLD	428.27 KLD
ix)	Treated	259.8 KLD	6.11 KLD	265.91 KLD



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

x)	waste/water recycled			
xi)	Treated wastewater discharged	168.9 KLD	6.86 KLD	175.76 KLD
xii)	STP capacity	450 KLD (350KLD +100KLD)	Wastewater will be treated in the existing STPs	450 KLD (350KLD +100KLD)
xiii)	Solid Waste generation	1.50 TPD	0.058 TPD	1.558 TPD
xiv)	Total Power Requirement	3938.00 KW	130.00 KW	4068.00 KW
xv)	DG sets	4x250KVA, 2 x 380 KVA	Current configuration of DGs provided will suffice additional back-up power requirement	2 x 320KVA 1x125KVA (Not installed as there is no occupancy)
xvi)	Rainwater Recharge pits	06 Nos	No Change	06 Nos
xvii)	No. of Car Parking	653 Nos	22 Nos	675 Nos
xviii)	Green Area	5596.00 SQM	0.00 SQM	5596.00 SQM

x) **Water requirement:** Total water demand for the proposed expansion part of the residential complex project during operation stage will be around 16.40 KLD. Daily freshwater requirement to the tune of 10.29 KLD will be sourced from Ground Water Supply System. Relevant permission from the respective authorities has already been obtained. In addition, treated wastewater to the tune of 6.11 KLD will be utilized in toilet flushing, landscaping and car washing, etc.

Sl. No	Category	Population	Per capital Water demand (LPCD)	Water demand (KLD)			Type of water	
				Domestic (KLD)	Flushing (KLD)	Total (KLD)	Fresh (KLD)	Treated (KLD)
i)	Residential Population	110	135	9.90	4.95	14.85	9.90	4.95
ii)	Floating Population	11	15	0.06	0.11	0.17	0.06	0.11
iii)	O & M Population	11	45	0.33	0.17	0.50	0.33	0.17
iv)	Car wash (nos.)	22	-	-	-	0.88	-	0.88
	<b>TOTAL</b>			10.29	5.23	16.40	10.29	6.11

**TOTAL WATER REQUIREMENT: 16.40 KLD**

xii) **Wastewater Treatment:** It is expected that the project generates approx. 428.2 m<sup>3</sup>/day of wastewater. Wastewater generated in additional 22 nos. of flats is 13.3 KLD which is treated in existing STP of capacity 330 KLD & 100 KLD. STPs is based on SBR (Sequential Batch Reactor) Technology have been set-up for the existing configuration of the 11 Towers.

xiii) **Solid Waste Generation and Its Management:** From the residential complex, solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.4 kg/capita/day, which will be about  $110 \times 0.40 = 44.0$  kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate-colored bins. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste. Waste generated from Floating people will be @ 0.15 kg/capita/day, which will be about 3.3 kg/day. Waste generated from Street Sweeping will be 11.0 kg/day.

Sl. No.	Category	Population	Rate (in kg/day)	Total (in kg/day)
i)	Residential Population	110	0.4	44
ii)	Floating Population	11	0.15	1.65
iii)	O&M Population	11	0.15	1.65
iv)	Street Sweeping	110	0.1	11
<b>Total - 58.30 kg/day</b>				

xiii) **Rainwater harvesting:** Rainwater harvesting has been catered to and designed as per the guideline of CGWA. Peak hourly rainfall has been considered as 85 mm/hr. The recharge pit of 3.0 m length, 3.0 m breadth and 2.5 m depth is constructed for recharging the water. At the bottom of the recharge well, a filter media is provided to avoid choking of the recharge bore. Total no. of rainwater harvesting pits provided will be 06 Nos.

xiv) **Power requirement:** The total consolidated electrical load estimate for project is about 4068 KW. Power will be supplied by 11 KV source of TPCODI. Also, in case of power cut, 100 % power backup generator will be provided for common uses only. For this purpose, diesel generator having 200 KVA 2 X 320 KVA, 1 X 125 KVA capacities will be provided. There are 10 kw of Solar Panel is installed at site.

xv) **Greenbelt:** Green belt is developed over an area of 5596 sqm; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc.

xvi) The cost assessment related to environmental degradation and its remediation would be: Rs.28,20,891.00.

xvii) Total Budgetary Allocation as per the table:

Sr. No.	Description	Estimated Cost (Rs.)
i)	Estimated cost of damage / remediation with respect to ecological aspects.	28,20,891
ii)	Community resource augmentation plan	50,000
<b>Net Expenditure:</b>		<b>28,70,891</b>

New Ambulance has been provided to Sri Sri University, Odisha of cost Rs. 3,49,585.00.

xxv) The project have applied for grant of EC under the Violation Window on 12<sup>th</sup> Sept 2017, hence the project doesn't fall under the Penalty Provisions as per Notification F. No. 22-21/2020-IA.III, dated 07.07.2021. Hence the project proponent has requested for waived off towards penalty provision clause.

xix) **Project cost:** Estimated Project cost is around Rs. 80 Crores and environment management cost is Rs 3.6 Crores.

xx) **Environment Consultant:** The Environment consultant **M/s. Centre for Envotech& Management Consultancy Pvt. Ltd., Bhubaneswar**, along with the proponent made a presentation on the proposal before the Committee on dtd. 14.02.2023.

xxi) The SEAC in its meeting held on dated 14-02-2023 recommended the followings:

i) **The proponent may be asked to submit the following for further processing of EC application.**

- Undertaking by PP to carryout demolition of minor civil constructions of few blocks of G+5 & G+6 configurations as per ToR conditions, within a stipulated time frame and submit detail time scheduled for demolition.
- NOC/permission from concerned authority for discharge of additional quantity of treated waste water to nearest drain.
- Details of solar power generation along with calculation. Revised EMP budget incorporating cost of solar installation.
- Provide photographs of rainwater harvesting structures. Provide the location of rain water harvesting structures along with photographs.
- Certified compliance report to earlier EC conditions from MoEF&CC, Govt. of India.

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

- Construction activity, if any started for the project at the site.
- Progress of the demolition work as recommended in ToRs.
- Any other issues.

xxii) The proposed site was visited by the sub-committee of SEAC on 29.03.2023. Following are the observations of the sub-committee:

- Both PP and Consultant with other team members were present.
- During visit, it was observed that, demolition of the unauthorized construction is going on. PP informed that the work of demolition will be done by a month maximum. No fresh construction done in this area.
- Installation of solar PV panels were observed at the roof top
- Green belt, drain and road facilities are available.
- Other documents as asked during presentation to be submitted.

xxiii) 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.	Undertaking by PP to carryout demolition of minor civil constructions of few blocks of G+5 & G+6 configurations as per ToR conditions, within a stipulated time	The demolition work is already in progress.  During the site visit of sub-committee of SEAC, the demolition work was ongoing at its full swing. The demolition	Complied and Annexure -1 is attached.

# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024



	large and submit detail time scheduled for demolition.	work shall be completed within 30 <sup>th</sup> May 2023.  The undertaking regarding the same along with demolition photographs is annexed hereto as <b>Annexure -1</b> .	
2.	NOC/permission from concerned authority for discharge of additional quantity of treated water to nearest drain.	Drainage permission has been obtained from Bhubaneswar Development Authority vide letter no. 66/EM, dated 08.01.2015. During construction of additional 22 nos. of Flats minor waste water i.e 6.86 KLD is discharged to nearest drain. The drainage permission is attached in <b>Annexure-2</b> .	NOC not attached for discharge of additional quantity of treated water to nearest drain.
3.	Details of solar power generation along with calculation. Revised EMP budget incorporating cost of solar installation.	Please find attached a note on details of solar power generation of 106kw annexed hereto as <b>Annexure-3</b> .	Solar energy proposed is too less.
4.	Provide photographs of rainwater harvesting structures. Provide the location of rain water harvesting structures along with photographs.	Total 06 nos. of Rainwater Harvesting pits has been constructed at site. The rainwater harvesting structure is marked in Layout plan. Layout plan is annexed as <b>Annexure -4</b> and Rainwater Harvesting Photographs are annexed as <b>Annexure -5</b> .	Annexure -4 and 5 is attached.
5.	Certified compliance report to earlier EC conditions from MoEF& CC, Govt. of India.	The Certified Compliance report of earlier EC has been obtained from IRO Bhubaneswar vide letter no. 109-34/2022-EPE, dated 04.11.2022. The certified compliance report is attached in <b>Annexure -6</b> .	-

xxiv) The project proponent has intimated that they have applied for grant of EC under the Violation Window on 12th Sept 2017, hence the project doesn't fall under the Penalty Provisions as per Notification F. No. 22-21/2020-1A.III, dated 07.07.2021. Hence the project proponent requested that penalty provision clause may kindly be waived out.

xxv) The SEAC in its meeting held on dated 13-07-2023 decided to take decision 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.	NOC for discharge of additional quantity of treated	Dear Sir, please note that the NOC in this regard was accorded by the Panchayat. Furthermore, the BDA had also directed the project Proponent to use	The PP has submitted No Objection certificate from



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	water to nearest drain is not attached.	the nearest drain (Budhi-Nala) for discharge of additional quantity of treated water. Please find the NOC of the Panchayat, letter of BDA and Building Permit by the BDA attached herewith marked with Annexures "A", "B" & "C" respectively.	Panchayat and BDA since there is no facility for public drain, and PP have to construct their own drainage system to nearest drain for the proposed building.
2.	The project proponent to indicate the system of storm water drainage, rainwater harvesting system and recharge well.	Dear Sir, please find a plan attached herewith marked with Annexure "D" which indicates the system of storm water drainage and rainwater harvesting. The said plan also provides sections of the storm water collection sump and the recharge wells constructed at the Project.	Layout submitted showing the details.
3.	Total cost of the project & total turnover cost.	Dear Sir, the total cost of the Project was estimated at Rs. 70 crores, which finally came to Rs 100.34 crores. The total Turnover of the Project has come to Rs. 180.48 crores. Please find attached as Annexure "E" as certificate from as Chartered Accountant certifying the same.	As certified by JKK & Company LLP, Kolkata Chartered Accounts.
4.	The OM F No. 22-21/2020/IA. III, dtd. 07.07.2021 of MoEF& CC, Govt. of India regarding SoP for violation cases stipulates that the percentage rates of penalty shall be halved if the project proponent suo-moto reports such violations without such violations coming to the knowledge of the Government either on inquiry or complaint. In this case, the violation has been identified	Dear Sir, the above Clarification has been in two parts. Firstly, Please draw your attention towards a portion of the above clarification set out hereunder-  <u>"The OM F No.22-21/2020/IA.III dtd.07.07.2021 of MoEF&amp; CC, Govt of India regarding SoP for violation cases stipulates that the percentage rates of penalty shall be halved if the project proponent suo-moto reports such violations without such violations coming to the knowledge of the Government either on inquiry or complaint. In this case, the violation has been identified at the time of appraisal of the proposal for grant of Environmental Clearance"</u>  Please draw your attention towards the second paragraph of the Notification bearing OM F No. 22-21/2020/IA.III dtd. 07.07.2021 of MoEF& CC, Govt. of India. Please note here that the Notification first came into existence on 14.03.2017 and was applicable for a period of six months from the date of publication. Now in our case, we had made as	---



at the time of appraisal of the proposal for grant of Environmental Clearance. Further, the OM on dtd. 07.07.2021 is applicable for the violation cases which has not been disposed off after date of notification of the OM i.e., 07.07.2021. Hence, the claim of the proponent that they have applied for grant of EC under the Violation Window on 12th Sept 2017, hence the project doesn't fall under the Penalty Provisions as per Notification F.No. 22-21/2020-IA.III, dated 07.07.2021 is not acceptable. The proponent has to deposit the penalty as per percentage given in the OM dtd. 07.07.2021 and detailed calculation to this effect shall be submitted.

application to SEAC, Odisha before the notification came to existence. Thereafter, once we learnt about the abovementioned Notification, we applied under the Violation Window vide letter dated 11.09.2017 (Annexure "F"). Please find set out below the first two paragraphs of the letter dated 11.09.2017-

" Recently we learnt from the Gazette of India MoEF Notification dated 14.03.2017 that we have to apply to EAC Delhi under violation case for the Environmental Clearance of our above mentioned project.

In accordance with the above we are enclosing documents as required for your kind perusal".

Sir, the project proponent humbly submits that there was no complaint made against the project proponent and there was no inquiry initiated by SEAC, Odisha because of which, violation came to the notice to the Department. Hence, we pray that such facts be given due consideration.

Secondly, please draw your attention to the other part of the same clarification here in below –

The OM on dtd. 07.07.2021 is applicable for the violation cases which has not been disposed of after date of notification of the OM i.e. 07.07.2021. Hence, the claim of the proponent that they have applied for grant of EC under the violation Window on 12<sup>th</sup> Sept 2017, hence the project doesn't fall under the Penalty Provisions as per Notification F No. 22-21/2020-IA.III, dated 07.07.2021 is not acceptable. The proponent has to deposit the penalty as per percentage given in the OM dtd. 07.07.2021 and detailed calculation to this effect shall be submitted.

Please draw your attention towards paragraph Nos. 5 & 6 of the Notification bearing OM F No. 22-21/2020/IA.III dated 07.07.2021 of MoEF& CC, Government of India which reads as under –

" 5. Therefore, in compliance to the directions of the Hon'ble NGT a standard Operation Procedure



(SoP) for dealing with violation cases is required to be drawn. The Ministry is also seized of different categories of 'Violation' cases which have been pending for want of an approval structural / procedural framework based on 'polluter pays principal' and 'Principal of Proportionality'. It is undoubtedly important that action under statutory provisions is taken against the defaulters / violators and a decision on the closure of the project or activity or otherwise is taken expeditiously.

6. In the light of the above directions of the Hon'ble Tribunal and the issues involved, the matter has accordingly been examined in detail in the Ministry. A detailed SoP has accordingly been examined in detail in the Ministry. A detailed SoP has accordingly been framed and is outlined herein. The SoP is also guided by the observations / decisions of the Hon'ble Courts wherein principles of proportionality and polluters pay have been outlined.

The 'polluter pays principal' is a principal whereby those who commit violation should bear the cost of managing it in order to prevent harm to human health and environment.

The 'principal of proportionality' is a general principal in law which is used as a criterion of fairness & justice in statutory interpretation processes, especially in constitutional law, as a logical method intended to assist in discerning the correct balance between the restriction imposed by a corrective measure and the severity of the nature of the prohibited act. In other words, an administrative action should not be more drastic than it ought to be. Thus, the punishment imposed by an administrative body must be reasonable and not excessive.

Now please draw your attention towards point No. 12 of the abovementioned Notification having the title "Penalty provisions for Violation cases and applications", Sub-Clause 12(b)(ii) states as below

"Where operation / production with expand capacity have commenced: 1% of the project cost



(attributable to the expansion activity) incurred upto the date of filing of application along with EIA/EMP report PLUS 0.25% of the total turnover (attributable to the expanded activity / capacity) involved during the period of violation."

Now Sir having brought to your attention the relevant provisions of the Notification mentioned here in above, please draw your attention towards the Application made under the Violation Window dated 11.09.2017 (Annexure "E").

"We had made an application to SEIAA, Odisha on 12.02.2017 for Phase-2 of our project where we had proposed to expand our project and consequently presentation was made before SEAC, Odisha on 27.03.2017.

The SEAC members had certain queries and issued us a clarification letter having Memo No. 258(3)/SEAC-Misc-28 dated 03.04.2017.

Sir, hereby inform humble submission of the project proponent that penalty should be imposed under Point No. 12(b)(ii) and NOT under Point No.12(a)(i) of the Notification.

Sir, please also consider certain facts in the instant case listed out below –

- Although the number of flats have increased from 603 to 625, but the project area has not increased proportionately as some of the additional flats have been carved out by re-arranging car parks and/or flats within the sanctioned area. Thus, the impact of this violation is negligible, if not none. Please draw your attention towards a table below which was also a part presentation to the respected committee members.

Features	Phase-I As per Environmental Clearance Vide Ref No. SEIAA/200/Env Dated 02.04.2011	Additional Construction 22 Flats In 11 Towers	Current Scenario
No. of flats	603 Nos	22 Nos	625 Nos



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	Built-up area	76050.80 SQM	1906.6 6 SQM	77957.4 6 SQM
	Population	3317 persons permanent residents. 302 persons for Club	110 persons	3427 persons permanent resident 302 persons for Club
<p>• In the instant case, Units have been increased from 603 to 625 which is approximately 4% increase. Now please imagine, if in another case the number of Units were increased from 603 to 900 which is approximately 50% increase. It is our assertion that both the cases would attract the same penalty under point No. 12(a)(ii) of the Notification which goes against the principal of proportionality upon which the entire Notification which goes against the principal of proportionality upon which the entire Notification is based. Thus, Point No. 12(b)(ii) should apply in the instant case.</p>				

xxvi) The Committee observed the following:

- Justification given by the proponent for exemption of penalty is not acceptable as it is not co-related to the illegal construction comparing to the construction work has already carried out as per the Environmental Clearance and demolition work has already done towards the illegal construction.
- PP as mentioned above in the table in last part want penalty as per 12 b ii which applies to the expansion cases. It is also an expansion case. So PP has to clarify if they are asking for exemption or want to be covered under category 12 b ii and not 12 a ii (which is for new projects).
- It is stated that the PP has to construct its own drain or facilitating discharge of excess treated sewage water as well as rainwater to Budhi nala. The PP needs to submit land documents evidencing its unhindered access to Budhi nala for the proposed drain.

xxvii) The SEAC in its meeting held on dated 13-11-2023 decided to take decision on the proposal after the proponent submit detailed information / documents as pointed out at para xxvi above.

xxviii) 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.	Justification given by the proponent for exemption of penalty is not acceptable as it is not co-related to the illegal construction comparing to the	The Site was visited by a respected member of the Sub-Committee of SEAC on 29.03.2023. During the day of the visit, the demolition of unauthorized construction was going on. The total demolition work was completed on 25 <sup>th</sup> May 2023. From that time the entire demolition works has been completed. Till today, no other construction works	---



	<p>construction work has already carried out as per the Environmental Clearance and demolition work has already done towards the illegal construction.</p>	<p>has been taken up. Please refer to the EC letter bearing Ref No. SEIAA/200/ENV dated 02.04.2011 attached herewith marked with Annexure "A" and please note that there is no unauthorized structure at the site and no fresh construction has been taken up.</p> <p>Please find attached as Annexure "B", some picture of the site evidencing the same. Please also find attached as Annexure "C", a declaration in this regard.</p>																	
2.	<p>PP as mentioned above in the table in last part want penalty as per 12 b ii which applies to the expansion cases. It is also an expansion case. So PP has to clarify if they are asking for exemption or want to be covered under category 12 b ii and not 12 a ii (which is for new projects).</p>	<p>The unauthorized structure or construction at the site as mentioned here in above does not exist anymore. The details of the actual situation is the EC for Phase – I has been appended below: -</p> <table border="1"> <thead> <tr> <th>Particulars</th><th>As per EC</th><th>Actual Scenario</th><th>Remarks</th></tr> </thead> <tbody> <tr> <td>Plot area</td><td>41075.20 SQM</td><td>41075.20 SQM</td><td>No Change</td></tr> <tr> <td>Built-up Area</td><td>76050.80 SQM</td><td>77957.46 SQM</td><td>The additional Built-up area of 1906.66 SQM has been mostly executed by rearranging car parks and/or flats within the sanctioned area and has been since regularized by the BDA.</td></tr> <tr> <td>Nos. of units</td><td>603</td><td>625</td><td>The additional 22 units</td></tr> </tbody> </table>	Particulars	As per EC	Actual Scenario	Remarks	Plot area	41075.20 SQM	41075.20 SQM	No Change	Built-up Area	76050.80 SQM	77957.46 SQM	The additional Built-up area of 1906.66 SQM has been mostly executed by rearranging car parks and/or flats within the sanctioned area and has been since regularized by the BDA.	Nos. of units	603	625	The additional 22 units	<p>The PP has mentioned in view of nominal increase in the number of units has led to no adverse impact on the environment. Thus, requested for exemption and if exemption is not acceptable by the respected Committee members, the PP should be covered under category 12 b (ii) and not under 12 a (ii).</p>
Particulars	As per EC	Actual Scenario	Remarks																
Plot area	41075.20 SQM	41075.20 SQM	No Change																
Built-up Area	76050.80 SQM	77957.46 SQM	The additional Built-up area of 1906.66 SQM has been mostly executed by rearranging car parks and/or flats within the sanctioned area and has been since regularized by the BDA.																
Nos. of units	603	625	The additional 22 units																



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

			<p>have also been regularized by the BDA vide letters dated 13.02.2017 and 16.01.2019, attached herewith marked with Annexure "D"</p>	
	<p>In view of the above, this nominal increase in the number of units has led to no adverse impact on the environment. Thus, if exemption is not acceptable by the respected Committee members, the PP should be covered under category 12 b (ii) and not under 12 a (ii).</p>			
<p>3.</p>	<p>It is stated that the PP has to construct its own drain or facilitating discharge of excess treated sewage water as well as rainwater to Budhi nala. The PP needs to submit land documents evidencing its unhindered access to Budhi nala for the proposed drain.</p> <p>The Budhi Nala is right next to the boundary wall of our project site. The Budhi Nala is abutting the Project site. Hence, no extra land is required for construction of drain for discharge of excess treated sewerage water as we already have unhindered access to the Budhi Nala. The drain for discharge of excess treated sewerage water is constructed within the project site and travels towards and has access to the Budhi Nala through the boundary as Annexure "E", a plan showing the project site and the Budhi Nala. Please also note that the NOC accorded by the Panchayat and the BDA in this regard has been submitted earlier with your department. Please also draw your attention towards the first picture in Annexure "B" where in the Budhi Nala is visible right next to the boundary wall.</p>			---
<p>2. <b>Whether SEAC recommended the proposal</b> – The proposal was placed in the SEAC meeting held on 29.04.2024 and the SEAC observed the following:</p>				

**Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024**

Since this is a violation case as reported by the PP in compliance report. Presently, the Hon'ble Supreme Court has stayed the operation of said OM of SOP dtd. 7<sup>th</sup> July, 2021 and OM dtd. 28<sup>th</sup> January, 2022. Hence, the proposal may be returned to SEIAA, Odisha for further action.

**Decision of Authority: Rejected**

After detailed deliberations, the Authority decided to reject the project proposal as per SEAC recommendation with the opinion that this is a violation case as reported by the PP in compliance report. SOP for the same is not in force at present since Hon'ble Supreme Court has stayed the operation of said OM on SOP dtd. 7<sup>th</sup> July, 2021 and OM dtd. 28<sup>th</sup> January, 2022.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



**PARIVESH I.O, AGENDA No.168.09**

Proposal No.	SIA/OR/MIN/306294/2023
Date of application	28.04.2024
File no.	SEIAA-687/09-2020
Project Type	Proposal for Amendment of EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for Amendment of EC of Chhidi Sand Quarry over an area of 12.35 acres or 4.997 Ha at Village-Chhidi, Tahasil-Gurundia, Dist-Sundargarh, Odisha
Name of the company/Organization	Sri SUDHIR HARICHANDAN
Location of Project	Village-Chhidi, Tahasil-Gurundia, Dist-Sundargarh, Odisha

**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 SEAC/SEIAA, are given as under.

- This is a proposal for amendment of EC of Chhidi Sand Quarry over an area of 12.35 acres or 4.997 Ha at Village-Chhidi, Tahasil-Gurundia, Dist-Sundargarh, Odisha
- The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. /EC Identification No. – 10139/SEIAA dt. 16.12.20220 and EC transfer on 28.12.2023 for Chhidi Sand Quarry over an area of 12.35 acres or 4.997 Ha at Village-Chhidi, Tahasil-Gurundia, Dist-Sundargarh, Odisha.
- During EC application the PP has submitted required documents along with mining plan where it is mentioned that mineable reserve of the proposed sand bed is 43477 cum with depth of sand deposition was 1.0 meter and proposed for annual extraction-20000 cum.
- The SEIAA allowed 20000 cum of sand for 1<sup>st</sup> year production with depth of mining 1.0 meter.
- There is an EC conditions point no. 9.1 to 9.2 in page no. 04 that "Pending carrying out of the study & submission of the report, this clearance is being granted in an adhoc manner and is liable to be revoked after one year i.e. after 15<sup>th</sup> November 2021, if satisfactory replenishment study report is not submitted."
- The PP has not mentioned the production details.
- The PP has submitted replenishment study report was done by the RQP Sri Zinu Sh. Sathua, M/s ZEGOTEK, the ORSAC empanel agency with mentioned that Mineable Reserve during Pre-monsoon survey- 2023 = 23,880Cum Mineable Reserve during Post-monsoon survey-2023 = 33,844Cum and quantity of sand replenished is 9964 cum and proposed production 20000 cum.
- Any deficiencies/omission have been noticed in the above documents-The PP has not complied the transfer of EC condition in regard to amount to be deposit to District Environmental Society for plantation.

**Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29<sup>th</sup> APRIL, 01<sup>st</sup>, 02<sup>nd</sup>, 03<sup>rd</sup> AND 04<sup>th</sup> MAY 2024 and the The SEAC recommended the following:

Replenishment study is not satisfactory due to following reasons-

- There is no increase in the surface elevation of the sand bed. In both pre monsoon and post monsoon it is at 1 meter. Thus no deposition of sand.
- Essential details as per guidelines are also missing.
- The increase in minable reserve is brought out by taking increased surface area for post monsoon survey which is at 56407 sq meter (5.6407 ha) while total lease area is 49970 sq meter (4.997 ha).

Hence, **Replenishment Study Report is not acceptable.**



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### Decision of Authority: Rejected

After detailed deliberations, the Authority decided to **reject the project proposal** as per SEAC recommendation with opinion that the Annual Rate of Replenishment Study (ARRS) report is not done as per guideline of MoEF & CC, Govt. of India. The PP is required to submit fresh ARRS report and apply afresh in Parivest 2.0. Portal.

  
Member Secretary, SEIAA

### APPROVED BY

  
Member, SEIAA

  
Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

PARIVESH I.O, AGENDA No.168.10	
Proposal No.	SIA/OR/MIN/305483/2023
Date of application	19.12.2024
File no.	SEIAA-1297/02-2021
Project Type	Proposal for Amendment of EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for Amendment of EC of Mangalpur Birupa River Sand Quarry over an area of 12.15 Acre or 4.92 Ha under Derabish Tahasil of Kendrapara District Odisha
Name of the company/Organization	Sri Satyajit Das
Location of Project	under Derabish Tahasil of Kendrapara District Odisha

### 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 SEAC/SEIAA, are given as under.

- This is a proposal for amendment of EC of Mangalpur Birupa River Sand Quarry over an area of 12.15 Acre or 4.92 Ha under Derabish Tahasil of Kendrapara District Odisha.
- The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. /EC Identification No. – 2090/SEIAA dt. 09.08.2021 and EC transfer vide letter no. 4844/SEIAA dt. 13.07.2022 for Mangalpur Birupa River Sand Quarry over an area of 12.15 Acre or 4.92 Ha under Derabish Tahasil of Kendrapara District Odisha.
- During EC application the PP has submitted required documents along with mining plan where it is mentioned that mineable reserve of the proposed sand bed is 43477 cum with depth of sand deposition was 1.0 meter and proposed for annual extraction-20000 cum.
- The SEIAA allowed 20000 cum of sand for 1<sup>st</sup> year production with depth of mining 1.0 meter.
- There is an EC conditions point no. 9.1 to 9.2 in page no. 04 that "Pending carrying out of the study & submission of the report, this clearance is being granted in an adhoc manner and is liable to be revoked after one year i.e. after 15<sup>th</sup> November 2021, if satisfactory replenishment study report is not submitted."
- The PP has not mentioned the production details.
- The PP has submitted replenishment study report was done by the RQP H.K. Sahoo, with mentioned that Mineable Reserve = 38100 Cum Mineable Reserve during Post-monsoon survey-2023 = 38122 Cum and quantity of sand replenished is **22873 cum** and proposed production 12000 cum.
- Any deficiencies/omission have been noticed in the above documents-Nil

**2. Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29<sup>th</sup> APRIL, 01<sup>st</sup>, 02<sup>nd</sup>, 03<sup>rd</sup> AND 04<sup>th</sup> MAY 2024 and the with observed the following:

- The contents of page 13 of the replenishment study report contain recommendation of consultant / PP. The post monsoon Geological Reserve and the post monsoon Mineable reserve quantity calculations are not available in the replenishment study report. In the absence of supporting calculations in spite of queries raised in shape of ADS, the replenishment study report is not convincing and not acceptable.
- It appears from the KML file photo that the project site is surrounded by water from all sides. Sand Mining will change the river course will change.
- Approach road to lease site requires permission from competent authority of Water resources Department.

**The SEIAA may take appropriate action as per rules for the proposal.**




**Decision of Authority: Rejected**

After detailed deliberations, the Authority decided to reject the project proposal as per SEAC recommendation with opinion that the Annual Rate of Replenishment Study (ARRS) report is not done as per guideline of MoEF & CC, Govt. of India. The PP is required to submit fresh ARRS report and apply afresh in Parivesh 2.0 Portal.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### PARIVESH I.O, AGENDA No.168.11

Proposal No.	SIA/OR/MIN/306296/2023
Date of application	07.11.2023
File no.	J-11015/47/2020 IA-II(M)
Project Type	Proposal for Amendment of EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for Proposed Limestone Mine (Khatkurbahal North Block, Area: 156.43 ha) with Limestone production capacity of 1.6 Million TPA at Village Khatkurbahal & Phalsakani, Tahsil: Kutra, Dist: Sundargarh, Odisha
Name of the company/Organization	M/s. Shiva Cement Ltd.
Location of Project	Limestone production capacity of 1.6 Million TPA at Village Khatkurbahal & Phalsakani, Tahsil: Kutra, Dist: Sundargarh, Odisha

#### Proposal in brief:

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

1. This proposal is for amendment Environmental Clearance of M/s. Shiva Cement Ltd for Limestone Mine (Khatkurbahal North Block, Area: 156.43 ha) with Limestone production capacity of 1.6 Million TPA at Village Khatkurbahal & Phalsakani, Tahsil: Kutra, Dist: Sundargarh of Sri Manoj Kumar Rustagi.
2. **Category:** The project falls under Category "B" Project or Activity 1(a) – "Mining of Minerals" as per MoEF&CC, Govt. of India Notification as the Mining Lease Area is less than 250 ha.
3. **Location :** The mine is situated near Villages- Khatkurbahal & Phalsakhani, Tehsil- Kutra, District Sundargarh, Odisha. The latitude is 22° 16'45.31025" N to 22° 17'10.12835" N and 84° 27'36.13496" E to 84° 29'18.22107" E. The mines fall in part of Survey of India topo sheet No. F45G7, F45G8, F45G11 & F45G12.
4. M/s. Shiva Cement Limited has an existing Cement Plant with clinker production capacity 3.0 million TPA & Cement 2.0 million TPA at Village Telighana, Tehsil- Kutra, District Sundargarh, Odisha.
5. Environment clearance has been obtained from MoEFCC vide File No J-11011/84/2008-IA.II (I) dated 23.03.2022. To meet the limestone requirement of cement plant, company has two mines:
  1. Khatkurbahal Limestone & Dolomite Mine (ML Area- 72.439 ha) with Production Capacity 1.5 million TPA Near village – Khatkurbahal & Kulerbahal, Tehsil – Kutra, District –Sundargarh (Odisha). Environment Clearance for the same has been obtained from SEIAA, Odisha vide letter No 37895/62-MINB1/11-2021 dated 11.03.2022.
  2. Khatkurbahal (North) Block Limestone Mine (ML Area- 156.43 ha) with limestone production capacity of 1.6 million TPA at Villages Khatkurbahal & Phalsakhani, Tehsil Kutra, District Sundargarh, Odisha. Environment clearance has been obtained from MoEFCC vide File No J-11015/47/2020-IA.II (I) dated 17.03.2022.
5. **Amendment justification :** Project Proposal is for amendment in Specific Condition No. ii of the existing Environment Clearance Letter No J-11015/47/2020-IA-II(M) dated 17.03.2022 in favor of Shiva Cement Limited for Khatkurbahal (North) Block Limestone Mine (M.L. Area- 156.43 ha) with limestone production capacity of 1.6 million TPA at Villages Khatkurbahal & Phalsakhani, Tehsil - Kutra, District Sundargarh.

Odisha was given permission for road transportation from mines to captive cement plant for 5 years. Amendment required is as below:

S/N	Reference of Approved EC	Description as per Approved EC	Amendment requested	Reason for amendment
1.	Specific Condition No ii.	The transportation of mineral should be carried out through the over land conveyor belt.	The transportation of mineral from mine to captive cement plant may be carried out through existing road for a period of 5 years from the start of mining operations and later through Overland belt Conveyor (OLBC).	Majority of the land required for installation of OLBC is tribal land and thus has to be acquired by the state govt. as per LARR Act, 2013. The land acquisition has already been undertaken by the state Govt. and the same is a time-consuming process. Complete land acquisition and handover to SCL along with installation and commissioning of conveyor is likely to take approx. 3 years.

7. Status of Land Acquisition and installation of conveyor belt and timeline for completion is given below:

S. No.	Activity	Status/tentative date of completion
1	Project approval by IPICOL	Completed
2	Recommendation to IDCO by IPICOL for land	Completed
3	Scrutiny by IDCO for land records	Completed
4	Recommendation by IDCO to 5 irrigation depts & geology dept. For noc& to obtain NOC	Completed
5	Administrative approval from industries dept to start the land acquisition process	Completed
6	Recommendation by IDCO to district administration to start the land acquisition process	Completed
7	District administration to start the land acquisition process as per the land acquisition act	Started
8	Posting of data in LARRMS	Completed
9	Scrutiny of the land records by District land acquisition dept and process for 4(i) notification	31-12-2023
10	Preparation of Draft SIA study report	31-03-2024
11	Public hearing based on draft SIA study report	30-06-2024
12	Finalization of SIA study report	30-07-2024
13	Constitution of expert GP and evaluation of SIA report by expert GP(u/s-7(2))	30-08-2024
14	Submission of expert GP Report to collector	30-09-2024

## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

15	Publication of Declaration U/s- 8(2) by R&DM dept.	20-10-2024
16	Preparation of documents and administrative cost for 11(1) notifications	30-10-2024
17	Publication of preliminary notification by collector U/s-11(1)	30-11-2024
18	Survey of structures, trees etc over the land to be acquired (U/s-12)	15-02-2025
19	Objection hearing u/s - 15 regarding SIA study/public purpose/suitability of the land	20-04-2025
20	Preparation of R&R plan (if any) by the administrator U/S-31. This will in parallel with U/s-12	20-07-2025
21	Estimation and deposit of LA cost, preparation of relevant documents for publication of declaration u/s-19	20-08-2025
22	Declaration by collector U/s-19(1)	20-10-2025
23	Conduction of yadast report for preparation of award for the land losers	20-12-2025
24	Objection hearing regarding legal heir or person interested (U/s-23)	31-01-2026
25	Passing of award U/s-30	05-03-2026
26	Disbursement of award (min 80% of compensation)	05-05-2026
27	Handing order possession after disbursement of 80% of compensation	05-07-2026
28	Consent to Establish	05-10-2026
29	Erection & commissioning of OLCB	30-04-2028
30	Consent to Operate	31-07-2028

8. **Environment Consultant:** The environment consultant **M/s J.M. Enviro Net Pvt. Ltd., Gurugram** along with the proponent made a presentation on the proposal before the Committee.
9. The SEAC in its meeting held on dated **21-11-2023** decided to take decision on the proposal after receipt of the following information 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
	Compliance report to the Previous EC conditions regarding the road.	Certified compliance report in respect of the previous EC conditions issued by IRO, MoEF & CC Bhubaneswar is enclosed as <b>Annexure – I</b> . The site inspection was carried out on 01-03-2024 by Shri Sandeep Nandi, Scientist 'B'.	Copy submitted
	Traffic study report vetted by reputed institute and details of traffic load due to the proposed transport activity of the project.	Traffic Study Report along with the details of traffic load due to the proposed transport activity of the project vetted by Prof. Pravat Ku. Parhi, Odisha University Of	Copy submitted



# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

		<p>Technology and Research, Bhubaneswar (Formerly CIFT Bhubaneswar) is enclosed as <b>Annexure - II.</b></p> <p>The recommendations of the report are as follows: Impact due to transport of Limestone from mine to cement plant has been assessed through traffic study and air quality modelling for impact assessment for incremental ground level concentration of air pollutants. The report is examined and found that, the traffic study and air modeling study satisfy the existing road network to accommodate the additional traffic load as per IRC guidelines. Hence it is recommended for establishment of Limestone mine and extraction".</p>	
	Height of the conveyor belt may be considered after consultation with forest department.	<p>Shiva Cement Limited has consulted with the DFO, Sundargarh Division regarding height of the proposed conveyor and accordingly considered minimum height of 6 Meter above ground level. Copy of the letter no 1041/4F(Misc) Dt.08.02.2024 obtained from the office of the Divisional Forest Officer, Sundargarh Forest Division is enclosed as <b>Annexure-III.</b></p>	Height of the conveyor belt is 6 meters as suggested by DFO, Sundargarh.
	NOC/Permission from local authority regarding usage of approach road.	NOC pertaining to usage of approach road obtained from the office of the Superintending Engineer, Sundargarh (R&B) Division bearing letter no.1935 Dated 20/03/2023 is enclosed as <b>Annexure-IV.</b>	Copy submitted
	Present status of land acquisition and reason for delaying land acquisition.	<b><u>Reason for delay in land acquisition and subsequent installation of OLBC:</u></b>	-



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	<p>Majority of the land required for installation of OLBC is tribal land and thus has to be acquired by the state Govt. as per LARR Act, 2013.</p> <p>The land acquisition process was started since 2021 through the state Govt. Delay in land acquisition is attributable to the following factors:</p> <ul style="list-style-type: none"> <li>➤ Procedural delay in getting NOCs required by IDCO from 5 depts viz. Irrigation Deptt, Mega Irrigation deptt, Minor Irrigation deptt, Lift Irrigation Deptt and Deptt of Geology.</li> <li>➤ Procedural delay in administrative approval from state Govt. for land acquisition</li> <li>➤ Scrutiny of land records by IDCO and later by District Land Acquisition deptt.</li> </ul> <p>Complete land acquisition and its handover to SCL along with installation and commissioning of conveyor is likely to take 51 approx..4 years from now.</p> <p>Status of land acquisition and tentative timeline for various activities involved in the project is enclosed as <b>Annexure-V</b>.</p>	
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Considering the information furnished and the presentation made by the consultant, **M/s J.M. Enviro Net Pvt. Ltd., Gurugram** along with the project proponent,

**2. Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29.04.2024 and the SEAC recommended following:

Specific Condition No. ii of the existing Environment Clearance Letter No J-11015/47/2020-IA-II(M) dated 17.03.2022 in favor of Shiva Cement Limited for Khatkurbahal (North) Block Limestone Mine (M.I. Area-156.43 ha) may be replaced as follows:

- (i) The transportation of mineral from mine to captive cement plant may be carried out through existing road for a period of 5 years from the start of mining operations and later through Overland belt Conveyor (OLBC).
- (ii) No more road transportation is allowed after the mentioned date without permission of the SEIAA, Odisha.
- (iii) From 5th year onwards, the ore should be transported only through Overland belt Conveyor (OLBC) as per the guidelines of CSIR-NEERI's recommendation.
- (iv) The PP shall inform SEIAA, Odisha for any deviation in the proposed mode of transport of minerals in case the timeline is not complied with.

**Decision of Authority: Approved**

After detailed deliberations in the matter, the Authority agreed with the recommendation of SEAC and allowed to Amendment of EC specific condition No. ii of existing EC Letter No J-11015/47/2020-1A-II(M) dated 17.03/2022 in favor of Shiva Cement Limited for Khaskurbahal (North) Block Limestone Mine (M.L. Area- 758.43 ha) with following conditions:

- i) The transportation of mineral from mine to captive cement plant may be carried out through existing road for a period of 5 years from the start of mining operations and later through Overland belt Conveyor (OLBC).
- ii) No more road transportation is allowed after the mentioned date without permission of the SEIAA, Odisha.
- iii) From 5th year onwards, the ore should be transported only through Overland belt Conveyor (OLBC) as per the guidelines of CSIR-NEERI's recommendation.
- iv) The PP shall inform SEIAA, Odisha for any deviation in the proposed mode of transport of minerals in case the timeline is not complied with.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### PARIVESH 1.0, AGENDA No.168.12

Proposal No.	SIA/OR/INFRA2/451009/2023
Date of application	10.11.2023
File no.	451009/15-INFRA2/11-2023
Project Type	Proposal for ToR
Category	B1
Project/Activity including Schedule No.	7(da) Bio-Medical Waste Treatment Facilities
Name of the Project	ToR Proposal of M/s. Renewable Envirogic Private Limited for Common Biomedical Waste Treatment Facility (CBWTF) over an area 1.520 acres located at: IDCO Plot No. 8, in industrial Estate Choudwar, Dist- Cuttack of Sri Debasis Tripathy
Name of the company/Organization	Renewable Envirogic Private Limited
Location of Project	IDCO Plot No. 8, in industrial Estate Choudwar, Dist- Cuttack
ToR date	Yet to issued
Name of Consultant	M/s. Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar

#### Proposal in brief:

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

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference of M/s. Renewable Envirogic Private Limited for Common Biomedical Waste Treatment Facility (CBWTF) over an area 1.520 acres located At: IDCO Plot No. 8, in Industrial Estate Choudwar, Dist- Cuttack of Sri Debasis Tripathy.
3. **Category:** This project falls under Category "B" of Project activity 7 (da)- Development of Common Bio Medical Waste Treatment Facility projects as per EIA Notification dated 14<sup>th</sup> Sept, 2006 as its amendments.
4. **Location and connectivity:** The proposed project is located at Plot No. 08, Chawduar, Dist-Cuttack, State- Odisha. The geographical co-ordinates of project site are 20.541306°N and 85.870400°E. It falls under Topo sheet no.: F44T14 & F44T15. The nearest habitation is Village-Bunipadai-0.50 KM-NE, Village-Gopalpur-1.5km-SE, Village-Susunga-2.58Km-NW. The nearest highway is NH- 55 is about 2km in south direction. The nearest Railway Station is Charbatia Railway station is about 5.14 km in NE direction. The nearest Airport is BijuPatnalk Airport, Bhubaneswar is about 32 km in SE direction. The nearest water bodies are Mahanadi River -3.77 km (S), Chattisha lake-(>200 m) (SW), SingliJhor (1.16 Km (SW). The nearest reserve forests are Charbatia RF- 3.40 km (NE), Baula RF-4.85 km (SW), Sunimuhan RF-6.75 km (SW).
5. There are no National Park/Wildlife Sanctuary/ Eco-sensitive zone located within 10 km radius of the Project Site.
6. **Baseline study conducted:** Baseline study is being conducted from Oct-2023 to Dec 2023 Locations within 10 Km study area according to the CPCB guidelines in Core zone and Buffer zone area.
7. **Water requirement:** Total Water requirement for the proposed CBWTF project is 15 KLD and daily fresh water requirement is 7.5 KLD for Domestic and Processing including Vehicle washing and Plantation purposes. The water requirement will be met through bore wells.

Sr. No.	Details	Consumption (KLD)
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	Process requirement (Incineration, Cleaning of storage area, Autoclave, Shredder)	7.5
(ii)	Domestic Requirement	2.0
(iii)	Plantation and Greenbelt, Vehicle Washing & Floor washing	5
	<b>Total</b>	<b>14.5</b>

8. **Wastewater details:** Waste water generated from the treatment of biomedical waste during incineration, autoclaving, washing of floors, vehicle wash platform, etc. will be treated in the Effluent Treatment Plant (capacity 10 KLD). The treated water would be recycled in the plant to reduce the amount of water used.
9. **Power requirement:** Total power requirement for the proposed project would be 100 KW at 11 KV lines which will be sourced from State Electricity Board. Additionally, 1 no. of DG set of 125.0 KVA is proposed for the project.
10. **Rainwater harvesting details:** A rainwater harvesting system will be also be set up at the plant to ensure better water management.
11. **Solid waste generation:**

Type of Waste Generated	Quantity
Ash	100 - 150 kg/day
Other Residues	10 - 20 kg/day

12. **Mitigation of solid waste produced:** ash from incinerator and other residue materials generated from the process are collected in bags, temporarily stored in storage shed and finally disposed in secured landfill.
13. **Greenbelt development:** Green belt will be developed over 33 % of the total land will be the greenbelt area i.e. 0.503 acres.
14. **Total Employment:** During the operational phase 30 persons (Direct + Indirect) & during construction phase local people will be hired.
15. **Project cost:** The estimated project cost is ₹400 Lakh i.e. ₹ 4 Crore.
16. **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.
17. The SEAC in its meeting held on dated 01-12-2023 decided to take the decision on the proposal after receipt of the following from the proponent:

- A. **The proponent may be asked to submit the following for further processing of EC application:**
  - i) The proposed site is located within 75 K.M. from another existing CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed write up in this regard shall be submitted.
  - ii) Land documents and kisan of land.
- B. **If decided to issue ToRs, following specific ToRs may be prescribed while issue of Terms of References.**
  - i) Permission from Aviation Research Centre, Charbaria, Cuttack for stack height and all other statutory clearances shall be obtained.
  - ii) Detailed write up on the handling of bio medical waste (segregation, process followed and disposal of waste).
  - iii) Submit a detailed layout of the proposed project showing all process, materials storage, and handling units.

- iv) Precautionary measures to be undertaken to prevent contamination of soil and water from the raw material storage area due to leaching.
- v) Brief write up on surface run off management with drainage map.
- vi) Submit the water balance break-up and where the cooling water is to be used.
- vii) Submit the coverage area details as it is Notified Industrial Area.
- viii) SOP for Biomedical waste management for workers involved in segregation and waste handling.
- ix) Regarding disposal of the incinerator ash submit supporting documents like MoU with private agencies.
- x) The ETP should have provision to take care of wastewater being contaminated with biomedical wastes.
18. 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
i.	The proposed site is located within 75 K.M. from another existing CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed writeup in this regard shall be submitted.	<ul style="list-style-type: none"> <li>Since it is mandated by CPCB that all biomedical waste generated from HCF is to be disposed as per CPCB Guidelines 2016. As per available data there are 6000 beds in government health care facilities in these districts (i.e. Kendrapara, Dhenkanal, Angul, Kendujhar). The present waste generated from such Government HCFs is not being treated and disposed as per CPCB rules and guidelines as no CBWTF is catering to these HCFs.</li> <li>Considering the WHO standard of 3.5 beds per 1000 population, all districts are short of the required number of beds for patients (i.e. 88% bed gap). After 5 to 6 years the number of beds will increase by 2 to 3 times i.e. 30,000 beds will be provided in and around the 75 km buffer area. With the above background and keeping in mind the current demand and potential requirement for the next 2-5 years, we intend to set up 1 CBWTF at IDCO, Chaudar to meet the new bio-medical waste management requirements having capacity 5000 kg/day. The 75 km radius of the proposed project includes the districts of Dhenkanal, Angul, Jajpur, Bhadrak, Nayagarh, Khorda, Keonjhar, Kendrapara, Jagatsinghpur and Puri.</li> <li>At present there is one CBWTF run and operated by M/s Sani clean Pvt Ltd with its plant set up at Tangla Pada, Khurda without having Environment Clearance (plant was set up before 2006 notification). Only CTO was received having capacity-3600 KG/Day. Which is not sufficient to cater the Biomedical waste generate from 75 km buffer area. Since there is huge presence of private sector HCFs at Khurda and Cuttack districts, this CBWTF is unable to cater to all the HCFs which are located at Cuttack, Khurda and another adjacent district. As per the CPCB guidelines one CBWTF can only manage wastes of 10,000 beds and not more than that, so new CBWTF is required in this scenario, proposed CBWTF is capacity to handel 5 ton /day and it will expandable in future, it was found that there are so many</li> </ul>



		<p>leftover HCFs and they are not able to treat and manage their wastes despite willingness and good intention.</p> <ul style="list-style-type: none"> <li>• This proposed CBWTF will be located at Chowdar, as it is very strategically placed and very nearer to 3-4 districts of Odisha which can easily cater to the needs of the catchment area. Moreover, it will address the current gap &amp; absorb all feature load of HCFS For this we have already acquired land of 1.6 Acres and we are ready to bear all part of the capital investments that are required as per CPCB guidelines and Rules.</li> <li>• Another proposal was submitted having proposal no: SIA/OR/INFRA2/456045/2023 on dated 08.01.2024 which comes 35 km distance from our project site (after submission of our proposal).</li> <li>• Distance of all CBWTF of Odisha is attached As <b>Annexure-I</b>.</li> </ul>
ii.	Land documents and kisam of land	Required documents are attached as <b>Annexure -2</b>

**2. Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29.04.2024 and the after detailed discussion, the SEAC recommended to return the proposal to SEIAA, Odisha with a request to seek clarification from CPCB, Delhi whether EC can be granted to this CBWTF as per clarification given by the project proponent indicating that there is requirement of another CBWTF looking to the demand of the present scenario.

**Decision of Authority: Deferred**

After detailed deliberations in the matter, the Authority decided to discuss the issue with State Health Department before taking any decision in the matter.

Member Secretary, SEIAA

**APPROVED BY**

Member, SEIAA

Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### PARIVESH I.O, AGENDA No.168.13

Proposal No.	SIA/OR/INFRA2/452677/2023
Date of application	21.11.2023
File no.	452677/16-INFRA2/11-2023
Project Type	Proposal for ToR
Category	B1
Project/Activity including Schedule No.	7(da) Bio-Medical Waste Treatment Facilities
Name of the Project	ToR Proposal of M/s Renewable Envirogic Private Limited of Common Biomedical Waste Treatment Facility (CBWTF) At: Khata No.18, Plot No. 134, Mouza- Padmapur, Tahasil - Koraput, District - Koraput of Sri Debasis Tripathy
Name of the company/Organization	Sri Debasis Tripathy
Location of Project	IDCO Plot No. 8, in industrial Estate Choudwar, Dist- Cuttack
ToR date	Yet to issued
Name of Consultant	M/s.Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar

#### **Proposal in brief:**

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

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference for environmental clearance for M/s Renewable Envirogic Private Limited of Common Biomedical Waste Treatment Facility (CBWTF) At: Khata No.18, Plot No. 134, Mouza- Padmapur, Tahasil - Koraput, District - Koraput of Sri Debasis Tripathy.
3. **Category:** The proposed project of setting up of Common Biomedical Waste Treatment Facility (CBWTF) falls under Category B, schedule 7(da) as per the EIA notification, 2006 and after the subsequent amendments made in 2009 and 2015.
4. **Location and connectivity:** The proposed site is located in plot area of 1.44 Acres, Khata No.18, Plot No. 134, Mouza- Padmapur, Tahasil - Koraput, District - Koraput, State Odisha. The project is a part of the Survey of India Toposheet No. F44T14 & F44T15. The geo-coordinates of the project is - Latitude 18° 47' 29.2164" N and Longitude 82° 47' 59.658" E. Nearest railway station is Koraput Junction- 8.3 km (sw); Nearest National highway is NH- 43 is about 1.4 km in S direction; Nearest airport is Jeypore airstrip - 28 km, Nearest habitation are Village-Padampur-0.63 KM-S and Koraput Town-9.4 km (NW). Nearest Rivers / streams/ Water Bodies are Kolab Reserver-4.25 km(S) and Mukhmajorhi Nalla-4.7 km(NE). Nearest forests are Anigurha Reserve forest-2.3 km(NNW) and Naranga RF-4.7(NNE)
5. **Baseline study period:** Baseline monitoring period is from Oct-2023 to Dec 2023.
6. **Proposed Plant Capacity –**  
 Incinerator: 250 Kg/ hr - 1 number+ 1 (For Future)  
 Autoclave: 300 kg/batch  
 Shredder: 300 kg/hr  
 Effluent Treatment Plant (ETP): 10 KLD  
 Total estimated waste 5 TPD generated from about 10,000 beds @ 300-500 gm/bed.



Proposed CBMW TFCapacity-5 TPD

Incinerable waste = 40-50% of total waste = 2.0-2.5 TPD

Operating hours = 8 to 10 hrs/day

**Treatment Technology:**

EQUIPMENT	PURPOSE	Capacity	Number(s)
Incinerator With APCD & continuous Emission Monitoring Instrument	The primary purpose of incineration is to burn the waste to ashes through a combustion process. The purpose of primary chamber of the incinerator would be combustion of the waste materials into safe end products (ash). The purpose of the secondary chamber would be to burn off gases and ensure safe end products (gaseous).	250 kg/hr	2
Autoclave	The proposed autoclave is a high pressure high vacuum steam sterilizer. This technique uses mechanical air removal with the help of vacuum pump and offers several advantages over standard sterilization cycle such as: Nearly 100% air removal from sterilization chamber. Vacuum drying at the end of sterilization hold period ensures drying of the material which has been sterilized.	300 kg/hr	1
Shredder	Shredder will be installed by the side of Autoclave for immediate shredding of sterilized materials to complete the cycle of operation of disinfection and segregation for reuse/recycle.	300 kg/hr	1
Effluent Treatment Plant	The Effluent Treatment Plant will be an integral part of the plant as it will treat the waste water generated from the treatment of biomedical waste during incineration, autoclaving, washing of floors, vehicle wash platform, etc.	10 KLD	1
Transportation Vehicle	GPS enabled closed container Vehicles will be employed for transporting waste from common collection point to the facility.	Model : TATA Ace Gold	3

## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

8. **Water requirement:** Total water requirement for the CBWTF project is 18.5 KLD which will be sourced from bore wells & water tankers. The daily fresh water requirement would be 12.5 KLD and recycled water would be 6 KLD. A rainwater harvesting system will be also be set up at the plant to ensure better water management.

Sr. No.	Details	Consumption (KLD)
1	Process requirement (Incineration, Cleaning of storage area, Autoclave, Shredder)	7.5
2	Domestic Requirement	1.5
3	Reuse( in Venturi Scrubber, Incineration process)	6.0
4	Greenbelt	1.5
5	Vehicle Wash	2
	<b>Total</b>	<b>18.5</b>

9. **Wastewater management:** Wastewater generated from the treatment of biomedical waste during incineration, autoclaving, washing of floors, vehicle wash platform, etc. will be treated in the Effluent Treatment Plant (capacity 10 KLD). The treated water would be recycled in the plant to reduce the amount of water used.

10. **Solid Waste generation:** Ash - 100 - 150 kg/day and Other Residues - 10 - 20 kg/day

11. **Power requirement:** DG set of 125.0 KVA is proposed for the project and 100 KW at 11 KV lines will be taken from State Electricity Board.

12. **Manpower:** Total about 30 persons are proposed to be hired for plant operations including officers, skilled and unskilled workers.

Sl. NO.	JOB PROFILE	NO. OF PERSONS
1.	Project/ Plant Manager	1
2.	Chief Operator of Equipment	2
3.	Assistant Operators	5
4.	Office Staff including marketing people	6
5.	Drivers	3
6.	Helpers with the Vehicles	3
7.	Workers on the Floor at the Facility	6
8.	Security Personnel	4
	<b>Total</b>	<b>30</b>

13. **Project cost:** The Estimated cost of the project is approx. 178.2 Lakhs.

14. **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.

15. The SEAC in its meeting held on dated 27-12-2023 recommended the following.

- A. The proponent may be asked to submit the following before consideration of ToRs:

- The proposed site is located within 75 K.M. from another proposed CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed write up in this regard shall be submitted.
- Land documents and kisan of land.

**B. Following specific ToRs to be issued if decided to issue ToRs:**

- i) Permission from the panchayat and ROW documents for connecting 240meters of land from project site to nearest approach road through the nearby village area.
- ii) Submit details of amount of waste to be generated from the hospitals on the per day basis rather than calculating on number of beds.
- iii) Submit aerial distance certificate from the nearby biomedical waste treatment facilities.
- iv) Precautionary measures to be undertaken to avoid contamination of wastes or due to surface runoff from project site to the nearby water reservoir.
- v) Submit a Standard Operating Protocol starting from collection point of waste generation/raw material, segregation, transportation, treatment and disposal of waste generated from plant.
- vi) The baseline monitoring should also include biological parameters and baseline study should also cover the monsoon period.
- vii) The storage sheds provided for the biomedical waste should be covered.
- viii) Provide a buffer zone of 5km around the proposed site.
- ix) Submit a write up on the amount of segregated waste to be handled at the project site monthly and annually.
- x) Avoid using transport route passing through the village.
- xi) SOP/measures to be followed for safety and health issues (due to handling of hazardous waste materials) of employees and local people of nearby villages.
- xii) Area details to be cover for collection of waste materials/raw materials.
- xiii) Agreement papers or MoU with dealers for disposal of waste generated and its management.
- xiv) Category wise list of wastes to be handled.

16. The proponent has furnished the compliance and the SEAC verified the same as follows;

S L N o	Information Sought by SEAC	Compliance furnished by the proponent
1)	The proposed site is located within 75 K.M. from another proposed CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed write up in this regard shall be submitted.	<ul style="list-style-type: none"> <li>Since it is mandated by CPCB that all biomedical waste generated from HCF is to be disposed as per CPCB Guidelines 2016. As per available data there are 6000 beds in government health care facilities in these districts (i.e. Kendrapara, Dhenkanal, Angul, Kendujhar). The present waste generated from such Government HCFs is not being treated and disposed as per CPCB rules and guidelines as no CBWTF is catering to these HCFs.</li> <li>Considering the WHO standard of 3.5 beds per 1000 population, all districts are short of the required number of beds for patients (i.e. 88% bed gap). After 5 to 6 years the number of beds will increase by 2 to 3 times ie 30,000 beds will be provided in and around the 75 km buffer area. With the above background and keeping in mind the current demand and potential requirement for the next 2-5 years, we intend to set up 1 CBWTF at IDCO, Chaudar to meet the new bio-medical waste</li> </ul>



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

		<p>management requirements having capacity 5000 kg/day. The 75 km radius of the proposed project includes the districts of Dhenkanal, Angul, Jajpur, Bhadrak, Nayagarh, Khorda Keonjhar, Kendrapara, Jagatsinghpur and Puri</p> <ul style="list-style-type: none"> <li>At present there is one CBWTF run and operated by M/s Saniclean Pvt Ltd with its plant set up at Tangia Pada, Khurda without having Environment Clearance (plant was set up before 2006 notification). Only CTO was received having capacity-3600 KG/Day. Which is not sufficient to cater the Biomedical waste generate from 75 km buffer area. Since there is huge presence of private sector HCFs at Khurda and Cuttack districts, this CBWTF is unable to cater to all the HCFs which are located at Cuttack, Khurda and another adjacent district. As per the CPCB guidelines one CBWTF can only manage wastes of 10,000 beds and not more than that. so new CBWTF is required in this scenario, proposed CBWTF is capacity to handel 5 tan /day and it will expandable in future, it was found that there are so many leftover HCFs and they are not able to treat and manage their wastes despite willingness and good intention.</li> <li>This proposed CBWTF will be located at Chowdar, as it is very strategically placed and very nearer to 3-4 districts of Odisha which can easily cater to the needs of the catchment area. Moreover, it will address the current gap &amp; absorb all feature load of HCFs For this we have already acquired land of 1.6 Acres and we are ready to bear all part of the capital investments that are required as per CPCB guidelines and Rules.</li> <li>Another proposal was submitted having proposal no. SIA/OR/INFRA2/456045/2023 on dated 08.01.2024 which comes 35 km distance from our project site (after submission of our proposal).</li> <li>Distance of all CBWTF of Odisha is attached As <b>Annexure-1</b>.</li> </ul>
ii)	Land documents and kisam of land.	Required documents are attached as <b>Annexure. -2</b>
<p>3. <b>Whether SEAC recommended the proposal</b> – The proposal was placed in the SEAC meeting held on 29.04.2024 and the after detailed discussion, the SEAC recommended to return the proposal to SEIAA, Odisha with a request to seek clarification from CPCB, Delhi whether EC can be granted to this CBWTF as per clarification given by the project proponent indicating that there is requirement of another CBWTF looking to the demand of the present scenario.</p>		



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### Decision of Authority: Deferred

After detailed deliberations in the matter, the Authority decided to discuss the issue with State Health Department before taking any decision in the matter.

### APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

PARIVESH 1.0, AGENDA No.168.14	
Proposal No.	SLA/OR/MIS/306213/2023
Date of application	06.11.2023
File no.	SLA/OR/MIS/230678/2021
Project Type	Proposal for Amendment of EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction Projects
Name of the Project	Proposal for Amendment of EC of M/s United Construction Corporation for Proposed Amendment in Residential Project over a built-up area 24,689.58 sqm at Mouza-Badaraghunathpur, Tehsil-Jatani, District Khurda, Bhubaneswar of Sri Tapan Kumar Mohanty
Name of the company/Organization	M/S UNITED CONSTRUCTION CORPORATION
Location of Project	Mouza-Badaraghunathpur, Tehsil- Jatani, District Khurda, Bhubaneswar
ToR date	N/A
Name of Consultant	M/s Grass Roots Research & Creation India (P) Ltd., 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 SEAC/SEIAA, are given as under.

1. This proposal is for Amendment Environmental Clearance of M/s. United Construction Corporation for proposes Amendment in residential project over an built-up area 24,689.58 m<sup>2</sup> at Mouza- Badaraghunathpur, Tehsil- Jatani, District Khurda, Bhubaneswar of Sri Tapan Kumar Mohanty.
2. **Category:** This project falls under Category "B", Project or Activity 8(a) Building and Construction projects as per EIA Notification dated 14th Sept, 2006 as its amendments.
3. The project was **earlier granted Environmental Clearance** by SEIAA Odisha vide EC Identification No.: EC22B038OR134759, SEIAA File No.: 230678/50-MIS/09-2021 dated **06/05/2022**.
4. The earlier sanctioned **Built-up area** as per the above-said EC letter was **24,601.44 m<sup>2</sup>** which has now changed to **24,689.58 m<sup>2</sup>**. The total plot area remains the same i.e. 9,124.19 sqm.
5. **Location and connectivity:** The Project site is located at Khata Nos. 270/3122, 270/3123, 400/3933, 400/3934 of Mouza- Badaraghunathpur, Tehsil- Jatani, District Khurda, Bhubaneswar, Odisha. The geo coordinates of the project is Latitude: 20°13'46.47"N and Longitude: 85°43'43.95"E. The Nearest Highway is NH-16 which is 2.4 km (SE) away from project site, SH-13 is at 7.5 km (SSW) away from project site, NH-57 which is 10 km (SSW) away from project site, NH-316 which is 13.0 (E) away from project site. The nearest Railway Station is Retang Railway Station, 4.7 km (SE) away from the project site. The nearest Airport BijuPataik International Airport, Bhubaneswar is at 8.7km (ENE) from the project site.
6. Total Plot area measures 9,124.19m<sup>2</sup> and the proposed built-up area is 24,689.58 m<sup>2</sup>.
7. There will be a residential tower of 132 dwelling units with common amenity area. The maximum height of the Tower 17.60 m.

### **Area Statement:**



# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

S. No.	PARTICULARS	AREA (sq.m.)
i)	Total plot area	9,124.19
ii)	Permissible Ground coverage (@50% of plot area)	4,562.095
iii)	Proposed Ground coverage (@47.57% of the plot area)	4,340.377
iv)	Permissible FAR (@3.0 of the Net plot area)	27,372.57
v)	Proposed FAR (@ 2.08 of Net plot area)	19,019.39
vi)	Non-FAR area	5,670.19
vii)	<b>Total Built-up Area</b>	<b>24,689.58</b>

8. The total population of project after proposed will be 888 persons.

## 9. Comparative statement of amendment:

S.N O.	PARTICULARS	EXISTING AS PER EARLIER REC	PROPOSED AMENDMENT	TOTAL AFTER PROPOSED AMENDMENT
1	Total Plot Area (m <sup>2</sup> )	9,124.19 (2.25 Acres)	--	9,124.19 (2.25 Acres)
2	Proposed Ground Coverage (m <sup>2</sup> )	5,260.073 (57.33% of plot area)	1,080.304	4,340.377 (47.57% of plot area)
3	Proposed FAR (m <sup>2</sup> )	19,502.70 (@2.14 of plot area)	-483.31	19,019.39 (@2.08 of plot area)
	a) Residential FAR (m <sup>2</sup> )	15,105.38	-265.03	14,840.35
	b) Common area FAR (m <sup>2</sup> )	4,397.32	-218.28	4,179.04
4	Non FAR area (m <sup>2</sup> )	5,098.74	571.45	5,670.19
	a) Mumty+ Service area (m <sup>2</sup> )	714.21	615.51	1,329.72
	b) Stilt area (m <sup>2</sup> )	4,384.53	-44.06	4,340.47
5	<b>Built-up Area (m<sup>2</sup>)</b>	<b>24,601.44</b>	<b>88.14</b>	<b>24,689.58</b>
6	Landscape Area (m <sup>2</sup> )	3,021.93 (33.12% of plot area)	-228.64	2,793.29 (30.61% of plot area)
7	Maximum Height of the Building (m)	14.95	2.65	17.60
8	No. of Dwelling unit	186	-54	132
9	Project Cost	INR 57.942 Crore	INR 3.775 Crore	INR 61.717 Crore



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

S.No.	Particulars	Existing As Per Earlier EC	Proposed Amendment	Total After Proposed Amendment
10	Population (Nos.)	1070	-182	888
11	Total water demand (KLD)	141	-21	120
12	Domestic Water Demand (KLD)	129	-21	108
13	Fresh water (KLD)	85	-14	71
14	Flushing water (KLD)	44	-7	37
15	Waste water (KLD)	112	-18	94
16	STP Capacity (KLD)	135	-5	130
17	Rainwater Harvesting Pits (Nos.)	11	13	24
18	Parking	228ECS	-72ECS	154ECS
19	Parking Area	6275m <sup>2</sup>	-1,338.86m <sup>2</sup>	4,936.14m <sup>2</sup>
20	Power Requirement	760kVA	356kVA	1116kVA
21	DG Sets	1x225kVA	-45kVA	1x180kVA
22	Solid waste generation (kg/day)	503	-83	420

10. **Water requirement:** The total water requirement will be met through Ground water and Bore well which is approx. 120 KLD, total domestic water requirement is 108 KLD. Out of which fresh water requirement is approx. 71 KLD, & flushing water will 37 KLD.

S.No.	Description	Occupancy	Rate of water demand (lpcd)		Total Water Requirement (KLD)		
A	Domestic Water		Fresh	Flushing	Fresh	Flushing	Total
	Residents	772	90	45	69.48	34.74	104.22
	Staff	39	25	20	0.97	0.78	1.75
	Visitors	77	5	10	0.38	0.77	1.15
					71KLD	37KLD	108KLD
Total Domestic Water =108KLD							
B.	Horticulture	2,793.29m <sup>2</sup>	4l/sqm		11.17KLDsay12KLD		
Grand Total(A+B) =120KLD							

**Wastewater details:** The project will generate approx. 94 KLD of wastewater. The wastewater will be treated in an onsite STP of 130 KLD capacity. The treated effluent will be reused for flushing & horticulture. Surplus treated water of 36KLD in Summer season and 46KLD in Monsoon season will be discharged to external sewer.

<b>Domestic Water Requirement</b>	<b>108KLD</b>
• Fresh	71KLD
• Flushing	37KLD
<b>Wastewater [ @ 80% (fresh + 100% flushing) ]</b>	<b>57-37 = 94KLD</b>
<b>STP Capacity</b>	<b>130KL</b>

S.No	Description	Value as per earlier EC (KLD)	Proposed Amendment (KLD)	Total Quantity (EC accorded + Amendment) (KLD)
1.	Total water demand	141	-21	120
2.	Domestic Water Demand	129	-21	108
3.	Freshwater	85	-14	71
4.	Flushing water	44	-7	37
5.	Wastewater	112	-18	94
6.	STP Capacity	135	-5	130

**12. Rainwater harvesting details:** Total 24 nos. of Rainwater harvesting pits will be provided for storage of rain water.

**13. Parking details:** Total parking proposed is 145(Stilt) + 9(Surface) = 154 ECS. As per Bhubaneswar development authority bye-laws: Total required parking (25% of Proposed F.A.R) comes to be 4,754.85 m<sup>2</sup> which includes 4,279.35 m<sup>2</sup> for residents and 475.49 m<sup>2</sup> for visitors (10% of Total Parking area). Total Parking area proposed – 4936.14 m<sup>2</sup>.

**Power Requirement:** The requirement load for the project will be 1,116 kVA. The power supply will be supplied by State Electricity Board. There is provision of 1 nos. of DG sets total 180 kVA capacity for power back up. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height (30m) for proper dispersion. Total solar power as per the following table.

S.No	DESCRIPTION	SAVINGS (kVA)
1.	Solar based Lighting will be done in the common areas, stair cases, land scape areas, signage, entry gates and boundary walls etc. (5% from total power load) Norms for Rooftop PV systems Installation: Solar power back of a minimum generation capacity of 5% of the connected load (OR) 20 Watts/sq.ft on available roof space, whichever is less.	35kVA
2.	LEDs will be used in all dwelling units.	15.8kVA
3.	Outdoor and common area lighting shall be LED	5kVA
<b>Total Energy Saved</b>		<b>55.8 kVA</b>



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

**Total Power load=1,116kVA**

**Energy saved through various provisions =55.8 kVA**

**TOTALENERGYSAVING = 10%**

### Comparative Power Requirement (EC accorded + Amendment)

	EC accorded	Expansion	Total (EC accorded + Amendment)
<b>Power Requirement</b>	760kVA	+356kVA	1,116kVA
<b>D.G sets</b>	1x225kVA	-45kVA	1x180kVA

14. **Solid waste generation:** The total solid waste generation will be 420 kg/day for the proposed project. Approx. of solid waste would be generated 420 kg per day (@ 0.25 kg per capita per day for staff, @0.15 kg per capita per day for the visitor, 0.5 kg capita per day resident and landscape waste @0.2 kg/acre/day and STP Sludge). The solid waste will be collected and then segregated at source. Adequate number of colored bins (green, blue & dark grey) separate for bio-degradable and non-biodegradable are proposed to be provided at the strategic locations within the site. STP sludge is proposed to be used for horticultural purpose as manure. Horticultural Waste/ Biodegradable waste will be composted by Organic Waste Converter. 50 sqm area has been proposed for OWC. Spent oil from DG sets will be sold to CPCB authorised recyclers.

S.No	Category	Norms (Kg/capita/day)	Waste generated (kg/day)
1.	Residents (772)	@0.5	386
2.	Staff (39)	@0.25	9.75
3.	Visitors (77)	@0.15	11.55
4.	Landscape waste (0.69acre)	@0.2kg/acre/day	0.138
5.	STP sludge	Waste water x 0.35x B.O.D difference/1000	12.83
<b>TOTALSOLIDWASTE</b>			<b>420kg/day</b>

### Comparative Solid Waste Details

Solid Waste Generation	EC accorded (kg/day)	Proposed Amendment (kg/day)	Total (EC accorded+ Amendment) (kg/day)
	503	-83	420

15. **Greenbelt:** Total green area measures 2,793.29 m<sup>2</sup> i.e. 30.61% of the net plot area. No. of trees required = 1 tree/80 sqm of plot area = 9,124.19/80 = 114 nos. Total no. of trees proposed = 150 trees.
16. **Project cost:** Total estimated cost of the proposed project is Rs.61.717 Cr. including land and development cost.

### ENVIRONMENT MANAGEMENT PLAN COST (OPERATION)

COMPONENT	CAPITALC OST (INRLAKH)	RECURRINGC OST (INRLAKH/Y R)
-----------	------------------------------	---------------------------------------

Sewage Treatment Plant	15	8
Rain Water Harvesting Pits	10	0.50
Solid Waste Management	2.5	1
Environmental Monitoring	0	10
Green Area/Landscape Area	2.5	0.50
Others (Energy saving devices, miscellaneous)	10	0.15
<b>Total</b>	<b>40</b>	<b>20.15</b>

17. **Environment Consultant:** The Environment consultant M/s. **Grass Roots Research & Creation India (P) Ltd., Noida** along with the proponent made a presentation on the proposal before the Committee.

18. The SEAC in its meeting held on **21-11-2023** recommended the following:

A. **The proponent may be asked to submit the following for further processing of EC application:**

- Detailed justification w.r.t. to all environment parameters for increase in built-up area and non-FAR area.
- Comparative table for previous EC conditions and present revised proposal w.r.t. all the changeable parameters. Additionally, incorporate remarks column to specify the reason for change.
- Submit write-up regarding increase in power requirement.
- Submit the permission/application copy for discharge of excess treated water to the drainage.
- Submit the EMP plan along with capital and recurring cost.
- The proponent shall clarify whether the recurring cost shall be borne by the developer or the management of society.

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

- Environmental settings of the project site.
- Verify if the site is a flood prone area.
- Construction activity if any started at the site and extent of construction activity.
- 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.

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	Views of SEAC
1.	Detailed justification w.r.t. to all environment parameters for increase in built-up area and non-FAR area.	Comparative table w.r.t. all the changeable parameters along with justification for the same is enclosed as <b>Annexure-I.</b>	complied
2.	Comparative table for previous EC conditions and present revised proposal w.r.t. all the changeable parameters. Additionally, incorporate	Comparative table w.r.t. all the changeable parameters along with justification for the same is enclosed as <b>Annexure-I.</b>	complied

# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	remarks/column to specify the reason for change.		
3.	Submit write-up regarding increase in power requirement.	Earlier, we had proposed only 2 BHK flats but now we are also proposing 3 BHK flats which have more demand load per unit. Therefore, there is an increase in power requirement. Revised calculation of power load is attached as <b>Annexure-II</b> .	complied
4.	Submit the permission/application copy for discharge of excess treated water to the drainage.	Permission for discharge of excess treated water to the drainage has been obtained from competent authority and copy of the same is attached as <b>Annexure-III</b> .	Copy sent to Planning Member, BDA, BBSR for vetting of Drainage and Sewerage Plan of the project under EIDP by the CE- cum - EM, BDA, BBSR has been submitted.
5.	Submit the EMP plan along with capital and recurring cost.	The capital cost for Environmental Management is estimated to be INR 40 lakh. Approx. INR 20.15 lakh/year will be the annual recurring expenses. Break-up of EMP budget is enclosed as <b>Annexure-IV</b> .	Complied
6.	The proponent shall clarify whether the recurring cost shall be borne by the developer or the management of society.	Undertaking regarding the same is enclosed as <b>Annexure-V</b>	-

The proposed site was visited by the sub-committee of SEAC on 26.12.2023. Following are the observations of the sub-committee:

- The Project site is located in Badaraghunathpur, Bhubaneswar. The PP and Consultant were present and explained the layout.
- There is no construction in the project site. It is approachable by a revenue type of road of about 30 ft width.
- The PP needs to submit the document with layout for the approach road connecting to main high way with authentication.
- There is a Nala existing away in about 100 mts. So, permission from the authority to develop the road and drain in the side of the road along with permission for constructing drain in road side to connect to the existing NALA, for discharge of excess treated water and storm water.
- PP to target for ZLD.
- PP to ascertain fire corridor width and green belt (minimum 20%). Since the land is lengthy, a fire corridor in between may be desirable, however this may be approved from fire authority.
- Parking details as per MOEF guideline to be complied and submitted with provisions for visitors parking.
- All other points asked during presentation to be complied.

Considering the information furnished and the presentation made by the consultant, **M/s Grass Roots Research & Creation India (P) Ltd., Noida** along with the project proponent,

**Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 01.05.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per Annexure – II in addition to the following specific conditions. **However, SEIAA, Odisha may consider to issue EC after submission of the layout showing connection of site with main road by the proponent.**

- i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- ii) The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess SIP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iii) The proponent shall obtain BMC permission to develop the 60 ft road if any along with permission for constructing drain in road side to connect to the existing NALA which is at a distance of around 100 mts distance, for discharge of excess treated water and storm water.
- iv) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- v) The proponent shall obtain permission from concerned Fire Safety Authority.
- vi) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- vii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- viii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- ix) The PP needs to stick to the EC conditions and BDA approval for both phases (earlier one ongoing and new one yet to be started) as far as construction details are concerned and other conditions.
- x) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.
- xi) PP to ascertain fire corridor width and green belt (minimum 20%). Since the land is lengthy, a fire corridor in between shall be provided and same shall be approved from fire authority.
- xii) Parking shall be provided as per MOEF guideline with provisions for visitors parking.
- xiii) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.
- xiv) Total ground coverage is shown to be 47.57% and the same shall be limited to maximum 40%.
- xv) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

**Decision of Authority: Approved**

After detailed deliberations, the Authority decided to grant **Environmental Clearance (EC)** with usual stipulated conditions as applicable for building and construction project along with SEAC recommended specific conditions.

  
Member Secretary, SEIAA

APPROVED BY  
  
Member, SEIAA

  
Chairman, SEIAA



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

### PARIVESH 1.0, AGENDA No.168.15

Proposal No.	SIA/OR/MIS/306106/2023
Date of application	06.11.2023
File no.	227993/54-MIS/09-2021
Project Type	Proposal for Amendment of EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction Projects
Name of the Project	Proposal for Amendment of EC of M/s. Shuvam Construction Pvt Ltd. for 2B+G+14 High Rise Residential Apartment Building over an built-up area 59578.43 Sqm in Mouza-Ghatikia, Bhubaneswar, Dist.-Khurda of Sri Kantilal Patel
Name of the company/Organization	M/S SHUVAM CONSTRUCTION PVT LTD
Location of Project	Mouza-Ghatikia, Bhubaneswar, Dist.-Khurda
ToR date	N/A
Name of Consultant	M/s Grass Roots Research & Creation India (P) Ltd., 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 SEAC/SEIAA, are given as under.

1. This proposal is for Amendment Environmental Clearance of M/s. Shuvam Construction Pvt Ltd for 2B+G+14 High Rise Residential apartment building over an built up area 59578.43 sqm in Mouza-Ghatikia, Bhubaneswar, Dist.- Khurda of Sri Kantilal Patel.
2. **Category:** The project falls under category "B" or activity 8 (a)-Building & Construction Project under EIA Notification dated 14<sup>th</sup> September 2006 as amended from time to time.
3. **Location and Connectivity:** The project is located at Mouza- Ghatikia, Bhubaneswar, District-Khurda, Odisha bounded by Latitude: 20°16'15.78"N and Longitude: 85°46'44.81"E. The Nearest Highway is NH-16 which is 1.44 km from the project site in East direction; NH-316 is 6.70 km towards SE direction, SH-13 is 14.45 km towards SSW direction, Ghatikia Main Road is at a distance of 0.80 km in North direction. The nearest Railway Station is Retang Railway Station at 8.36 km in South direction. Biju Patnaik International Airport Bhubaneswar is at 3 km in ESE direction from project site.
4. Earlier, Environment Clearance was granted by SEIAA, Orissa vide EC Identification No. EC22B038OR134872 dated 22nd July, 2022 for Plot area = 10,732.17 sqm (2.652 acre) and Built-up area = 56,722.86 sqm.
5. Due to proposed amendment, the plot area will change from 10,732.17 to 12,443.97 sqm & BUA will change from 56,722.86 to 59,578.43 sqm.
6. **Comparative statement of amendment:**

S. N. O.	PARTICULARS	EXISTING AS PER EARLIER EC	PROPOSED AMENDMENT	TOTAL AFTER PROPOSED AMENDMENT
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# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

1.	Total Plot Area (m <sup>2</sup> )	10,732.17	1711.8	12,443.97
	Future Development Area	--	1343.54	1,343.54
	Total Road Area	--	594.88	594.88
	Acquisition of Sewerage board	--	364.21	364.21
2.	Net Plot Area	10,732.17	-590.83	10,141.34
3.	Permissible Ground Coverage	6,439.3 (@60% of the plot area)	-354.496	6,084.804 (@60% of the net plot area)
4.	Proposed Ground Coverage	3,053.12 (@ 28.55% of the plot area)	-92.68	2960.44 (@29.19% of the net plot area)
5.	Permissible FAR	75,125.19 (@7 of the plot area)	-4135.81	70,989.38 (@7 of the net plot area)
6.	Proposed FAR	44,996.50 (@ 4.192 of the plot area)	-1674.17	43,322.33 (@ 4.271 of the net plot area)
7.	Non FAR (Fire Tower, Balcony & Basement Area)	11,726.36	4529.74	16,256.1
8.	<b>Total Built Up Area (6 +7+ 8)</b>	<b>56,722.86</b>	<b>2,855.57</b>	<b>59,578.43</b>
9.	Green Area Proposed	2641.18 (@24.16% plot area)	-612.92	2028.26 (@20% of net plot area)
10.	Maximum Height of the Building up to terrace level (meter)	50.93 (G+14)	--	50.26 (G+14)
11.	Population (Nos.)	1672	194	1866
12.	Total Water Requirement (KLD)	212	22	234
13.	Domestic Water Requirement (KLD)	141	85	226
14.	Fresh Water Requirement (KLD)	141	8	149
15.	Wastewater Generation (KLD)	180.16	15.84	196
16.	STP Capacity (KLD)	200	40	240
17.	Rainwater Harvesting Pits (Nos.)	14	20	34
18.	Parking provided	22,308.36 sqm	-9,234.48 sqm	13,073.88 sqm
19.	Power requirement (kW)	1482	118	1600
20.	D.G sets	1000 kVA (2x 500)	-500kVA (250 kVA )	500 kVA (2x 250)



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

21	Solid waste generation (kg/day)	796.8	90.2	887
22	Project cost (INR)	95 Crores	57 Crores	152 Crores

7. **Building details:** There will be a residential tower (288 Dwelling units) with common amenity area. The maximum height of the Tower will be 50.26 m. The total plot area is 12,443.97 sqm and Net plot area is 10,141.34 sqm. The permissible ground coverage will be 6,084.804 sqm (60% of the net plot area) and proposed Ground Coverage will be 2,960.44 sqm (29.19% of the net plot area). The permissible FAR will be 70,989.38 sqm (@7.0 of net plot area) and proposed FAR will be 43,322.33 sqm (@4.271 of net plot area). The Non-FAR for the project will be 16,256.1sqm. Total Built up area for the project will be 59,578.43 sqm. The total population of project after proposed will be 1,866 persons.
8. **Water Requirement:** The total water requirement will be met through Ground water and Bore well which is approx. 234 KLD, total domestic water requirement is 226 KLD. Out of which fresh water requirement is approx. 149 KLD, & flushing water will 77 KLD,

S. No.	Description	Occupancy	Rate of water demand (lpcd)		Total Water Requirement (KLD)		
A	Domestic Water		Fresh	Flushing	Fresh	Flushing	Total
	Residents	1623	90	45	146.07	73.03	219.1
	Staff	81	25	20	2.02	1.62	3.64
	Visitors	162	5	10	0.81	1.62	2.43
					148.9 KLD say 149 KLD	76.27 KLD say 77KLD	225.17 KLD say 226 KLD
Total Domestic Water = 226 KLD							
B	Horticulture	2028.26 m <sup>2</sup>	4 l/sqm		8 KLD		
Grand Total (A+B+C) = 234 KLD							

9. **Waste water details:** The project will generate approx. 196 KLD of waste water. The waste water will be treated in an onsite STP of 240 KLD capacity. The treated effluent will be reused for flushing & horticulture. Surplus treated effluent will be discharged to external sewer.

<b>Domestic Water Requirement</b>	<b>234 KLD</b>
Fresh	149 KLD
Flushing	77 KLD



Waste water (@80% fresh + 100% flushing)	119.2 + 77 = 196 KLD
STP Capacity (20 % higher than waste water)	240 KLD

10. Comparative water calculation:

S. No	Description	Value as per earlier EC	Proposed Amendment	Total Quantity (EC accorded + Amendment)
1.	Total Water Requirement	212	+22	234
2.	Domestic Water Requirement	141	+85	226
3.	Fresh Water Requirement	141	+8	149
4.	Wastewater Generation	180.16	+15.84	196
5.	STP Capacity	200	+40	240

11. **Rainwater harvesting details:** Total 34 RWH pits at different locations will be constructed for the proposed project.

12. **Parking details:** Total parking proposed is 146(LB)+142(UB)+43(Stack UB) = 331 ECS.

13. **Power Requirement:** The power supply will be supplied by State Electricity Board. The requirement load for the project will be 1,600 kW. There is provision of 2 nos. of DG sets total 500 kVA capacity (i.e. 2 x 250 KVA) for power back up. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion. Total solar power as per the following table.

S. No.	DESCRIPTION	SAVING S (kVA)
1.	Solar based Lighting will be done in the common areas, stair cases, landscape areas, signage, entry gates and boundary walls etc. (5% from total power load) Norms for Rooftop PV systems Installation: Solar power back of a minimum generation capacity of 5% of the connected load (OR) 20 Watts/sq.ft on available roof space, whichever is less.	50 kVA
2.	LEDs will be used in all dwelling units.	22.5 kVA
3.	Outdoor and common are lighting shall be LED	7.5 kVA
<b>Total Energy Saved</b>		<b>80 kVA</b>
<b>Total Power load = 1,600 kVA</b>		
<b>Energy saved through various provisions = 80 kVA TOTAL ENERGY SAVING = 10 %</b>		

14. **Solid waste management:** The total solid waste generation will be 887 kg/day.

S. No	Description	Occupancy	Waste Generated (kg/capita/day)	Waste Generated (kg/day)
1.	<b>Domestic Solid Waste</b>			
	Residents	1623	0.5	811.5
	Staff (Maintenance, Club house, Departmental Store)	81	0.3	24.3
	Visitors (Maintenance, Club house, Departmental Store)	162	0.15	24.3
2.	Horticultural Waste (0.5 acre)	@ 0.2 kg/acre/day		0.1
3.	STP Sludge	Waste water x 0.35 x B.O.D difference/1000		26.754
<b>Total Solid Waste Generation = 887 kg/day</b>				

15. **Greenbelt:** Total green area measures 2,028.26 m<sup>2</sup> i.e. 20% of the net plot area. No. of trees required = 1 tree/80 sq.m. of net plot area = 10141.34/80 = 126.766 say 127 Nos. So, total no. of trees proposed is 127 Nos.

S. No.	Botanical Name	Numbers
1	<i>Alstoniascholaris</i>	29
2	<i>Lagerstroemia flosreginae</i>	23
3	<i>Azadirachtaindica</i>	20
4	<i>Mimusopselengi</i>	28
5	<i>Tamarindusindica</i>	5
6	<i>Syzygiumcumini</i>	10
7	<i>Mangiferaindica</i>	12
	<b>Total</b>	<b>127</b>

16. **Project cost:** Total Project cost is estimated to be INR 152 Cr. Including land and development cost.

**Table: ENVIRONMENT MANAGEMENT PLAN COST (OPERATION)**

COMPONENT	CAPITAL COST (INR LAKH)	RECURRING COST (INR LAKH/YR)
Sewage Treatment Plant	50	6
Rain Water Harvesting Pits	35	6
Solid Waste Management	2.5	5
Environmental Monitoring	0	10
Green Area/ Landscape Area	3	0.75



# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

Others (Energy saving devices, miscellaneous)	10	0.25
<b>Total</b>	<b>100.5</b>	<b>28.0</b>

17. **Environment Consultant:** The environment consultant M/s Grass Roots Research & Creation India (P) Ltd., Noida along with the proponent made a presentation on the proposal before the Committee.

18. The SEAC in its meeting held on dated 21-11-2023 recommended the following:

A. **The proponent may be asked to submit the following for further processing of EC application:**

- Clarify exactly what the proponent is increasing both in auxiliary and mainstream.
- Detailed area breakup for balcony, fire tower and basement.
- Comparative table for previous EC condition and present revised proposal w.r.t. all the changeable parameters. Additionally, incorporate remarks column to specify the reason for change.
- NOC/ Permission from concerned authority for discharge of excess treated waste water. Further, submit the copy of application submitted for proposed drain plan from Bhubaneswar Development Authority for drainage discharge.
- Justification for reduction in DG set capacity.
- Increase the greenbelt area upto 20% of the total plot area as per the norms.

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

- Environmental settings of the project site.
- Verify if the site is a flood prone area.
- Construction activity if any started at the site and extent of construction activity.
- 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.

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	Views of SEAC
1.	Clarify exactly what the proponent is increasing both in auxiliary and mainstream.	Post amendment, the plot area will increase from 10,732.17 to 12,443.97 sqm & Built-up area will increase from 56,722.86 to 59,578.43 sqm. A comparative table w.r.t. all the changeable parameters along with the reason for change is enclosed as <b>Annexure-I</b> .	-
2.	Detailed area breakup for balcony, fire tower and basement.	Detailed area statement is enclosed as <b>Annexure-II</b> .	-
3.	Comparative table for previous EC condition and present revised proposal w.r.t. all the changeable parameters. Additionally,	Comparative table w.r.t. all the changeable parameters along with the reason for change is enclosed as <b>Annexure-I</b> .	-



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	incorporate remarks column to specify the reason for change.		
4.	NOC/ Permission from concerned authority for discharge of excess treated waste water. Further, submit the copy of application submitted for proposed drain plan from Bhubaneswar Development Authority for drainage discharge.	NOC from concerned authority for discharge of excess treated waste water is enclosed as <b>Annexure-III</b> . The copy of application submitted for proposed drain plan from Bhubaneswar Development Authority for drainage discharge is enclosed as <b>Annexure-IV</b> .	NOC from concerned authority for discharge of storm water has been accepted. Drainage Layout Plan is submitted.
5.	Justification for reduction in DG set capacity.	The D.G capacity mentioned in earlier EC was incorrect. It has now been corrected in the current EC application.	---
6.	Increase the greenbelt area upto 20% of the total plot area as per the norms.	Landscape plan showing 20% of green area is enclosed as <b>Annexure- V</b>	---
<b>Reply to Site visit points</b>			
1.	Environmental settings of the project site.	Chanduka Dampara WLS is at the distance of 2km towards North direction from the project site. DFO NOC has been obtained from competent authority and copy of the same is enclosed as <b>Annexure- VI</b> . There is no other ecologically sensitive location near the project site.	---
2.	Verify if the site is a flood prone area.	Project Site does not located in flood prone area.	---
3.	Construction activity if any started at the site and extent of construction activity.	No construction has been started yet.	---
4.	Road connectivity to the project site.	The connecting road is Ghatikia Main Road which is 0.8 km towards North from the project site. The Nearest Highway is NH-16 which is approx. 1.44 km in east direction from the project site, NH-316 is approx. 6.7 km (SE) away from the project site.	---



	Drainage network at the site.	Waste water discharge plan showing drain connectivity is attached as <b>Annexure- IV</b> .	---
	Discharge point for discharge of treated water and distance of the discharge point from the project site.	Details provided above in point no. 15.	---
7.	Any other issues including local issues.	No other issues.	---
8.	PP should submit the revenue map showing the connecting road to the project site.	Revenue map showing the connecting road to the project site is attached as <b>Annexure - VII</b>	---

The proposed site was visited by the sub-committee of SEAC on 23.12.2023. Following are the observations of the sub-committee;

- The Project site is located in Ghatikia Bhubaneswar. The PP and Consultant were present and explained the layout.
- There is no construction in the project site.
- There is no blacktop road to site but a kacha road is connecting from the main road. PP informed that it is a 60 ft road connecting to main road. They need to submit the drawing on revenue map with BMC authentication or clarification about the 60 ft road and the sketch to be submitted to SEAC.
- Also, BMC permission to develop the 60 ft road if any along with permission for constructing drain in road side to connect to the existing NALA which is at a distance of around 100 mts distance, for discharge of excess treated water and storm water.
- All other points asked during presentation to be complied.

Considering the information furnished and the presentation made by the consultant, **M/s Grass Roots Research & Creation India (P) Ltd., Noida** along with the project proponent,

- Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 01.05.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – G** in addition to the following specific conditions.
  - The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
  - The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
  - The proponent shall obtain BMC permission to develop the 60 ft road if any along with permission for constructing drain in road side to connect to the existing NALA which is at a distance of around 100 mts distance, for discharge of excess treated water and storm water.
  - The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
  - The proponent shall obtain permission from concerned Fire Safety Authority.
  - Trees located within the project area shall be transplanted to alongside the boundary green development area.



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

- (ii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- (iii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- (ix) The PP needs to stick to the EC conditions and BDA approval for both phases (earlier one ongoing and new one yet to be started) as far as construction details are concerned and other conditions.
- (x) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.
- (xi) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

### Decision of Authority: Approved

After detailed deliberations, the Authority decided to grant **Environmental Clearance (EC)** with usual stipulated conditions as applicable for building and construction project along with SEAC recommended specific conditions

Member Secretary, SEIAA

### APPROVED BY

Member, SEIAA

Chairman, SEIAA



# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

## PARIVESH 1.0, AGENDA No.168.16

Proposal No.	SIA/OR/MIS/293748/2022
Date of application	13.06.2023
File no.	27973/14-NCP-V/06-2018
Project Type	Proposal for Amendment of EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction project
Name of the Project	Proposal for Amendment of EC of M/s. Trident Properties Pvt. Ltd. for Residential apartment building over an builtup area 70174.61 Sqm at Paikarapur, Bhubaneswar, Dist- Khurda of MV Shashi Kumar – Mod EC.
Name of the company/Organization	M/s. Trident Properties Private Limited
Location of Project	Paikarapur, Bhubaneswar, Dist- Khurda
ToR date	N/A
Name of Consultant	M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar

### Proposal in brief:

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

1. This proposal is for amendment of Environmental Clearance of M/s Trident Properties Private Limited for Residential Apartment Building over a built-up area 70174.61 sqm at Paikarapur, Bhubaneswar, Dist- Khurda of MV Shashi Kumar.
2. **Category:** As per EIA Notification, 2006 and its subsequent amendments, the proposed project falls in category B under Schedule in activity 8 (a)- Building & Construction Project.
3. Earlier, Environment Clearance from SEIAA, Odisha was obtained vide letter no. 6361/SEIAA & File No. 27973/14-NCP-V/06-2018, dated 30.11.2018 for Proposed Construction of Residential Apartment Building located at Mouza - Paikarapur, Bhubaneswar, Dist- Khurda, Odisha.
4. Consent to Establish (CTE) has been obtained from OSP/CB vide letter no. 13094/IND-II-CTE-6533, dated 28.07.2022.
5. BDA has approved the building plan vide letter no. 3446/BDA, Bhubaneswar, dated 06.02.2020. Revised BMC approval vide letter no. 20376/BMC, dated 27.04.2023.
6. Certified EC Compliance report of existing EC has been obtained from IRO Bhubaneswar vide letter no. 109-71/EPE/573, dated 09.06.2023.
7. The total FAR area of the project is 70,174.61 sqm.
8. **Justification of amendment:** The proponent proposes to amend the existing Environment Clearance because of decrease in the number of dwelling units by converting some blocks with 1 BHK & 2 BHK units to 3 BHK units, thus reducing the building footprint and built-up area. The proponent is converting 1 large block consisting 166 (1WS 1 BHK) units into 2 smaller blocks consisting of 16 (3 BHK) units each total 32 units reduction in built-up area. Further they seek an amendment in the built-up area from 70,174.61 sqm to 84,228.65 sqm because in the previous Environment Clearance Stilt parking area of 18638.85 sqm that was not added to the FAR area of 70174.61 sqm total built up area being 88813.36 sqm.

## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

9. **Location and connectivity:** The proposed site is located at Paikarapur, Bhubaneswar, Odisha. The Geographical coordinate of the project site is bounded by Latitude - 20° 15' 40.20" N & Longitude - 85° 44' 53.19" E. National Highway (NH-16) connecting Howrah-Chennai is about 3 Km away from the project site. The East Coast railway line runs at a distance of about 15 km from the project site. The Biju Patnaik Airport, Bhubaneswar is at a distance of about 13 Km from the project site.

### 10. Comparative statement of area details of the project:

Particular	As per Existing EC	Amendment of EC
Plot Area	42711.57 sqm	42095.4 sqm
Ground Coverage	17230.68 sqm (40.34%)	17230.68 sqm (40.34%)
Total FAR Area	70174.61 sqm	66824.76 sqm
Stilt Parking	18638.85 sqm	18749.30 sqm
Road Area	12013.56 sqm	19857.92 sqm
Open Parking	1310.34 sqm	2219.84 sqm
Total Parking Area	19949.19 sqm	20969.14 sqm
Green Belt Area	9715.93 sqm (22.74%)	9877.63 sqm (23.5%)
No. of Unit	500 + 166 EWS = 666 Nos.	580 Nos.
Total Builtup Area	FAR Area- 70174.61 sqm Stilt Parking- 18638.85 sqm Total Builtup Area- 88813.46 sqm	85574.06 sqm

11. **Power requirement:** The daily power requirement for the Residential apartment building is preliminarily assessed as 4607 KW (to be revise after ADS submission) source from TPCODL. To meet emergency power requirements during the grid failure, there is provision of DG set having 1x125 KVA + 1x15 KVA + 1x200KVA + 1x40 KVA + 1 x45 KVA capacity for power back up in the project.
12. **Water requirement:** Fresh make up of 304.1 KLD will be required for the project which will be sourced from Ground Water. Fresh Water consumption for the Residential People 3270 @ 90 lpcd = 294.3 m<sup>3</sup> /day, Flushing for Residential People 3270 @ 45 = 147.15 m<sup>3</sup> /day, Fresh Water Consumption for Floating People will be 327 nos @ 30 = 9.8 m<sup>3</sup> /day, Flushing for Floating People will be 327 @ 15 LPCD = 4.9 m<sup>3</sup> /day, for dust suppression and landscaping the required water will be 22.3 m<sup>3</sup> /day and 15.5 m<sup>3</sup> /day respectively.

Sl. No	Description	Total Population	Per Capita Consumption (ltr/day)	Total Water Requirement (KLD)
1.	Residential Population	3270 nos	90	294.3
2.	Floating Population	327 nos	30	9.8
TOTAL				304.1

13. **Wastewater management:** It is expected that the project will generate approx. 364.92 m<sup>3</sup>/day of wastewater. The wastewater will be treated in the STP of capacity of 400 m<sup>3</sup>/day provided within the complex. Out of which 214.85 m<sup>3</sup>/day (to be revise after ADS submission) will be recycled within the project for flushing (152.05 m<sup>3</sup>/day), landscaping (38.8 m<sup>3</sup>/day), Dust Suppression (24.0 m<sup>3</sup>/day), STP loss (20.0 m<sup>3</sup>/day) & 130.07 m<sup>3</sup>/day will be discharged to drain in case of non-monsoon period.

14. **Rainwater harvesting details:** Total runoff load from the project site will be 2056.21 m<sup>3</sup>/hr. Volume of each Recharge pit = 4m x 4m x 6m = 96.0 cum (approx.). So, No. of pits required= 2056.21 /96 = 21.4 say 22 nos. Total no. of Rain Water Harvesting pit provided for the proposed project is 22.0 Nos.

15. **Green belt development:** Green belt will be developed over an area of 9877.63 sqm (23.5 %) of the plot area; by using the local species like Radhachuda, Nageswar, Akash, Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kanlara, Tagar, Henna, etc.

16. **Solid waste management:** From the hotel complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.4 kg/person/day, which will be about 1308.0 kg/day. The generated solid waste from the hotel complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate-colored bins. Proper waste management practices will be adopted during the collection, storage and disposal of the generated solid waste and construction and demolition waste. Solid waste from sweeping and Dry Garbage containing non-biodegradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved recyclers.

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	3270 @ 0.4 kg/day	1308.0
2.	Road sweeping	3270 @ 0.1 kg/day	327.0
3.	STP Sludge	—	183.0
	<b>Total</b>		<b>1818.65</b>

#### Parking Details:

Parking Area Provided			
Stilt parking			18749.3 sqm
Open parking			2219.84 sqm
Total Parking			20969.14 sqm
Equivalent car space Provided			
	Area(sqm)	Area/ECS	
Stilt Parking	18749.3	28	670.0
Open Parking	2219.84	25	89.0
Total Parking Provided			759 ECS

17. **Project cost:** Total cost estimated for the proposed project is Rs 125.0 Crores. EMP cost includes Capital Cost of Rs. 110 Lakhs and recurring cost of 11 lakhs.

18. **Environment Consultant:** The Environment M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar along with the proponent made a presentation on the proposal before the Committee.

19. The SEAC in its meeting held on dated 05-07-2023 recommended the following:

A. **The proponent may be asked to submit the following for further processing of EC application:**

- Land documents of deleted and added up land for the proposed modification along with the ownership details and Kisan with its documentation.
- Clarification on width of the road (EWS) and its percentage in terms of land used in the total project area.



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

iii) Comparative statements of all the physical and environmental parameters in tabular form of both previous project for which EC obtained and proposed modification for which EC applied.

iv) Ensure the difference between the reduced level of bottom of rain water harvesting pit and ground water and submit the report. It should be ensured that a proper gap/difference in level is maintained.

v) Power requirement - 800 KW mentioned in presentation and 4607 KW in Form-I. Which one is correct shall be clarified.

vi) Waste water generation - 344.92 m<sup>3</sup>/day mentioned in Brief summary and 214.85 m<sup>3</sup>/day in presentation. Which one is correct shall be clarified.

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

i) Environmental settings of the project site.

ii) To ensure how much construction activities has been completed.

iii) Road connectivity to the project site.

iv) Drainage network at the site.

v) Discharge point for discharge of treated waste water and distance of the discharge point from the project site.

vi) Any other issues including local issues.

20. 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
iii)	Land documents of deleted and added up land for the proposed modification along with the ownership details and Kisan with its documentation.	Land documents of deleted & added up land is attached in <b>Annexure-1</b> .	ROR submitted
iv)	Clarification on width of the road (EWS) and its percentage in terms of land used in the total project area.	EWS block was provided with 6-meter wide road all around percentage groundcoverage 3.6%. Revised to 2 Blocks 1.44% groundcoverage respectively both together 2.88%, provided with 6-meter-wide road all around each block.	-
v)	Comparative statements of all the physical and environmental parameters in tabular form of both previous project for which EC obtained and proposed modification for which EC applied.	Comparative Statement of the building is attached in <b>Annexure-2</b> .	complied
vi)	Ensure the difference between the reduced level of bottom of rain water harvesting pit and ground water and submit the report. It should be ensured that a proper gap/difference in level is maintained.		The query raised has not complied by PP.



vii)	Power requirement - 800 KW mentioned in presentation and 4607 KW in Form-I. Which one is correct shall be clarified.	The Power requirement of the project is 800.0 KW. The comparative statement is attached in <b>Annexure-2</b> .	-
viii)	Waste water generation - 344.92 m <sup>3</sup> /day mentioned in Brief summary and 214.85 m <sup>3</sup> /day in presentation. Which one is correct shall be clarified.	Total waste water generation of the project is 381.8 KLD & the capacity of STP is 400 KLD. The comparative statement is attached in <b>Annexure-2</b> .	-

21. The proposed site was visited by the sub-committee of SEAC on **21.08.2023**. Following are the observations of the sub-committee:

- The PP and the team explained the Layout of the site in presence of the Consultant.
- It was informed that due to the TP plan of the Govt, the PP had to surrender a block and relocate at another place with the same plan as per approval. Similarly, the buildings marked for EWS has been cancelled and in its place 2 blocks with new design have been proposed.
- It was observed that minor construction activity has been started in the block of EWS (Soil Excavation Foundation) and the new shifted block. PP may be asked to clarify why this cannot be considered as a Violation case? All other units are being constructed as per plan (S+4) as informed by PP.
- The PP informed that above are as per the revised plan obtained from BDA/BMC. The PP was informed to submit the copy of revised plan vetted by the authority and revised layout marking the changes and also land record (power etc) for the new relocated block.
- The site has approach road and the PP explained that they have to construct the drain till the Nallah as per the permission they have and is a part of EID. The PP was asked to submit the layout and permission letter in support of the drain beyond their land till the Nallah.
- Green belt is partly developed and they need to comply the norm including all conditions stipulated in EC earlier given.
- Since there will be 4 DG set and each will have stack separately, a lay out with calculation of stack height as per norm to be provided.
- The land was near low lying area. The PP needs to develop the project in a manner so that there will be no water logging.
- All other points asked during presentation to be submitted.

22. The SEAC in its meeting held on dated **13-11-2023** decided to take the decision on the proposal after receipt of the following information/documents from the proponent:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Ensure the difference between the reduced level of bottom of rain water harvesting pit and ground water and submit the report. It should be ensured that a proper gap/difference in level is maintained.	Detail feasibility report of proposed rain water harvesting pits and hydro geological status of the site is attached in <b>Annexure - 1</b> .
2.	It was observed that minor construction activity has been started in the block of	We had approval from BDA for 13 blocks of S+4 residential apartments and 1 block of G+1



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	EWS (Soil Excavation Foundation) and the new shifted block. PP shall clarify why this cannot be considered as a Violation case? All other units are being constructed as per plan (S+4) as informed by PP.	society building which included the EWS block. We had started the construction of the EWS block. We halted the construction of the EWS block at foundation on receipt of notification that Govt land will be allocated by BDA for construction of EWS building, we have applied for and obtained the revised building plan by converting the single EWS block into 2 blocks of regular apartment and applied for revised EC for 15 Blocks of S+4 residential apartments and 1 block of G+1 society building. The construction observed in the new shifted block was piling work for the revised boundary wall.
3.	The PP informed that above are as per the revised plan obtained from BDA/BMC. The PP needs to submit the copy of revised plan vetted by the authority and revised layout marking the changes and also land record (power etc.) for the new relocated block.	Revised permission has been obtained from Bhubaneswar Municipal Corporation vide letter no. 2037/BMC, dated 27.04.2023 (Revised BMC permission is attached in <b>Annexure -2</b> ). BMC approved building layout plan is attached in <b>Annexure-3</b> . Previous building master plan is attached in <b>Annexure-4</b> and revised master plan with marking the changes is attached in <b>Annexure-5</b> . Development Agreement and General Power Attorney for the new relocated block is attached in <b>Annexure -6</b> .
4.	The site has approach road and the PP explained that they have to construct the drain till the Nullah as per the permission they have and is a part of EID. The PP needs to submit the layout and permission letter in support of the drain beyond their land till the Nullah.	Drainage plan has been vetted by Bhubaneswar Development Authority vide letter no. 681/EM/BDA, Bhubaneswar, dated 25.09.2025. Copy of letter from BDA regarding storm water drain connected to the Nullah is attached in <b>Annexure -7</b> .
5.	Since there will be 4 DG sets and each will have stack separately, a lay out with calculation of stack height as per norm to be provided.	The height of the building is 14.95 m and the stack height of the DG set is 17.50 m which is 2.55 m above from the building height. A Layout plan showing the DG location with stack height is attached in <b>Annexure-8</b> .

Considering the information furnished and the presentation made by the consultant, M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar along with the project proponent,

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 01.05.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – F** in addition to the following specific conditions.

- i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- ii) The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iii) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- iv) The proponent shall obtain permission from concerned Fire Safety Authority.
- v) The proponent shall obtain permission from Water Resources department, Odisha for use of ground water.
- vi) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- vii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- viii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- ix) The PP will not commence construction unless the drain lay out is finalized and permission given for the same by the authority to discharge excess treated water & storm water.
- x) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

**Decision of Authority: ADS**

The Authority perused the public complaint received through SEIAA, Odisha email dt. 01.02.2024 from Sri Ajit Kumar Choudhury, President, TGRWA, Trident Galaxy, Kaling Nagar, BBSR-751003 and inspection report submitted vide letter no. 4235 dt. 11.12.2023 by SPCB, Odisha. After detailed deliberations in the matter, the Authority decided that the project proponent is required to clarify the points mentioned in the inspection report of SPCB regarding violation of the condition of EC and CTO by PP during operation stage of the building. The PP also submit the details drainage plan of the project and closure report to the certified compliance report prepared by the IRO, Bhubaneswar vide Ir. No- 189-71/EPE/573 dated 9.6.2023.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



**PARIVESH 1.0, AGENDA No.168.17**

Proposal No.	SIA/OR/INFRA2/412673/2023
Date of application	16.01.2023
File no.	412673/1502-MIS/01-2023
Project Type	New EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction project
Name of the Project	Proposal for EC of Multistoried Residential Building Project B+S-16 (Blocks A& B) of M/s EVOS Buldcon Pvt. Ltd. over an built-up area 34341.85 sqm at: Mouza- Jagasara, Tahasil - Jatni, Dist- Khordha of Sri Kalinga Keshari Rath
Name of the company/Organization	M/s. EVOS BUILDCON Pvt. Ltd.
Location of Project	Mouza- Jagasara, Tahasil - Jatni, Dist- Khordha
ToR date	N/A
Name of Consultant	M/s Right Source Industrial Solutions 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 SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of Multistoried Residential Building Project B+S-16 (Blocks A& B) of M/s Evos Buldcon Pvt. Ltd. over a built-up area 34341.85 Sq.mt At: Mouza- Jagasara, Tahasil - Jatni, Dist - Khordha of Sri Kalinga Keshari Rath.
2. **Category:** As per EIA Notification, 2006 and its subsequent amendments this proposed project falls under category B1 and activity 8 (a) - Building and Construction projects.
3. **Project details:** The proposed twin blocks project "Empire Twins" is a multistoried Residential Apartment Building comprising of 2 nos. (two) blocks which are of same configuration with B+S+16 Floors each over a total plot area of 6801.18 Sq.m or 1.681 Acres in favour of M/s Evos Buldcon Pvt. Ltd.
4. Approval from Bhubaneswar Development Authority, Bhubaneswar vide File No- BP-BDA- 2022-10-23-009644 has been applied to by the project proponent (applicant).
5. **Location and connectivity:** The proposed project site is located at Plot No - 580, 581, 582, 583, 599, 581/1308, 599/1134, Khata No- 229/1899 (old Khata No. 229/320), 229/893, 229/322, 229/1477 in Mouza- Jagasara, Tahasil - Jatni of Khordha district, Odisha. The proposed project site lies and covered in the Survey of India Topo sheet no. F45T11. The geographical co-ordinates of project site are Latitude 20° 16' 06.84" N to 20° 15' 07.67" N and Longitude 85° 43' 11.46" N to 85° 43' 13.84" E. The upcoming project site is located at a distance of 1.0 km from Mouza - Jagasara. Khordha is at a distance of 13.0 Km. NH-16 is at a distance of 3 km. Khordha Chandaka Road is at a distance of 3.2 km. Bhubaneswar town is located at a distance of 12.0 km. Biju Patnaik International Airport is at a distance of 10 km. Bhubaneswar Railway station is at a distance of 13.0 km. Bhubaneswar Fire Station is located at a distance of 8.7 km and Bhubaneswar govt. hospital is located at a distance of 10.8 km from the project site.



#### 6. Built up area details:

Plot Area	: 6801.18 Sqm
Net Site Area	: 6799.80 Sqm
Total Proposed FAR Area	: 27099.52 Sqm
Covered Parking Area	: 7,242.33 Sqm
S.Pool Area	: 112.66 Sqm
Total Built-up Area	: 34341.85 Sqm
Total Green Area	: 1500 (22.06%) Sqm
Height of the Building	: 51.25 mts
No of Blocks	: A & B with 16 floors each.
No of Flats	: 176 (3BHK)

7. **Water requirement:** The source of water supply during operational phase will be borewells for which requisite approval from the CGWA has been applied for. The total water requirement for the proposed project is approx. 163 KLD, out of which total domestic water requirement is 147 KLD. The freshwater requirement is approx. 103 KLD. No Objection Certificate (NOC) for Ground Water Abstraction was obtained with NOC No. CGWA/NOC/INF/ORIG/2022/17056, valid from 17/11/2022 to 16/11/2027 for 97KLD.
8. **Wastewater Generation and Treatment:** The total domestic water requirement for this residential project will be 147 KLD and it is expected that the project will generate approx. 128 KLD of wastewater. The wastewater will be treated in onsite STP of 150 KLD capacity. The treated effluent will be reused for flushing, greenbelt and miscellaneous uses. Surplus treated effluent will be discharged to Recharge Trench.
9. **Rainwater harvesting:** Rainwater harvesting has been catered to and designed as per the guideline of CGWA. Peak hourly rainfall has been considered as 140 mm/hr. The recharge pit of dimensions 1.5mx1.5mx2m (Liquid Depth) is constructed for recharging the water. 11 Nos. rainwater harvesting pits are being provided for run-off from the site.
10. **Fire fighting details:** The height of the building is upto 51.25 mts. Fire Extinguisher, First Aid, Hose Reel, Wet Riser, Yard Hydrant, Automatic Sprinkler System, Manually operated Electronic Fire Alarm System, Underground Static Water Tank including Water Curtain, Overhead Tank will be provided as safety measures in both the blocks. Internal road of 7.5 mt width has been demarcated for movement of fire vehicle.
11. **Solid waste generation:** During the operation phase, estimated quantity of the waste shall be approx. 626 kg per day. Garbage will be 607.5 Kg/Day in which Biodegradable Waste 364.5 Kg/Day @ 60% will be treated in In-house Organic Waste Converter and Non-Biodegradable waste 243 Kg/Day @ 40% will be sent to Authorized Vendors as per SWM Rules 2016. Landscape waste will be 0.074 Kg/Day. STP Sludge generation will be 17.9 Kg/day.
12. **Power requirement in the project:** Electricity requirement for the apartment building will be 2060.11KW which will be supplied from TPCDOL. Out of the total electricity requirement 107.9 KW will be required for common area power load, common area light load and outdoor light and power. There will be electrical distribution transformers within the project site. DG Set of 2 Nos. of capacity 315 KVA has been proposed for the residential society to provide supply considering the critical loads for each application. Solar power generation is 103 KW from PV solar panels.
13. **Parking details:** Parking required as per BDA is 25% of proposed F.A.R which is 25% of 27099.52 sqm i.e., 6774.80 sqm. In terms of ECS @ 32 sqm = 210 ECS. Parking area provided is 7,713.09 sqm (basement



## **Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024**

parking – 4754.74 sqm + atilt parking - 2527.59 sqm + open parking - 470.76 sqm) in terms of ECS @ 32/23 sqm which is 255 ECS.

**14. Greenbelt:** Total green area measures 1500.0 m<sup>2</sup> (approx. 22.06% of the total plot area). Green Belt is 925.0 Sqm and Green Area is 575.0 Sqm. Evergreen tall and ornamental trees have been proposed to be planted inside the premises.

**15. Project cost:** The estimated cost of the upcoming residential project is INR 72.0 Crores. TMP cost is 60 lakhs (capital) and recurring 17 lakhs. For environmental protection measures a amount of Rs.74 Lakhs as capital cost and Rs.24.5 Lakhs as recurring cost has been earmarked.

**16. Environment Consultant:** The Environment consultant M/s Right Source Industrial Solutions Pvt. Ltd. along with the proponent made a presentation on the proposal before the Committee on dtd. 17.02.2023.

**17. The SEAC in its meeting held on dated 17-02-2023 recommended the following:**

**A. The proponent may be asked to submit the following for further processing of EC application:**

- i) Land schedule and Kism of land.
- ii) Traffic study report and get vetted from reputed institute.
- iii) Recalculate RWII by taking maximum rainfall into account.
- iv) Drain connectivity and discharge point.
- v) Break up calculation for solar power generation, consumption, roof top capacity, percentage contribute to power demand.
- vi) Status of permission from Airport Authority about building height.
- vii) Green belt is observed to be 13% and needs to be revised to meet the norm and revised plan/layout to be submitted.
- viii) Permission from appropriate authority for discharge of treated water to be provided.

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

- i) Environmental settings of the project site.
- ii) Construction activity, if any started at the site.
- iii) Road connectivity to the project site.
- iv) Drainage network at the site.
- v) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- vi) Any other issues including local issues.

**18. The proposed site was visited by the sub-committee of SEAC on 29.03.2023. Following are the observations of the sub-committee:**

- a) PP and Consultant were present along with other team members.
- b) It was observed that the site is adjacent to a 40 ft. road.
- c) The site was clean and no construction work carried out.
- d) PP explained that as per plan the project will be of ZLD. However, rain water and excess treated water if any shall be allowed to fall in an existing Nallah through a drain to be constructed by them. Since the road is a private road, necessary POA to be taken from the land owner for constructing the drain. Any portion of drain if on Govt road, required permission also to be taken from the appropriate authority (BDA/BMC) (Conditions to be stipulated)
- e) A Nallah was seen at a distance from the site. Permission to allow water as at d) above to be also taken from the appropriate authority (Conditions to be stipulated)
- f) Trees are to be planted to comply green belt requirement.

g) Documents asked during presentation needs to be submitted.

9. 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.	Land schedule and Kisam of land.	Plot No – 580,581,582,583,599, 581/1308,599/1134, Khata No – 229/320,229/893, 229/322, 229/1477, Mouza – Jagasara, Tahasil – Jatni, District – Khordha, Odisha.  Attached Land documents as <b>Annexure – I.</b>	submitted
2.	Traffic study report and get vetted from reputed institute.	Traffic study Report was vetted by School of Civil Engineering KIIT Deemed to be University, Bhubaneswar.  Attached Land documents <b>Annexure – II.</b>	Present Traffic is categorized under LOS is 'A', After 10 years, with/without project the LOS will be 'B' as vetted by School of Civil Engineering KIIT Deemed to be University, Bhubaneswar.
3.	Recalculate RWH by taking maximum rainfall into account.	8 No's of Rain Water Harvesting pits area being proposed for artificial rain water recharge within the project premises.  Calculation attached as <b>Annexure –III.</b>	8 No's of Rain Water Harvesting pits has been proposed taking account peak rainfall intensity of 0.140m/hr.
4.	Drain connectivity and discharge point.	The drainage connectivity and discharge point layout attached as <b>Annexure –IV.</b>  Drainage network will be developed by the Project Proponent.	Drainage map submitted,
5.	Break up calculation for solar power generation, consumption, roof top capacity, percentage contribute to power demand.	Solar Power utilization will be 7.1%  The details are attached as <b>Annexure – V.</b>	Solar power consumption and total power usage is given. <b>However, Break up calculation for solar power</b>

# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

			generation is not submitted.
6.	Status of permission from Airport Authority about building height.	NOC ID: BHUB/EAST/B/102922/723896 NOC from AAI was obtained on 15.11.2023 valid upto 14.11.2030.  Attached as <b>Annexure – VI.</b>	submitted
7.	Green belt is observed to be 13% and needs to be revised to meet the norm and revised plan/layout to be submitted	Not submitted	Not submitted
8.	Permission from appropriate authority for discharge of treated water to be provided	Not submitted	Not submitted

20. The SEAC in its meeting held on dated **12-07-2023** 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:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Break up calculation for solar power generation, consumption, roof top capacity, percentage contribute to power demand.	Solar power calculation has been attached for your reference as <b>Annexure –I.</b> The Solar power generation will be 150 KW with PV capacity as 1.5 KWh.
2.	Green belt is observed to be 13% and needs to be revised to meet the norm and revised plan/layout to be submitted.	Total Plot area 6,799.80 m <sup>2</sup> Proposed Green belt area 1359m <sup>2</sup> (19.98% of plot area) and green area is 325 Sq.m Total proposed area for green belt development is 1359 + 325 = 1684 Sq.m which is 24.76% of total plot area. The revised layout plan has been attached for your reference as <b>Annexure –IV.</b>
3.	Permission from appropriate authority for discharge of treated water to be provided.	Declaration letter has been attached for your reference as <b>Annexure-II.</b>
4.	Document with respect to POA from the land owner for constructing the drain (if it is passing through private land) and if through Govt. road,	Declaration letter has been attached for your reference as <b>Annexure-II.</b>



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	required permission from the appropriate authority (BDA/BMC etc) May be submitted as suggested during site visit.	
5.	A Nallah was seen at a distance from the site. Permission to allow water as above from the appropriate authority (if obtained or applied) to be submitted.	Acknowledgement letter has been attached for your reference as <b>Annexure-III</b> .

1. The SEAC in its meeting held on dated **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
i.	Permission from appropriate authority for discharge of treated water to be provided.	Declaration letter has been attached for your reference as <b>Annexure-I</b> .	Application to the Chief Engineer, Drainage Division, Cuttack, Odisha for vetting of EIDP of the proposed project has been submitted.
ii.	Document with respect to POA from the land owner for constructing the drain (if it is passing through private land) and if through Govt. road, required permission from the appropriate authority (BDA/BMC etc.) May be submitted as suggested during site visit.	An affidavit of undertaking by the project proponent has been submitted for your reference as <b>Annexure – II</b> .	-
iii.	A Nallah was seen at a distance from the site. Permission to allow water as above from the appropriate authority (if obtained or applied) to be submitted.	Acknowledgement letter of application has been attached for your reference as <b>Annexure – I</b> .	Application to the Chief Engineer, Drainage Division, Cuttack, Odisha for vetting of EIDP of the proposed project has been submitted.

Considering the information furnished and the presentation made by the consultant, **M/s Right Source Industrial Solutions Pvt. Ltd.** along with the project proponent.

**Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 01.05.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – D** in addition to the following specific conditions.



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

- i) Affidavit has submitted by PP that they will 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 in which drain will be constructed to nearest available disposal point. The PP shall strictly follow it, failing to which EC shall be revoked.
- ii) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- iii) The Proponent shall obtain permission/NOC from Executive Engr. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iv) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- v) The proponent shall obtain permission from concerned Fire Safety Authority.
- vi) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- vii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- viii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- ix) The PP will not commence construction unless the drain lay out is finalized and permission given for the same by the authority to discharge excess treated water & storm water.
- x) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.
- xi) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

### Decision of Authority: Approved

After detailed deliberations in the matter, the Authority decided to grant **Environmental Clearance (EC)** 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 in which drain will be constructed to nearest available disposal point within a period of two years. 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 stands automatically revoked.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



**PARIVESH 1.0, AGENDA No.168.18**

Proposal No.	SIA/OR/INFRA2/446425/2023
Date of application	12.10.2023
File no.	446425/515-INFRA2/10-2023
Project Type	New EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction project
Name of the Project	Proposal for EC of M/s. Sthaapaty Pvt. Ltd for Proposed (2B+G+12) Multi Storied Residential Apartment over an built-up area located at Plot No.- 361, Khata No-212, Mouza-Bandhachhada & Kacharamala, Tahasil-Cuttack, Dist-Cuttack of Sri Abinash Dash
Name of the company/Organization	M/s. Sthaapaty Pvt. Ltd.
Location of Project	Mouza-Bandhachhada & Kacharamala, Tahasil-Cuttack, Dist-Cuttack
ToR date	N/A
Name of Consultant	M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar

**Proposal in brief:**

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

1. This proposal is for Environmental Clearance of M/s Sthaapaty Pvt. Ltd for Proposed (2B+G+12) Multi Storied Residential Apartment over an built-up area located at Plot No.- 361, Khata No-212, Mouza-Bandhachhada & Kacharamala, Tahasil- Cuttack, Dist-Cuttack of Sri Abinash Dash.
2. **Category:** The project falls under category "B" or activity 8 (a)-Building & Construction Project under EIA Notification dated 14th September 2006-as amended from time to time.
3. **Location and Connectivity** - The proposed site is located at Mouza- Bandhachhada and Kacharamala, Tehsil- Cuttack, Dist- Cuttack, Odisha. The Geographical co-ordinate of the project site is Latitude 20°22'05.00"N & Longitude 85°53'18.9"E. The project site is well connected with the National Highway-16 & Puri-canal Road located at the distance of 0.2 Km & 0.03 km respectively. The nearest Railway station is Bhubaneswar Railway Station at a distance of approximately 12.2 Km from the project site. The nearest Airport is Biju Patnaik International Airport, Bhubaneswar which is at a distance of 14.5 Km from the project site. Kalkholi River is at a distance of 0.5 km from project site.
4. The site is coming under Cuttack Municipal Corporation (CMC).
5. The total plot area is 6152.854 sq.mt. with total built-up area 24535.357 sq.mt.
6. Details of the Project in tabulated form

Particular	Permissible	Proposed
Project Name	Proposed 2B+G+12 <sup>th</sup> Multi Storied Residential Apartment	
Plot Area	6152.854 sqm	
Ground Coverage		2082.125 sqm (33.84%)
FAR	7.5	3.987
Total Built up Area	--	24535.357 sqm



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

Maximum Height	--	40.9
Road Area	--	1700 sqm
Open Visitor Parking	--	88 sqm.
Basement Parking	--	4547.939 sqm.
Open Parking	--	88.00 sqm
Total Parking Area	7360.60 sqm (30% of FAR Area)	9183.878 sqm.
Green Area	1,230.57 sqm (20% of Plot Area)	1,384.57 sqm (22.5% of Plot Area)
Maximum No. of Floor	--	2B+G-12 <sup>th</sup>
Power/Electricity Requirement & Sources	--	1839.6 KW Source: TPCODL
No. of DG sets	--	2x500 KVA
Solar Energy	--	101.5 KW (5.5 %)
Water requirement & Sources	--	103.0 KLD
Waste Water Generation	--	132.7 KLD
Sewage Treatment & Disposal	--	STP Capacity – 150 KLD
Solid Waste Generation	--	583.3 kg/day
No. of Dwelling Unit	--	184 nos.
Estimated Population-Residential, Floating/visitors	--	Residential- 1112 Nos. Floating- 111 Nos.

7. **Statutory clearances:** CDA has provisionally approved the building plan vide Letter No. 1586/CMC, dated: 26.10.2022. Ground Water Clearance obtained from CGWA vide NoC No. CGWA/NOC/INF/ORIG/2023/18573, dated 22.05.2023. Height clearance obtained from Airport Authority of India (AAI) vide NOC ID BHUB/EAST/B/111422/726399, dated 26.12.2022. Water & Sewerage connection from WATCO Cuttack vide letter no. 2214, dated 14.02.2023. Fire recommendation obtained from Odisha Fire Services vide recommendation No. RECOMM1101020042022000946, dated 08.12.2022. Electricity permission obtained from TPCODL vide Letter No. TPCODL/CED/TECH/No. 667, dated 24.02.2023.

8. **Water requirement:** Fresh make up water of quantity 103.0 m<sup>3</sup>/day will be required for the project which will be sourced from Ground Water.

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)	Water Requirement (KLD)		
				Domestic	Flushing	Total
1.	Residential Building	1112 nos.	135	100.08	50.04	150.12
2.	Visitor @ 10 %	111 nos.	45	2.77	2.22	4.99
<b>TOTAL</b>				<b>102.85 ≈ 103</b>	<b>52.26 ≈ 53</b>	<b>155.11 ≈ 156</b>

9. **Waste water generation and management:** Total waste water generated from the proposed building will be 132.7 KLD which is treated in STP of capacity 150.0 KLD.



Details of waste water calculation	Water (KLD)
Water requirement for domestic purpose	103.0
Wastewater generated from domestic use (@ 80% of domestic water requirement)	82.4
Water requirement for Flushing Purpose	53.0
Wastewater generated from Flushing (@ 95% of flushing requirement)	50.3
Total Wastewater generated	82.4+50.3 = 132.7 KLD
Sewage Treatment Plant Capacity	150 KLD
STP Loss (5 % of wastewater generation)	6.6
Recycled water form STP @ 95% of wastewater generated	126.0

10. **Power requirement:** Total Power requirement of the proposed residential building is 1839.6 KW. Source is TPCODL. 2x500 KVA DG Set will be provided. Total 101.5 KW Solar Power Generation which is 5.5% of total power required in project.

Total Power Requirement	1839.6 KW
Power from Solar System	101.5 KW
Source	TPCODL
Back up Power	2 x 500 KVA DG sets will be provided.

11. **Rain Water Harvesting:** Total 137 cum Rain Water will be harvested through 14nos. of recharge pits.  
 12. **Parking Requirement:** Total parking area of 9183.878 Sq.mt. will be provided and total 288 nos. of ECS and location of parking area is Basement.

Parking Area Provided			
Basement Parking			9095.878 sqm
Open Parking			88.000 sqm
<b>Total Parking</b>	--	--	<b>9183.878 sqm</b>
Equivalent Car Space Provided			
	Area (sqm)	Area/ECS	
Basement Parking	9095.878	32	284 ECS
Open Parking	88 sqm	25	4 ECS
<b>Total Parking Provided</b>			<b>288 ECS</b>
Total Four Wheeler Parking			184 Nos.
Total Two Wheeler Parking			150 Nos.
Parking for Visitor (10%)			918.4 sqm

13. **Green Belt Development:** Greenbelt will be developed over an area of 1,384.57 sqm which is 22.5% of the total plot area. Total 80 nos. of plants to be planted.  
 14. **Solid Waste Management:** Solid waste generated and its management.

**Detail of Solid Waste Management**

S. No.	Category	Counts (heads)	Waste generated (kg/day)
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## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

Residents	1112 @ 0.45 kg/day	500.4
2. Floating	111 @ 0.15 kg/day	16.6
STP sludge		66.3
<b>Total Solid Waste Generated</b>		<b>583.3 kg/day</b>

15. **Project cost:** The estimated project cost is 45.0 Crores and cost for EMP is 1.7 Crores.

16. **Environment Consultant:** The Environment consultant M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar along with the proponent made a presentation on the proposal before the Committee.

17. The SEAC in its meeting held on dated 21-11-2023 recommended the following:

A. **The proponent may be asked to submit the following for further processing of EC application:**

- i) Supporting document with layout plan for approach road and permission from concerned authority for usage.
- ii) NOC/permission from concerned authority for discharge of treated waste water into the nearby drains.
- iii) Brief write up on present road connectivity status to the proposed project.
- iv) Revisit the water balance to reduce the water discharge.
- v) Traffic study report vetted by institute of repute.
- vi) RL of ground water level during monsoon and rainy season, Plinth reduced level; Bottom reduced level of discharge pit, ground water level.
- vii) Structural stability certificate vetted by Institute of repute.
- viii) Details of Fire Recommendations.

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

- i) Environmental settings of the project site.
- ii) Verify if the site is a flood prone area.
- iii) Construction activity if any started at the site and extent of construction activity.
- iv) Road connectivity to the project site.
- v) Drainage network at the site.
- vi) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- vii) Any other issues including local issues.

18. 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.	Supporting document with layout plan for approach road and permission from concerned authority for usage.	Tahasildar Letter regarding Demarcation of land for Construction of Road from NH- 16 to Puri Main Canal (0/000 Km to 0/322 Km) over Plot No. 369 & Plot No. 370 is attached in Annexure-I.	Copy submitted
2.	NOC/permission from concerned authority for discharge of treated waste water into the nearby drains.	The treated waste water from Sewage Treatment Plant will be discharged to nearest municipal drain. WATCO has issued the NoC vide letter no. 2214, dated 14.02.2023 for Water & Sewerage connection to the proposed	NOC from WATCO who have clearly replied that as there is no water supply and sewage drains available,



		site. WATCO letter is attached in <b>Annexure-2</b> and we have already submitted the EIDP Plan to the concerned authority. EIDP drawing is attached in <b>Annexure-3</b> .	the PP needs to do necessary arrangements.
3.	Brief write up on present road connectivity status to the proposed project.	The present road connectivity to the proposed project site is near to the Puri main canal road which is connected to the project site.	-
4.	Revisit the water balance to reduce the water discharge.	Total fresh water requirement of the project is 103.0 KLD & flushing water requirement of the project is 53.0 KLD. Total wastewater generated from the project is 132.7 KLD which is treated in 150.0 KLD Sewage Treatment Plant & the treated water available from the STP is 126.0 KLD which is reused in Flushing (53.0 KLD), Dust Suppression (12.5 KLD), Landscaping (15.5 KLD) & 45.0 KLD treated water will be discharged to nearest drain. So we are reduced the treated waste water discharged to drain from 62.9 KLD to 45.0 KLD. Revised water balance is attached in <b>Annexure-4</b> .	Total Fresh water – 103.0KLD. Treated water discharge to drain in Monsoon period-62.9KLD and Non Monsoon Period – 45.0KLD
5.	Traffic study report vetted by Institute of repute.	Traffic Study Report has been vetted by IIT Bhubaneswar on 14.02.2024. Vetted Traffic Study Report is attached in <b>Annexure-5</b> .	From the study, it is observed that there is an insignificant change (in the year 2034-2035) in the Level of Service (LOS) of the road (NH-16) due to the addition of traffic that is likely to be generated from the project site. As per Comprehensive Development Plan 2030 (CDP)



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

			prepared by IIT Kharagpur for greater Bhubaneswar, the road will be expanded, which will make the road more comfortable for the users and elevate the LOS of the road from very good to excellent status.
6.	RI. of ground water level during monsoon and rainy season, Plinth reduced level; Bottom reduced level of discharge pit, ground water level.	A detailed contour survey has been made and drainage plan has been prepared. The height of the drain & Ground Level will be maintained. EIDP drawing is already attached in <b>Annexure-3</b> .	---
7.	Structural stability certificate vetted by institute of repute.	Structural Design has been vetted by Department of Civil Engineering, Indian Institute of Technology, Guwahati on 21.02.2024. Structural Stability Certificate is attached in <b>Annexure-6</b> .	---
8.	Details of Fire Recommendations.	The Fire Safety Clearance has been recommended by Odisha Fire Services vide recommendation letter no.RECOMM1101020042022000946, dated 08.12.2022. Recommendation letter is attached in <b>Annexure-7</b> .	---

19. The proposed site was visited by the sub-committee of SEAC on 29.03.2024. Following are the observations of the sub-committee:

- The site is connected to a road of about 200ft under construction by PWD which would connect the NH, PP to submit document in support of the same.
- The land was empty without any constructional activity
- There is a drain available at the side of the Canal Road which could be connected from the site. However, the PP needs to take permission for drain connection for discharge of storm and excess treated water from the appropriate authority before construction.
- Layout plan was explained by the PP along with details of building and safety corridor. It was advised to revise the gate width to 7.5 mt minimum, shops inside the premise to be operated only for residents and no commercial purpose.
- As the land is low lying, proper terrain management to be done to avoid water logging during rain.
- All other points asked during presentation to be complied.

Considering the information furnished and the presentation made by the consultant, **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar** along with the project proponent.

**2. Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 01.05.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per Annexure – E in addition to the following specific conditions. **However, SEIAA, Odisha may consider to issue EC, after the Project Proponent submit an undertaking in form of legal affidavit that they shall make necessary arrangement to adopt Zero Liquid Discharge (ZLD) and / or construct drain for discharge of treated water, after acquiring land (Govt. or Private land) obtaining permission and possession as the case may be before going for construction of the project, as there is a drain available at the side of the Canal Road which could be connected from the site as observed during site visit and also same has been informed by the concerned authority to the Project Proponent.**

- i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- ii) The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iii) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- iv) The proponent shall obtain permission from concerned Fire Safety Authority.
- v) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- vi) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- vii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- viii) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.
- ix) The proponent shall obtain permission from Water Resources department, Odisha for use of ground water.
- x) The PP shall ensure permissions for discharge of treated / excess rain water in drains constructed by them / or BMC before starting the construction work.
- xi) The project proponent has to obtain necessary permission from the CGWA / CGWB/ water resource department along with other conditions related to portability of the ground water for use of ground water during the operational phase of the project till WATCO supply of water is made available at the project site.
- xii) The width of the gate needs to be 7.5 mt minimum.
- xiii) Shops inside the premise to be operated only for residents and no commercial purpose.
- xiv) As the land is low lying, proper terrain management to be done to avoid water logging during rain.

Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.

#### **Decision of Authority: Approved**


After detailed deliberations in the matter, the Authority decided to grant **Environmental Clearance (EC)** 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 in which drain will be constructed to nearest available disposal point within a period of two years. Further the PP shall construct approach road from NH-16 to the project area within a period of two years. The PP shall submit a




**Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024**

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 automatically revoked.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA



## PARIVESH I.O, AGENDA No.168.19

Proposal No.	SIA/OR/INFRA2/453486/2023
Date of application	30.11.2023
File no.	453486/127-INFRA2/11-2023
Project Type	New EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction project
Name of the Project	Proposal for EC of M/s. GD Constructions for Residential Apartment Building 'Arka Heights' with total built-up area 35,393.31m <sup>2</sup> at Mouza-Haladiapadar, Tahasil - Kamisi, District-Ganjam of Sri Bikram Kumar Panigrahi
Name of the company/Organization	M/s. GD CONSTRUCTIONS
Location of Project	Mouza-Haladiapadar, Tahasil - Kamisi, District-Ganjam
ToR date	N/A
Name of Consultant	M/s Grass Roots Research & Creation India (P) Ltd., 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 SEAC/SEIAA, are given as under:

1. This proposal is for Environmental Clearance of M/s GD Constructions for Residential Apartment Building 'Arka Heights' with total built-up area 35,393.31m<sup>2</sup> at Mouza - Haladiapadar, Tahasil - Kamisi, District - Ganjam of Sri Bikram Kumar Panigrahi.
2. **Category:** As per the EIA Notification, 2006 and its subsequent amendments, the proposed project falls under 8 (a): Building & Construction projects.
3. **Location and Connectivity:** The project site is located at Plot No.- 2209, Khata No. 227, Mouza-Haladiapadar, Tehsil - Kamisi, District - Ganjam, Odisha. The geographical co-ordinates of project site are 19°17'05.97"N and 84°46'52.37"E and the project is a part of the Survey of India Toposheet no. E45A15. The Gosaniuagan Road is at 0.25 km towards NE direction. The nearest Highway is NH-16 which is 0.7 km towards SSE direction, NH-59 is 3.6 km towards NE direction, NH-516 is 7.2 km towards FNE direction, NH-516A is 12.1 km towards East direction, SH-22 is 3 km towards NW direction, SH-17 is 4.5 km towards N direction, SH-32 is 9.8 km towards FNE direction and SH-36 is 14.2 km towards NE direction. The nearest Railway Station is Berhampur Railway Station is about 2 km (NE) away from the project site. Nearest airport is Biju Patnaik International Airport is at 151.5 km (NE) from project site.
4. The site is coming under Brahmapur Development Authority.
5. The plot area is 7,768.56 m<sup>2</sup> (1.92 acres) with total built-up area 35,393.31 m<sup>2</sup>.
6. **The Building Area Details of the Project is:**

S. No.	Particulars	Area (m <sup>2</sup> )
i)	Total Plot Area	7,768.56
	Road Widening	275.92
	Net plot area	7,492.64
ii)	Permissible Ground Coverage (@ 40 % of the net plot area)	2,997.056



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

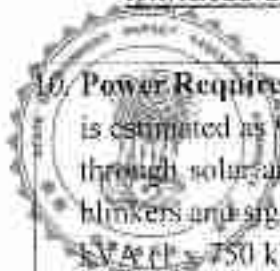
vi)	Proposed Ground Coverage (@30.63 % of the net plot area)	2,294.995
vii)	Permissible FAR (@4.00)	29,970.56
viii)	Proposed FAR (@3.49)	26,149.313
ix)	Net FAR Area	9,243.997
x)	Built-up Area (5+6)	35,393.31
xi)	Proposed Parking	8,367.38
xii)	Landscape Area (@ 20% of net plot area)	1,486.528
xiii)	Maximum Height of the Building (m)	41.6 m

7. **Water Requirement:** In ADS revised water balance has been submitted. Fresh water requirement is now-106KLD. The treated effluent will be reused for flushing & horticulture. 68 KLD Surplus treated effluent will be discharged to external sewer in monsoon and 58 KLD in summer season.
8. **Water Requirement was submitted during presentation** - During operation phase, the source of water supply will be Ground water. The total water requirement for the project will be approx. 166 KLD out of which domestic water demand is 158 KLD. The freshwater requirement will be 104KLD. NOC from CGWA has been obtained vide no. CGWA/NOC/INF/ORIG/2022/17059 valid from 17<sup>th</sup> Nov. 2022 to 16<sup>th</sup> Nov. 2027.

S. No	Description	Occupancy	Rate of water demand (LPCD)		Total Water Requirement (KLD)		
A	Domestic Water		Fresh	Flushing	Fresh	Flushing	Total
	Residents	1116	90	45	100.44	50.22	150.66
	Staff (Maintenance, Commercial, Community )	80	25	20	2	1.6	3.6
	Visitors(Maintenance, Commercial, Community )	251	5	10	1.25	2.51	3.76
					104 KLD	54 KLD	158 KLD
Total Domestic Water =158KLD							
B	Horticulture	1,486.528m <sup>2</sup>	4 l/sqm		6 KLD		
C	Make Up water for Swimming Pool ( 43.3 sqm)	43.3 sqm x 0.9 @5% of water		2 KLD			
Grand Total (A+B+ C) = 166 KLD							

9. **Wastewater generation:** It is expected that, the project will generate approx. 137 KLD of wastewater. The wastewater will be treated in onsite STP of 165 KLD capacity. The treated effluent will be reused for flushing & horticulture. 68 KLD Surplus treated effluent will be discharged to external sewer in monsoon and 63 KLD in summer season.

<b>Domestic Water Requirement</b>	<b>158 KLD</b>
• Fresh	104 KLD
• Flushing	54 KLD
<b>Wastewater (@80% fresh + 100% flushing)</b>	<b>83.2 + 54 = 137 KLD</b>
<b>STP Capacity (~20 % higher than waste water)</b>	<b>165 KLD</b>



10. **Power Requirement:** The power supply will be through State Electricity Board. The total maximum demand is estimated as 988 KW. 10% i.e., 98.8 KW energy will be saving from total energy load (5% i.e., 49.4 KW through solar and 5% i.e., 49.4 KW through LED). Solar energy will be utilized for street lighting, solar blinkers and signage to reduce electricity consumption. There is provision of 2 nos. of DG sets of total 1,500 kVA (1 x 750 kVA + 1 x 750 kVA) capacity for power back up. The DG set will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion as per CPCB norms.
11. **Rainwater Harvesting:** 3 RWH tanks of 162.5 m<sup>3</sup> capacity each are proposed to collect rainwater for 578.338 m<sup>3</sup> runoff load.
12. **Parking Requirement:** Proposed Parking Area = = 8,367.38 m<sup>2</sup> [i.e., 7,128.23 m<sup>2</sup> (Covered parking) + 1,239.15 m<sup>2</sup> (Open parking)]. Total 277 ECS is proposed.
13. **Fire Fighting Installation:** Fire fighting measures will be adopted as per the guidelines of NBC. External yard hydrants shall be installed around all buildings in the complex in galvanized steel fire house cabinet (weatherproof). All external yard hydrants shall be at one meter height from finished ground level as per NBC at a distance of 60 m along the road. External fire hydrants shall be located such that no portion of any building is more than 45 m from a hydrant and the external hydrants are not vulnerable to mechanical or vehicular damage.
14. **Green Belt Development:** In ADS revised green area has been submitted. The green area has been increased from 1,486.528 sqm (20%) to 2,715 sqm (36%), out of which 24% is on native/mother earth and rest 12% is landscape over basement.
15. **Greenbelt was submitted during presentation** Green Belt will be developed over an area of 7,492.64 m<sup>2</sup> which is 20% of total plot area. Total 100 Nos. of plants to be planted and 3m spacing between plants and it will be 2 tier plantations.
16. **Solid Waste Management:** During the operation phase, waste will comprise domestic as well as horticultural waste. The solid waste generated from the project shall be 104pprox., 634 kg per day (@ 0.5 kg per capita per day for residents, @ 0.15 kg per capita per day for the visitor, 0.25 kg per capita per day for the staff members and landscape waste @ 0.2 kg/acre/day).

S. No.	Description	Occupancy	Waste (kg/capita/day)	Generated
1.	Domestic Solid Waste			
	Residents	1116	0.5	
	Staff	80	0.25	
	Visitors	251	0.15	
2.	Horticultural Waste (0.148 acre)	@ 0.2 kg/acre/day		
3.	STP Sludge	Waste water x 0.35 x B.O.D difference/1000		
	Total	634 kg/d		

17. **Project cost:** The estimated Project cost is 90.12 Crores (Land and Development Cost) and cost form EMP is 31.659 lakhs (capital cost) and 16.914 lakhs(recurring cost).

COMPONENT	CAPITAL COST (INR LAKH)	RECURRING COST (INR LAKH/YR)
Sewage Treatment Plant	16.5	4.125
Rain Water Harvesting System	3	0.75



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

Solid Waste Management	1.268	0.317
Environmental Monitoring	0	9
Green Area/ Landscape Area	0.891	0.222
Others (Energy saving devices, miscellaneous)	10	2.5
Total	31.659	16.914

18. **Environment Consultant:** The Environment consultant M/s Grass Roots Research & Creation India (P) Ltd. Noida along with the proponent made a presentation on the proposal before the Committee.

19. The SEAC in its meeting held on 27-12-2023 the SEAC recommended the following:

A. **The proponent may be asked to submit the following for further processing of EC application:**

- i. The project proponent shall increase the greenbelt area up to 20% excluding Landscape.
- ii. The proposed water discharge is high. The PP shall revisit the water balance and reduce the water discharge by keeping a provision to increase the greenbelt.
- iii. There is a school nearby to the project site. Thus, the PP shall take additional safety measures for protecting school children from pollution particularly during construction phase.
- iv. Permission copy from Chief Engineer, Drainage Department for discharge of treated water and storm water to the nearest municipal drain.
- v. Layout of proposed internal drainage connecting to main municipal drain to be submitted along with necessary approval of the competent authority.
- vi. Copy of Structural Stability Certificate.
- vii. The PP shall ensure that the project site shouldn't be an obstacle in the operations of airport. Permission for the same shall be obtained from Airport Authority of India.
- viii. Source of water and its quantity during construction / project execution phase to be provided.

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

- i. Environmental settings of the project site.
- ii. Verify if the site is a flood prone area.
- iii. Construction activity if any started at the site and extent of construction activity.
- iv. Road connectivity to the project site.
- v. Drainage network at the site.
- vi. Discharge point for discharge of treated water and distance of the discharge point from the project site.
- vii. Any other issues including local issues.

20. 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
i.	The project proponent shall increase the greenbelt area up to 20% excluding Landscape.	As suggested by esteemed committee members, we have increased the green area from 1,486.528 sqm (20%) to 2,715 sqm (36%), out of which 24% is on native/mother earth and rest 12% is landscape over basement. Layout for the same is enclosed as <b>Annexure-I</b> .	The green area from 1,486.528 sqm (20%) to 2,715 sqm (36%), out of which 24% is on native/mother earth and rest 12% is landscape over basement.



# Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

ii.	The proposed water discharge is high. The PP shall revisit the water balance and reduce the water discharge by keeping a provision to increase the greenbelt.	We have increased the green area from 1,486.528 sqm (20%) to 2,715 sqm (36%), wherein, STP treated water will be reused for horticulture, thereby reducing treated water discharge. Revised water balance is attached as <b>Annexure-II</b> .	Fresh water requirement is now-106KLD. The treated effluent will be reused for flushing & horticulture. 68 KLD Surplus treated effluent will be discharged to external sewer in monsoon and 58 KLD in summer season.
iii.	There is a school nearby to the project site. Thus, the PP shall take additional safety measures for protecting school children from pollution particularly during construction phase.	As suggested by SEAC, we would develop a thicker greenbelt towards the northern side of project boundary to act as a barrier between site and the nearby school. During Construction phase, transportation of construction material and waste will be done through covered trucks and site will be barricaded to restrict dust emissions.	-
iv.	Permission copy from Chief Engineer, Drainage Department for discharge of treated water and storm water to the nearest municipal drain.	Receipt of payment done to EIDP is enclosed as <b>Annexure-III</b> . The discharge point for excess STP treated water will be connected to the trunk line as per EIDP or Shakti Nagar Main drain which is 150-200 meter from Project site.	complied
v.	Layout of proposed internal drainage connecting to main municipal drain to be submitted along with necessary approval of the competent authority.	Internal drainage plan showing enclosed as <b>Annexure-IV</b> .	complied
vi.	Copy of Structural Stability Certificate.	Vetting of Structural design has been done by Department of Civil Engineering, NIT Rourkela. Copy attached as <b>Annexure-V</b> .	complied
vii.	The PP shall ensure that the project site shouldn't be an obstacle in the operations of airport. Permission for the	Behrampur Airport is approx. 9.8 km in NE direction from project site. Since it is being used for Cargo operations with very limited operations. Further, our site falls in	Zoning map of Behrampur from Airport Authorities of India showing



## Minutes of 168<sup>th</sup> Meeting of SEIAA, Odisha held on 24.06.2024 & 25.06.2024

	shall be obtained from Airport Authority of India.	Grid 6, perpendicular to the airport funnel wherein, permissible top elevation is 182m, whereas, the maximum building height of our project is 41.6 m. Therefore, there will be no obstruction in the operation of flights due to our project and AAI NOC is not required. Zoning map of Berhampur from Airport Authorities of India showing permissible elevation level is enclosed as <b>Annexure-VI</b> .	permissible elevation level has been submitted.
ii.	Source of water and its quantity during construction / project execution phase to be provided.	Source of water during construction/project execution phase will be ground water and the quantity of the same is 75 KLD and 167 KLD respectively. CGWA NOC is enclosed as <b>Annexure-VII</b> .	NOC from CGWA has been obtained for 100KLD valid till 2027.

21. The proposed site was visited by the sub-committee of SEAC on **24.02.2024**. Following are the observations of the sub-committee:

- The site was clean and no construction exists. It is approachable by about 30 ft. road.
- There is no approach drain near to land. The PP explained that, they have deposited certain amount for development of drain. PP was asked to submit documentary evidence for drain with corresponding land and permission to discharge excess treated water.
- Permission for water supply to be submitted.
- Traffic corridors layout to be submitted.
- All other points asked during presentation to be complied.

Considering the information furnished and the presentation made by the consultant, **M/s Grass Roots Research & Creation India (P) Ltd., Noida** along with the project proponent,

**Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 01.05.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – 1** in addition to the following specific conditions.

- The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- The proponent shall obtain permission from concerned Fire Safety Authority.
- The proponent shall obtain permission for water supply.
- The proponent shall abide by Traffic corridors layout as per Traffic Study Report.
- Trees located within the project area shall be transplanted to alongside the boundary green development area.
- The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.



- ix) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- x) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.
- xi) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

**Decision of Authority: Approved**

After detailed deliberations, the Authority decided to grant **Environmental Clearance (EC)** with usual stipulated conditions as applicable for building and construction project along with SEAC recommended specific conditions

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA