PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE, ODISHA HELD ON 2ND DECEMBER, 2020

The SEAC met on 2nd December, 2020 at 03:00 PM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under the Chairmanship of Sri B.P. Singh. The following members were present in the meeting.

1.	Sri. B. P. Singh	-	Chairman
2.	Dr. D. Swain	-	Member
3.	Sri. J. K. Mahapatra	-	Member
4.	Prof. (Dr.) B.K. Satpathy	-	Member
5.	Er. K.R. Acharya	-	Member
6.	Dr. K.C.S Panigrahi	-	Member
7.	Prof. (Dr.) H.B. Sahu	-	Member

CONSIDERATION OF OLD PROPOSALS (COMPLIANCE RECEIVED):

(I) PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF COMMERCIAL PROJECT "HOTEL RASHMI PLAZA" AT JAYADEV VIHAR, PLOT NO. – J1, B/1334, BHUBANESWAR, DISTRICT KHORDHA OF M/S. HOTEL RASHMI PLAZA – AMENDMENT OF ENVIRONMENTAL CLEARANCE NOW PP HAS CHANGED THE BUILT-UP AREA FROM 28,278.31 SQMT TO 29021.73 SQ MT) OF M/S. HOTEL RASHMI PLAZA; RASMI RANJAN ROUTRAY – (AMENDMENT EC).

1. This is a proposal for amendment of Environmental Clearance of M/s. Hotel Rashmi Plaza for construction of commercial project "Hotel Rashmi Plaza" at Jayadev Vihar, Plot No. – J1, B/1334, Bhubaneswar, District Khordha of Rasmi Ranjan Routray.
2. M/s. Hotel Rashmi Plaza has obtained Environment Clearance from SEIAA, Odisha vide letter no. 8696/SEIAA, dated 10.12.2013.
3. The proposal got extension of EC for 7 years vide letter no: 6208/SEIAA, dated 09.11.2018.
4. The project proponent had completed the construction and BDA verified the construction work and it was found that the built up area has increased from 28,278.31 m^2 to 29,021.73 m^2. However, the plot area remains same i.e. 6515.38 m^2.
5. Building permission from BDA was obtained vide letter no. 10206/BDA, Bhubaneswar, dated 05.04.2019 for built up area - 29,021.73 m^2.
6. The project proponent has applied for amendment of EC due to increase in total built up area along with half yearly compliance report on EC conditions for the period October 2017 to March 2018.
7. The Commercial Project is located at Plot No. B/1334, Jayadev Vihar, Bhubaneswar, Odisha. The Co-ordinates of the project site are 20018'41.42" N & 85049'1.45" E. The project site is well connected through Nandankanan Road which is 0.33km away from the

project site towards East direction. The nearest National highway is NH-5 which is 2.05km away from the project site towards South South East direction. The nearest railway station is Mancheswar railway station, about 3.18 km away from the project site. The nearest airport is Bhubaneswar airport at 6.42 km from the project site.

8. The proponent made a detailed presentation on the proposal before the Committee.

9. The SEAC in its meeting held on Dt: 17.07.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by a site visit of the SEAC sub-committee.

10. The project proponent has furnished compliances as desired by the committee vide letter nil dated 09.09.2020 as follows.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Certified copy of latest half yearly compliance Report (October, 2019 to March, 2020) to Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar	A latest half yearly compliance report to Environmental Clearance condition submitted to MoEF&CC Regional office, Bhubaneswar. Copy attached **Annexure-I.**
(ii)	Detailed on which portion of construction activity, the deviation in built-up has taken	The deviation in built-up layout plan and BDA approval copy attached **Annexure-II.**
(iii)	Details of Greenbelt area. Details of Plantation previously and proposed to be carried out	Details of greenbelt area, Details of plantation Copy attached as **Annexure-III**
(iv)	Submission of revised layout showing green belt, parking area, DG set location and drainage map	Submitted the revised layout showing green belt, parking area, DG set location and drainage map Copy attached as **Annexure-III(a).**
(v)	Details of Parking area with regards to previously and proposed area may be furnished with percentage	Have Submitted the revised layout showing green belt, parking area furnished with percentage copy attached as **Annexure-III(b).**
(vi)	Details of Solar system for previously and proposed plan (with actually done and proposed to be done) and percentage of total power to be provided	Now our project is not in operation stage due to some hotel interior work going on. After completion of the interior work we shall go for the solar plan accordingly.
(vii)	A comparative statement of consumption of water, generation of waste water, solid waste generation etc. for approved built-up area and deviation built-up area	A comparative statement report of consumption of water generation of waste water, solid waste generation etc. for approved built-up area and deviation built-up area. In view of the above minor deviation of the built up area no pollution load like consumption of water generation of waste water , solid waste generation etc. rise in environment. Copy attached as **Annexure-V**.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(viii)	A short write up by project proponent why the proposal may not be considered under violation of EC Category	A short write up mentioning why that the proposal is not to be considered under violation of EC Category. Copy attached as **Annexure-VI.**
(ix)	Copy of approval letter along with building plan of BDA	Copy of approval letter along with building plan of BDA. Copy attached as **Annexure-VII**

11. The SEAC in its meeting held on Dt: 12.10.2020 decided decided to take decision on the proposal after a detailed site visit by the Sub-Committee of SEAC.

12. The sub-Committee of SEAC visited the project site on dated 19.10.2020 and following observations and recommendations were made:

A. <u>Green Belt:</u>

Observation: Green belt is not adequate. Decorative plants were found on the north side boundary earmarked for rain water harvesting pits and few decorative plants is in patches in the landscape were found on south front side, on east side of the boundary, permanent structure was found including DG set and on west side, canopy is under construction with steel structure.

<u>Recommendation:</u>

(i) The entire stretch of north side of the boundary with maximum possible width the covered in green belt with plantation of species and desired spacing in consultation with local forest authority.

(ii) On west side the canopy under construction be suitably reduced and the entire stretch of the boundary with maximum width be covered with green belt like north side.

(iii) On front south side, the land scaping be relocated and the entire side be converted to green belt.

(iv) On east side, the left and boundary side patches be converted to green belt.

(v) The total area under green belt shall not be less than 1360m^2 as specified in EC. Accordingly, they must submit the plan layout of plantation to meet the norms of coverage and an undertaking in form of a legal affidavit to execute it wither 3 months' time.

B. Renewable Energy:

Not found the proponent must make provision for it like solar power and the plan with execution time frame for 5% of the total project power consumption. They must submit details of solar systems and energy to be used along with time frame for the implementation.

C. Water Balance:

i) The proponent must submit the water balance (both for monsoon and non-monsoon period), they must also submit the water harvesting capacity & re-charging details vis-à-vis and the highest rainfall.

ii) The proponent stated that their source of water is underground & Municipality as well. They must write to BMC/PHED/ WATCO for maximum water supply and any shortfall quantity be met from underground only. The details & the permission / NOC letter of WR Deptt./ CGWA including letter of BMC /PHED/WATCO be submitted to this effect.

iii) The proponent should explore the possibility of full use of rain water harvesting in view of re-charging after treatment to make it domestic use worthy, using latest technology and submit e-techno-economic feasibility report within 06 months' time.

iv) The sound / noise from STP/Chiller plant is unbearable and they must take technically remedial measure to arrest the sound to bring it within the norms.

D. Parking:

They must submit the details of parking area and in terms of ECS/equivalent two wheelers with respect to hotel occupancy as well floating population from commercial establishment. The project proponent should ensure that there will be no parking on the public road.

i) To submit the order copy of Hon'ble High Court of Orissa and Supreme Court along with the letter of Chief Secretary on forest clearance as to the Kisam of the land on the hotel complex.

ii) Environmental clearance condition compliance wherever not complied within a definite time frame through an undertaking.

13. Now the project proponent has furnished compliances as desired by the committee as follows.

    i) Copy of Supreme court of India judgement & order CC 529/2008 in WP No-982/2007 of the High court of Orissa.

    ii) Copy of High court of Orissa, Cuttack WP@ no-982 of 2007.

    iii) Copy of High court of Orissa, Cuttack RVWPET No. 99/2007.

    iv) Copy of Govt. clearance regarding Forest diversion proposal against the allotment of Land, Order no- GAD-CA-4-MISC-0060-2015-16071 dt.11.06.19.

    v) Copy of Refusal order of supply water by The Executive Engineer PH Division II, Bhubaneswar.

    vi) Copy of sanction order for water supply connection by WATCO, Bhubaneswar dt.22.01.2020 order no-3756 AE(P)2020.

(II) PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PROPOSED " ANANYA PALM BEACH" RESIDENTIAL APARTMENT CUM GUEST HOUSE PROJECT IN PLOT NO - 268 (PART) AT MOUZA –SIPASURUBULI, TEHSIL – PURI SADAR, DISTRICT –PURI, OF M/S. PRABHUKRUPA REALITIES PRIVATE LIMITED WITH TOTAL BUILT UP AREA -32,859.52 SQM. (EC)

1. The proposal was considered for Environmental Clearance for proposed " Ananya Palm Beach" Residential Apartment cum Guest House Project in Plot No - 268 (part) at Mouza – Sipasurubuli, Tehsil – Puri Sadar, District –Puri, of M/s. Prabhukrupa Realities Private Limited with total built up area -32,859.52 sqm.
2. The proposed development is a Residential Apartment cum Guest House building. Location on Plot No - 268 (P) & Khata No- 2 Area- Ac- 2.29 Dec. Mouza - Sipasurubuli**,** Thana -Puri Sadar**,** Puri. Plot area of project is estimated to be 9267. 30 m^2 or 2.29 Acres.
3. The project comes under Building and Construction projects under schedule 8 (a) of the EIA Notification dated 14th September 2006.
4. The total project (Approved + Expansion) will be developed on the land measuring 9267.30 m2 or 2.29 Acres situated over Plot No.- 268 (P) & Khata No.- 2, corresponding to Consolidation Khata Nos.-17/1, 17/2, 17/3 and 17/6, Plot Nos. - 581/1446 (P), 581/1447 (P), 581/1448 (P), 581/1451(P). The coordinates of the project site are Latitude- 19°47'24.65"N and Longitude-85°47'3.20"E.
5. Connectivity - The nearest airport is Biju Pattnaik Airport, which is 50.40 km away from the project site and Puri railway station is 6.13 km away from the project site. Nearest Town is Puri Town – 3.26 Km and District Headquarters is Puri at – 5.6 Km from the project site.
6. Presently, the Proponent has permission for construction of 18596.33 m^2 area at Mouza Sipasurubuli, Puri vide PKDA letter no. 231 dated 29.03.2016 & are planning to increase

built-up area to 3,53,699.98 sft or 32,859.52 sqm (including services area, stilt and basement areas) and FAR Area is 25461.56 m2 (excluding services area, stilt and basement areas) as per PKDA letter no. 63 dated 07.02.2019.

7. The total plot area is 9267.3 sqm or 2.29 Acres. The total built-up area = 32,859.52 sqm (Including Basement & Stilt). Maximum height of building= 23.9 mt. Total no. of Dwelling Units= 470 Dwelling Units + 60 (Guest room) = 530 Units.
8. The total water requirement of project will be 248 KLD which includes the fresh water requirement of 169 KLD on daily basis and treated recycled water of 79 KLD reused for flushing. Daily basis water requirement 169 KLD which will be met through Supply water/Bore well.
9. Power Requirement: Maximum demand load is 2500 KVA and Connected load is 3980 KW Source of power supply is CESU & Solar lighting. Power Back Up is by DG sets of 1500 KVA (2 Nos. of 250 KVA & 2 Nos. of 500 KVA) silent DG Set.
10. The waste water in operation phase will be generated is 215 KLD & treated in a STP having capacity of 240 KLD . Treated waste water recovered is 194 KLD which will be reutilized in horticulture (9 KLD), general washing(10 KLD) and Flushing(79 KLD) etc. 96 KLD excess treated water in Dry season and 115 KLD in rainy season will be discharged to Public Sewer.
11. The solid waste generated from project will be mainly domestic in nature and the quantity of the waste will be 0.91 Ton/day. Solid wastes generated will be segregated into biodegradable (waste vegetables and foods etc.) and recyclable (papers, cartons, thermo-cool, plastics, glass etc.) components and collected in separate bins. The biodegradable organic wastes (303.8 Kg/day) will be treated inside the premises. Recyclable and non-recyclable wastes (607.7 kg/day) will be disposed through Govt. approved agency as per Municipal Solid Wastes (Management and Handling) Rules, 2016.
12. Total 6009.04 m^2 area will be provided for parking.
13. The green area will be developed approx. 20.11 % of the plot area (1863.39 m^2).
14. Rain water Harvesting: Total Rain water harvested collected at project site will be 8671.46 m^3 annually, taking average rainfall per hour is 40 cum. 7 Nos. Rain Water Harvesting structures are being proposed for artificial rain water recharge within the project premises.
15. The total cost of project is ` 54 Crores.
16. The proponent along with the consultant **M/s Visiontek Consultancy Services Pvt. Ltd., Patia, Bhubaneswar, Odisha** made a detailed presentation before the SEAC on 19.10.2020.

Considering the information / documents furnished by the proponent and presentation made by the consultant on behalf of the project proponent, the SEAC decided to take decision on the proposal after the proponent submits the following information/ documents followed by visit to the site by Sub-Committee of the SEAC.

(i) Clearance certificate from CRZ authority that the project doesn't fall in the CRZ area.

(ii) Letter from the Collector, Puri that the project area doesn't fall under the sweet water zone.

(iii) Details of Solar energy to be used in the project with necessary calculation.

(iv) Possibility of usage of wind energy other than solar energy for the project.

(v) Location of the DG set needs to be changed and accordingly revised layout map to be submitted.

(vi) ECS needs to be recalculated and submitted.

(vii) Copy of PKDA approval letter for phase-I project (18596.33 m2) issued vide letter no. 231 dated 29.03.2016 along with copy of application submitted to PKDA for approval of the phase-I project.

(viii) Copy of PKDA approval letter for expansion project along with copy of application submitted to PKDA for approval of the expansion project

(ix) Detail Water Balance diagram with calculation and Waste Water Management details to be submitted.

(x) Status of permission for drawal of ground water from Water Resources Department, Govt. of Odisha and NoC from CGWA.

(xi) Detailed justification that the expansion project will not be treated as a violation case.

(xii) Undertaking that the natural sand dune shall not be disturbed due to project activity.

(xiii) Land schedule and kisam of land.

(xiv) Present status of construction undertaken and the period of construction with details of approval obtained for the same from PKDA.

17. The Sub-Committee of SEAC conducted site visit on 11.12.2019. The Sub-Committee has observed the following:

    a) Environmental Clearance was required to be sought by the project proponent in view of increase of original built up area from 18596.33 m^2 to 32,859.52 m^2.

    b) The core structure (G+7) on the original proposed area is almost complete. But, the proponent stated that the construction is limited to PKDA approval area i.e. less than 20,000 m^2 built-up area.

    c) But construction of drains, rain water harvesting and recharging pit, STP, housing for DG sets has not started. The proponent showed the location in the premises identified for the purpose.

    d) The proponent stated that they would keep 6 ft. width space throughout the boundary for greenbelt development that would meet 20% norm and 20 ft. road width adjacent to it for free movement of fire tender.

e) The proponent stated that they will have two bore wells to meet their water requirement i.e. source of water is ground water. They also stated that they have alternative source i.e. Puri Municipality water. They will make necessary water treatment of the raw water to be supplied by the Municipality or Bore Wells for the domestic consumption. In the event of supply of water by Municipality, they will not use ground water.

f) The premises of the housing complex is a low lying area due to construction of Naba Kalebara National Highway alongside the plot and there is a possibility of water logging during monsoon. The proponent stated that they will discharge both surplus treated waste water and runoff water during monsoon to the drain to be built up alongside the nearest NH under construction. In case, the construction of drain of NH is not done / completed by the time their complex is ready for possession, they will discharge the same to OPWD drain located at about 700-800 (as stated) meters away from the project site.

18. The Sub-Committee recommended that the following information / documents are required to be submitted by the proponent before consideration of Environmental Clearance.

a) Proposed plan approval copy of PKDA for additional built-up area for increase to 32,859.52 m^2. The project proponent need to submit an undertaking in form of a legal affidavit that they have not constructed built-up area ≥ 20,000 m^2.

b) Certificate from appropriate authority that the project site does not fall within Sweet Water Zone of Puri.

c) NoC from CGWA and corresponding permission from Water Resources Department, Govt. of Odisha for use of required ground water in-case they draw water from ground and alternatively, explore the possibility of use of water of Puri Municipality raw water after necessary scientific treatment with such facilities at the project site. The project proponent is also required to submit the test report of water quality of Municipality raw water and the water quality after due treatment including the description of the process of such treatment.

d) Permission and time frame of the construction of drain alongside the adjacent NH under construction for allowing the proponent to discharge the treated waste water as well excess runoff water during monsoon, excess beyond recharging from NH Authority. The construction of drains must synchronize with the completion of the construction of the Housing Project.

Alternatively, permission from PWD, Odisha that existing drainage system about 700-800 meters (as stated) away from the project site to take the additional load of treated waste water and runoff water as the case may be as mentioned above. Besides, ownership of the land between project site and the existing drainage of PWD need to be in favour of the project proponent either through purchase or lease or “Right to Use” for the owner of the said land to lay the requisite pipelines / infrastructure as required.

e) ‘NoC’ from OCZMA that it does not fall within CRZ limit or as necessary under the said law.

19. SEAC in its meeting held on 04.01.2020 decided to take decision on the proposal after receipt of the information / documents / clarification on the observation / recommendations made by the sub-Committee of SEAC during the site visit on 11.12.2019 in addition to information / documents / compliances sought by SEAC vide letter no. 352/SEAC- (Misc)-28, dated 05.11.2019.

20. The project proponent has furnished compliances as desired by the committee vide letter no: PRPL/065/2019-20 dated 10.01.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Clearance certificate from CRZ authority that the project doesn't fall in the CRZ area.	Copy of application dated 02.08.2019 is annexed herewith as Annexure – 1.	Clearance certificate from CRZ authority that the project doesn't fall in the CRZ area has to be given.
(ii)	Letter from the Collector, Puri that the project area doesn't fall under the sweet water zone.	Copy of application dated 10.12.2019 is annexed herewith as Annexure -2.	Letter from the Collector, Puri that the project area doesn't fall under the sweet water zone has to be given.
(iii)	Details of Solar energy to be used in the project with necessary calculation.	The breakup sheet of total electrical consumption and solar energy calculation is attached herewith as Annexure -3.	-----
(iv)	Possibility of usage of wind energy other than solar energy for the project.	Since the roof top of the building is used for parking, installation of wind mills is not possible.	-----
(v)	Location of the DG set needs to be changed and accordingly revised layout map to be submitted.	Revised layout with location of DG set is attached herewith as Annexure -4.	---------
(vi)	ECS needs to be recalculated and submitted.	The Off Street Parking Space has been provided as per Puri Konark Development Authority (Planning and Building Standards) Regulations, 2017. An area of 64,680,90 sqft of parking space has been provided as mentioned in PKDA letter dated 07.02.2019.	---------
(vii)	Copy of PKDA approval letter for phase-I project (18596.33 m2) issued vide letter no. 231 dated 29.03.2016 along with copy of application submitted to PKDA for approval of the phase-I	Permission letter no. 231/PKDA dated 29.03.2016 has been superseded by letter no.63/PKDA dated 07.02.2019. A copy of application submitted to PKDA for approval of the project is annexed herewith as Annexure -5.	Copy of PKDA approval letter for phase-I project (18596.33 m2) issued vide letter no. 231 dated 29.03.2016 has to be furnished.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	project.		
(viii)	Copy of PKDA approval letter for expansion project along with copy of application submitted to PKDA for approval of the expansion project	Copies of application submitted to PKDA for revision of building plans of the project and permission letter issued by PKDA vide No. 63 dated 07.02.2019 are annexed herewith as Annexure - 6 & 7 respectively.	---------
(ix)	Detail Water Balance diagram with calculation and Waste Water Management details to be submitted.	Detail water Balance diagram with calculation and Waste Water Management details is annexed herewith as Annexure – 8. A copy of application for permission to discharge excess treated water to public sewer is annexed herewith as Annexure -9.	---------
(x)	Status of permission for drawal of ground water from Water Resources Department, Govt. of Odisha and NoC from CGWA.	Copy of application dated 10.12.2019 is annexed herewith as Annexure-10.	---------
(xi)	Detailed justification that the expansion project will not be treated as a violation case.	As apparent from PKDA letter dated 07.02.2019, the total area including “Existing “and “Approved but not constructed” is 1,77,527.35 sqft or 16,492.69 sqm. Since the total approved built-up area prior to expansion is less than 20,000 sqm, it did not require an Environment clearance. It may please be noted that the total constructed area as on date is 1,08,676.96 sqft or 10,096.33 sqm which is mentioned as “Existing” in the PKDA permission letter dated 07.02.2019.	---------
(xii)	Undertaking that the natural sand dune shall not be disturbed due to project activity.	Copy of undertaking is annexed herewith as Annexure -11.	---------
(xiii)	Land schedule and kisam of land.	The Project comprises of 2.29 acres of land in respect of Khata No.2, Plot No. 268 (Part) in Sipasurubuli village, Puri. Conversion fees of Rs.6,87,000/-, equivalent to conversion fees	---------

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
		required under section 8A of the OLR Act, has been deposited with PKDA u/s 119(3) of The Odisha Development Authorities (Amendment) Act, 2015. Please see page 4 of the permission letter dated 07.02.2019.	
(xiv)	Present status of construction undertaken and the period of construction with details of approval obtained for the same from PKDA.	As on date, an area of 1,08,676.96 sqft (or 10096.33 sqm) has been constructed which is mentioned as "Existing" in PKDA letter dated 07.02.2019.	---------

21. The proposed site was visited by the Sub-Committee of SEAC on 11.12.2019. The project proponent has furnished compliances of site visit as desired by the committee vide letter no: PRPL/068/2019-20 dated 21.01.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Proposed plan approval copy of PKDA for additional built-up area for increase to 32,859.52 m2. The project proponent need to submit an undertaking in form of a legal affidavit that they have not constructed built-up area ≥ 20,000 m2.	Copy of plan approval issued by PKDA vide No. 63 dated 07.02.2019 is annexed herewith as Annexure – 1. An undertaking in form of a legal affidavit that they have not constructed built-up area ≥ 20,000 m2 is enclosed as Annexure – 2.	------
(ii)	Certificate from appropriate authority that the project site does not fall within Sweet Water Zone of Puri.	Copy of the application dated 10.12.2019 is annexed herewith as Annexure – 3.	Certificate from appropriate authority that the project site does not fall within Sweet Water Zone of Puri has to be submitted.
(iii)	NoC from CGWA and corresponding permission from Water Resources Department, Govt. of Odisha for use of required ground water in-case they draw water from ground and alternatively, explore the possibility of use of water of Puri Municipality raw water after necessary scientific treatment with such	Copies of NoC from CGWA and application dated 10.12.2019 for corresponding permission from Water Resources Department, Govt. of Odisha, are annexed herewith as Annexure – 4 & 5 respectively. We have obtained consent	------

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	facilities at the project site. The project proponent is also required to submit the test report of water quality of Municipality raw water and the water quality after due treatment including the description of the process of such treatment	from PH Division to supply raw water to the project and a copy of the NOC dated 18.05.2018 is enclosed herewith as Annexure – 6. The raw water, when available, will be treated at our cost before use and necessary scientific treatment processes will be adopted.	
(iv)	Permission and time frame of the construction of drain alongside the adjacent NH under construction for allowing the proponent to discharge the treated waste water as well excess runoff water during monsoon, excess beyond recharging from NH Authority. The construction of drains must synchronize with the completion of the construction of the Housing Project. Alternatively, permission from PWD, Odisha that existing drainage system about 700-800 meters (as stated) away from the project site to take the additional load of treated waste water and runoff water as the case may be as mentioned above. Besides, ownership of the land between project site and the existing drainage of PWD need to be in favour of the project proponent either through purchase or lease or "Right to Use" for the owner of the said land to lay the requisite pipelines / infrastructure as required.	A copy of application for permission to discharge excess treated water to public sewer is annexed herewith as Annexure – 7.	This specific condition as sought by SEAC is required to be submitted before operation of the project (A legal affidavit for this; need to be submitted).
(v)	'NoC' from OCZMA that it does not fall within CRZ limit or as necessary under the said law	Copy of application dated 02.08.2019 is annexed herewith as Annexure – 8.	'NoC' from OCZMA that it does not fall within CRZ limit or as necessary under the said law to be obtained.

22. The SEAC in its meeting held on Dt:: 07-02-2020 decided to take decision on the proposal after the proponent submits the certain information / documents.

23. The project proponent has furnished compliances as desired by the committee vide letter no: PRPL/174/2020-21 dated 17.09.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Clearance certificate from CRZ authority that the project doesn't fall in the CRZ area has to be given.	Copy of the letter issued by ORSAC vide No. 2750 dated 16.09.2020 is annexed herewith as **Annexure - 1.**	The letter has been written by ORSAC to Member Secretary, Odisha Coastal Zone Management Authority (OCZMA). However, OCZMA has not clarified any. Letter from OCZMA to be submitted.
(ii)	Letter from the Collector, Puri that the project area doesn't fall under the sweet water zone has to be given.	Copy of the letter issued by District Office, Puri vide No. 799 dated 23.03.2020 is annexed herewith as **Annexure - 2.**	-----
(iii)	Copy of PKDA approval letter for phase-I project (18596.33 m2) issued vide letter no. 231 dated 29.03.2016 has to be furnished.	Approval letter no. 231/PKDA dated 29.03.2016 has been superseded by letter no. 63/PKDA dated 07.02.2019. A copy of the letter dated 07.02.2019 is annexed herewith as **Annexure – 3.**	Copy of PKDA approval letter no. 231 dated 29.03.2016 has to be furnished.
(iv)	A legal affidavit to be submitted that the permission from PWD, Odisha shall be obtained from concerned department to discharge of excess treated water to public sewer before operation of the project.	An undertaking in form of a legal affidavit is enclosed herewith as **Annexure - 4.**	Special condition to be stipulated in EC as a legal affidavit has to be submitted by the proponent with effect as sought by SEAC.

24. The SEAC in its meeting held on Dt:12-10-2020 decided to take decision on the proposal after receipt of the following information / documents / clarification from the proponent.

25. The project proponent has furnished compliances as desired by the committee vide letter no: PRPL/322/2020-21 dated 28.10.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Copy of PKDA approval letter for phase-I project (18596.33 m2) issued vide letter no. 231 dated 29.03.2016 has to be furnished.	A copy of the approval letter vide no. 231 dated 29.03.2016 is annexed herewith as **Annexure - 1**	Complied
(ii)	Regarding applicability of CRZ	A copy of the letter issued	complied

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	clearance for the project, the letter has been written by ORSAC to Member Secretary, Odisha Coastal Zone Management Authority (OCZMA). However, OCZMA has not clarified any. Letter from OCZMA to be submitted.	by OCZMA vide No.226/OCZMA dated 20.10.2020 is annexed herewith as **Annexure - 2**	

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Visiontek Consultancy Services Pvt. Ltd., Patia, Bhubaneswar, Odisha**, the SEAC recommended for grant of Environmental Clearance for the project valid for a period of 7 years with stipulated conditions as per **Annexure –A**.

(III) PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR KURLUBHATA DECORATIVE STONE MINES OVER AN AREA 17.676 HA AT VILLAGE-KURLUBHATA, TAHASIL-TITLAGARH, DIST-BALANGIR OF M/S KAMODGIRI POLYSPIN PVT. LTD – EXTENSION OF EC.

1. This proposal is for Extension of validity of Environmental Clearance for Kurlubhata Decorative stone Mines over an area 17.676 ha at village-Kurlubhata, Tahasil-Titlagarh, Dist-Balangir of M/S Kamodgiri Polyspin Pvt. Ltd.
2. Environmental Clearance was granted by the State Environmental Impact Assessment (SEIAA), Odisha vide Letter no. 3185/SEIAA/5132/1789-NCM-2017dt.24.06.2017 for a period of 5 years.
3. The Kurlubhata Decorative stone Mines over an area 17.676 ha at village-Kurlubhata, Tahasil-Titlagarh, Dist-Balangir, Odisha was executed in favour of of M/S Kamodgiri Polyspin Pvt. Ltd, on 20.07.2000 for a period of 10 Years.
4. Mining Plan was approved on 29.06.2016 by Directorate of Mines, Govt. of Odisha which was valid up to 30.03.2020 vide letter No. 3185/SEIAA/5132/1789-NCM/01-2017.
5. The Mines obtained Consent to Operate via ref.No.974/III CON (OPERATE)/79/2018-19 on dt.26.02.2020.
6. The lessee has applied for renewal, which has ultimate extended up to 19.07.2030, under Rule-8A, OMMC Rules 2016, vide letter No. 3572/IV(DS) SM-18/2019/SM, Bhubaneswar, dated-07.05.2020.
7. The Mining Scheme along with Progressive Mine Closure Plan is submitted to Joint Directorate of Mines, Govt. of Odisha, which is valid up to 2020-25.
8. Though we have obtained the EC on 24.6.2017 from SEIAA, but due to non renewal of mining lease, the mining operation could not be carried out from 24.06.2017 to till date.
9. The entire Mining Lease area of 17.676 hectares comprises of non-forest land.

10. There is no sensitive ecological habitat like National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves within 10 km radius of ML area. No Schedule I species are found within the study area.

11. The Environment consultant **M/s Envomin Consultant (Pvt.) Ltd**., Bhubaneswar along with the proponent has made a briefing on the proposal before the Committee on 30.09.2020.

12. The SEAC in its meeting held on Dt: 30.09.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent.

13. The project proponent has furnished compliances as desired by the committee vide Ref no: KPPL/20-21-SEAC-02 dated 12.11.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar	The compliance of EC conditions along with receipt letter of the MoEF&CC, Regional Office, Bhubaneswar is attached as Annexure -1	Certified copy of half-yearly compliance report to EC conditions of MoEF&CC, Govt. of India has not been furnished.
(ii)	Copy of approved Lease deed valid upto 2030	The copy of approved lease deed is attached as Annexure - 2	---
(iii)	Copy of approved Mining Plan for lease period including scheme of mines for 5 years progressive mine closure plan and final mine closure plan	The approved Scheme of mining with PMCP is valid 31.03.2025 is attached as Annexure – 3.	---
(iv)	Document of execution of lease deed	The copy of lease deed executed on 23.09.2020 is attached as Annexure-4.	---
(v)	Details of past year-wise production	The mining work has not been resumed till date due to lack of renewal of mining lease. Accordingly the past year production figure is nil.	---

14. The SEAC observed that though the proponent has furnished hard copy of compliance report, but same has not yet been uploaded in the online system. Moreover, the proponent has also not submitted certified copy of MoEF&CC, Govt. of India half-yearly EC conditions compliance report.

After detailed discussion, the SEAC decided to take decision on the proposal after the proponent upload the compliance in online system as well as submit the certified copy of MoEF&CC, Govt. of India half-yearly EC conditions compliance report.

(IV) PROPOSAL OF ENVIRONMENTAL CLEARANCE OF ROURKELA SMART CITY LIMITED FOR CONSTRUCTION OF ROURKELA ONE (COMMAND AND CONTROL CENTRE, AUDITORIUM, CONVENTION CENTRE AND TRIBAL MUSEUM) AT – ROURKELA,

ODISHA UNDER SMART CITY MISSION (BUILT UP AREA - 26956.71 SQMT) OF SRI YEDDULA VIJAY (CHIEF EXECUTIVE OFFICER) - EC

1. This is a proposal for Environmental Clearance of M/s. Rourkela Smart City Limited for construction of Rourkela one centre project (Command and Control Centre, Auditorium, Convention Centre and Tribal Museum) at Rourkela, Odisha under Smart City Mission with total built up area - 26956.71 m^2.
2. The Rourkela one centre is proposed on a vacant land of 8.43 acres in the western part of the Rourkela smart city ABD area boundary near the Hockey Chowk on the Link road connecting Rourkela Barkote Road and Ring Road. The land is under the ownership of Rourkela Municipal Corporation (RMC).
3. This proposed " Rourkela one centre " project comes under Building and Construction projects under schedule 8(a) of the EIA Notification dated 1st December, 2009 – S.O.3067 (E) - Amendment of EIA Notification dated 14th September, 2006).
4. The project site will house: **Command and Control Centre** – Provide Government Services such as birth / death registration, property tax collection, etc.; City Surveillance, Disaster Management & Response, Data Recovery, etc. **Auditorium and Conventional Centre** – Showcasing local tradeshows, meetings, yoga and other recreational activities. **Tribal Museum** – Showcasing the tribal culture, craft exhibition to promote and preserve tribal & folk arts. **Common Basement Parking Facility** under CCC building and Auditorium & Convention Centre.
5. Total land area of the project is 34,111 m^2 or 8.43 Ac. and Ground Coverage area is 6,915 m^2 (20.3% of Plot Area). Total Built Up Area: 26956.71 m^2. Max. Height of Building 22 m.
6. The proposed site is located at Mouza: Rourkela, Tahasil: Rourkela, District- Sundargarh, Odisha. The Geographical co-ordinate of the project site is: Latitude : 22° 13' 22.58"N Longitude : 84°48' 32.05"E.covering in Topo Sheet No.F45G16
7. The project area is 0.6km. from NH-143. The nearest airport is Veer Surendra Sai Airport which is 114 km away from the project site. Panposh railway station is 1.3 km away from the project site. Brahmani River is about 0 8 km from the project boundary. Reserve forest nearby are Butukrpiri Reserve Forest 2 92 km away and Durgapur Reserve Forest 1 58 km away.
8. **Meteorology:** The temperature of Rourkela varies between 46.3^o C during summer (April - July) to 7^o C during winter (November to January). The humidity is high in the summer months. The wind flows in summer from south west with a speed of 35- 40 km/hr and in winter season from north east with a speed of 18-24 Km/hr. The annual average rainfall is 128.8 cm.
9. The Building Details of The Project:

Particulars	Existing	Proposed
Tribal Museum (G+2)	1747	4481
Auditorium & Convention Centre (G+2)	4352	9542
Command & Control Centre (G+5)	815	4360
Basement (Utility Services and 235 ECS parking)	8574	8574

10. The construction proposed shall be barrier free by provision of ramps and elevators. The proposed site plan is planned along the diagonal imaginary axis which connects the Open-Air Theatre in the North-west and the Auditorium and Convention Centre in South-east extended to the recreation space and plazas in the same direction. The overall site plan is symmetrical along this axis.
11. The Command-and-Control Centre in the South-west shall be **G+5 RCC** building with a segregation of space and activities floor-wise.
12. The central **1350** capacity Auditorium and Convention Centre will be shared by all buildings thus it is placed in the center connected to other buildings in periphery with radial roads / axis. Acoustic treatment of walls is proposed for Auditorium which bar the noise from going out during event days.
13. The Tribal Museum proposed building form is inspired from the conch shell, the building is placed in the North-East location of site adjacent to the central axis. The proposed building is of **G+2** floors.
14. The circulation within is planned in the form of a circular ring road running through the periphery of the site and catering to all the components of the site by radial roads. Clockwise movement has been proposed within site. The internal roads are proposed to be of 6m width. The total internal road length within the Rourkela One complex is 1085m (1.1 km).
15. **Power Requirement:** The daily power requirement for the proposed complex is preliminarily assessed as 2.12 MVA source by WESCO existing overhead 33kV line. 2 Nos. of 625kVA DG set with Synchronizing panel for CCC, 1 No. of 750kVA DG set with AMF panel for Auditorium & Conventional Centre, 1 No. of 600kVA DG set with AMF panel for Tribal Museum buildings. Solar roof top system, to be taken up in a separate tender, ensuring usage of green energy shall be provisioned to meet atleast 10% of the energy demand.
16. **Water Requirement:** Fresh make up of 84 m^3/day will be required for the project which will be sourced from PHED, Rourkela. The existing water requirement of the project is 108.55KLD, out of which 72.89KLD of treated water from in house STP will be reused. The freshwater demand of 35.66KLD will be met from water supply department of PHED. Dual piping system for usage of recycled water has been provisioned
17. Rain Water will be harvested through 2 no. of recharging pits.
18. **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4).
19. **Solid Waste Management:** Total solid waste generation is 1.18 kg/day. Biodegradable/ Compostable waste generation will be 0.708 kg/day. Solid waste shall be stored in separate garbage bin and send to approved recyclers. Around 73.1 kg/day of STP sludge will be generated.
20. Parking space equivalent to 290 Equivalent Car Space (ECS) is provided of which 235 ECS is in basement and 55 ECS is on surface parking.
21. The total green area provided for the project is around 11240 Sqm i,e, approximate 34% of total plot area.
22. The project cost is Rs.116.76 Crores including taxes.
23. The Environment Consultant **M/s Tata Consulting Engineers Ltd.** along with the proponent made a detailed presentation on the proposal before the Committee on 17.07.2020.

24. The SEAC in its meeting held on Dt: 17.07.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by the site visit of the sub-Committee of SEAC.

25. The project proponent has furnished compliances as desired by the committee vide letter no: 1722 dated 30.09.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Certificate from concerned DFO, to verify the status of land (Forest / Non-forest).	Attached as Appendix 11	Complied
(ii)	(i) Percentage of green cover/greenbelt excluding landscape green coverage, showing also the coverage dimensionally alongside the boundary	Section 4.1.2 (pg. no. 47) 11483.1 m^2 (22.21%) will be developed as green belt	Specific condition to be stipulated in EC.
(iii)	Detailed information regarding Public and semi-public use	Attached as Appendix 15	Specific condition to be stipulated in EC.
(iv)	Land schedule indicating plot no. and khata no. with kissam of land	Attached as Appendix 17	--
(v)	Detail Parking Area calculation w.r.t to total no. of visitors and the basis of ECS in reference to maximum number of visitors on any occasion and provision of parking area. Adequacy of parking space keeping in view max visitors to be justified	Section 2.5.1 to 2.5.5 (pg. no. 19 to 23)	Specific condition to be stipulated in EC.
(vi)	Detailed design and specification of STP with provision of buffer in design capacity	Section 3.2.1 (pg. no. 32)	Specific condition to be stipulated in EC.
(vii)	Detailed layout of existing and proposed drains and Storm Water Management	Section 3.3 (pg. no. 40) & Appendix 7 & 14	Specific condition to be stipulated in EC.
(viii)	Details of model followed in Traffic Density Study in the project and comparison of the result of the study with reference to standard norms of the model chosen	Section 2.5.6 & 2.5.7 (pg. no. 24)	Specific condition to be stipulated in EC.
(ix)	Width of entry and exit shall be provided with justification during maximum visitors	2.5.1 & 2.5.2 (pg. no. 19-20), Section 2.5.8 (pg. no. 25)	--
(x)	Revised layout showing DG sets location w.r.t wind direction	Appendix 9	--
(xi)	Revised water balance for monsoon period and quantity of	Section 3.1 (pg. no. 28) & Appendix 12 & 13	--

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	treated water to be discharged to drain		
(xii)	Detailed usage of water in Irrigation	Section 3.1(d) (pg. no. 29)	--
(xiii)	Details of Rain water harvesting. Adequacy of two rain water harvesting pits for project shall be explained. It will be desirable to have more rain water harvesting pits	Section 3.4 & 3.5 (pg. no. 40 and 42)	Specific condition to be stipulated in EC.
(xiv)	Detailed usage of solar/ renewable energy (percentage wise)	Section 3.7.2 (pg. no. 45)	Specific condition to be stipulated in EC.
(xv)	Copy of approval letter along with approved building plan of Rourkela Development Authority	Now the building plan approval authority is changed from RDA to RMC (Rourkela Municipal Corporation). The proposal is submitted to RMC, the approval is under progress. Receipt of submission to RMC is attached in Appendix-18	Specific condition to be stipulated in EC.

26. The sub-committee of SEAC visited the site and the sub-Committee recommended for grant of Environmental Clearance.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Tata Consulting Engineers Ltd**, the SEAC recommended for grant of Environmental Clearance for the project valid for a period of 7 years with stipulated conditions as per **Annexure –B**

(V) PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR BHAGABANPUR DECORATIVE STONE MINES OVER AN AREA 2.124 HA. AT VILLAGE-BHAGABANPUR, TAHASIL-KUKUDAKHANDI, DIST-GANJAM OF SRI BHIMSEN NANDA - EC

1. This proposal is for Extension of validity of Environmental Clearance for Bhagabanpur Decorative Stone Deposit over an area 2.124 ha at village-Bhagabanpur, Tahasil-Kukudakhandi, Dist-Ganjam of Sri Bhimsen Nanda.

2. Environmental Clearance was granted by the State Environmental Impact Assessment (SEIAA), Odisha vide Letter no. 617/SEIAA / SEIAA-1/12, dated 04.03.2013. Further the Environment Clearance was granted for the period from 2015-16 to 2019-20. Vide Letter No 1744/168/16/ DEIAA dated 20.12.2016 and Letter no 37/DIEAA dated 08.06.2017.

3. The Bhagabanpur quarry lease for decorative stone 2.124 Hectares in village Bhagabanpur, Tahasil - Kukudakhandi (Erstwhile Berhampur), District Ganjam, Odisha was executed in favour of Sri Bhimasen Nanda on 23.03.2005 for a period of 20 Years and as such the lease period is valid upto 23.03.2025.

4. The EC was granted for 5 years i.e. upto 31.03.2020. As per MoEF&CC circular J-11011/15/2012-IA(II)M dated 20.03.2015 the validity of EC will be for 30 years irrespective of mining lease renewal.
5. As per EC amendment letter no. 371/DEIAA dated 8.6.2017 no mining activity has been carried out beyond 30m below the ground level.
6. The project proponent made the application for extension of EC.
7. Consent to operate obtained from Odisha state pollution control board vide letter no 2036/CTO-01/2013 dated 17.06.2016.
8. No forest land involved in the lease area.
9. The lease area comes within 500m radius of Decorative stone mines of M/s Neelachal Granites Pvt. Ltd which has already obtained EC.
10. The proponent made a detailed presentation before the SEAC on 08.09.2020. The SEAC decided to take decision on the request of the proponent after the proponent submits certain information / documents
11. The SEAC in its meeting held on Dt: 08.09.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent.
12. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar	Compliance report for the period of October 2019 to March 2020 has been submitted at SEIAA, Odisha and MoEF & CC regional office, Bhubaneswar. Copy of the compliance report attached for reference. **Annexure -1**	---
(ii)	Certificate from the concerned Mining Officer indicating no. of other Mines within 500m from periphery of the mines	Copy of the letter from mining officer regarding the presence of the other mines within 500m from periphery of the mines attached. **Annexure- 2**	The certificate reveals only one mine in the name of Neelachal Granite (P) Ltd over lease area of 2.141 ha. do exists within 500 mtrs.
(iii)	Certificate from concerned DFO about DLC land involved in the lease area	Certificate from DFO regarding DLC land involved in the lease area attached. **Annexure -3**	The lease area is not included in the DLC list.
(iv)	Copy of Mining lease and its validity period	Copy of the mining lease document and validity period	The lease period is valid upto 23.3.2025.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
		attached. **Annexure -4**	
(v)	Past year wise production status	Past year wise production details attached. **Annexure- 6**	Furnished.

Considering the information / documents furnished by the proponent, the SEAC recommended for extension of validity of EC for a period upto 23.3.2025 (i.e. upto the expiry of lease period).

(VI) PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF 100 SEATED NEW GOVT. MEDICAL COLLEGE OVER AN AREA 26.24 ACRES AT BHANGABARI, MOUZA-BHANGABARI, BHAWANIPATNA, DISTRICT - KALAHANDI OF CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER; MR. JAGULAL AGRAWAL WITH BUILT UP AREA 72,165 M^2 – EC.

1. This is a proposal for Environmental Clearance for Construction of 100 seated New Govt. Medical College over an area 26.24 Acres at Bhangabari, Mouza-Bhangabari, Bhawanipatna, District - Kalahandi of Chief District Medical & Public Health Officer; Mr. Jagulal Agrawal
2. The Director Medical Education & Training (DME & T), Govt. Of Odisha through the Chief District Medical Officer & Public Health Officer (Project Proponent), Kalahandi has proposed to establish a 100 seated New Govt. Medical College' at Bhangabari, Mouza-Bhangabari, PO- Uditnarayanpur, Bhawanipatna, District- Kalahandi, Odisha.
3. The proposed project will be developed by Tata Projects Limited. The college will have hostel facility for providing accommodation to nurses, girls and boys students in the campus.
4. The project falls under Category "B", Project or Activity 8 (a) as per schedule of EIA Notification dated 14th Sep, 2006, as amended from time to time.
5. The site is located on a Govt. land measuring 106189.51 Sq.mt / 26.24 Acres on revenue Plot Nos.- 437, 438, 443,444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461,462, 464, 465, 466, 470, 472, 473,475, 477, 479, 700/1280, 461/1281, 446/1284, Khata No.137 at Mouza- Bhangabari, Po - Uditnarayanpur, Bhawanipatna, District- Kalahandi, Odisha.
6. The Geographical co-ordinate of the project site is: Latitude: 19°55'46.80"N Longitude: 83°08'49.20"E covering in Topo Sheet No. E44F1 & F44X4. with an average altitude of 244 m above MSL. A 33 m road abuts site in North direction which connects it to SH-16 in East direction at 200 m. Nearest Railway line is connecting from Junagarh – Kathajanipadar is 0.2 km to the Project Site. The nearest railway station is located at Bhawanipatna RS which is 1.3 km.
7. Bhawanipatna is major town at a distance of 2.9 km. The National Highway (NH-201) connecting Bhawanipatna – Borigumma is located at a distance of about 2.8 km. The State Highway (SH-52) connecting Bhawanipatna – Dharmagarh is located at a distance of about 2.5 km. The State Highway (SH-16) connecting Bhawanipatna – Khariar is located at 0.2km

to the Project Site. The State Highway (SH- 6) connecting Bhawanipatna – Badchiching is located at a distance of about 2.6 km in SE.

8. Nearest wild life sanctuaries, national parks, elephant/tiger reserves - Karlapat Wild Life Sanctuary - 4.4 km (Project boundary to wildlife sanctuary boundary) and 15 km by road from Bhawanipatna. Nearest Reserve Forest is Dhangra Dhangri – 3.3 km. Nearest nala is Pipale Nala – 0.1km & Bulat Nala – 1.1 km
9. Nearest Settlement from the Project Site is Bhangabari 0.5 km from project site.
10. The Project has received Building permission approved by Office of The Special Planning Authority, Bhawanipatna vide letter No.IB-105/19 509/BPTSPA dated 18.03.2020.
11. Total land area of the project is 26.24 Ac. Total Built Up Area: 72,165 m2. The project will involve development of academic blocks of S+3 floors (4 Nos.), S+4 floors (3 Nos.), S+5 floors (3 Nos.), S+6 floors (2 Nos.), auditorium (G+1), hostel, staff quarters, doctor's room and services.
12. The Detailed Area Statement of the project is mentioned in the table:

Sl. NO.	PARTICULARS	AREA
1.	Total Site Area	34.98 Ac.
2.	Area for Teaching Hospital (EC granted)	8.74 Ac.
3.	Area for Medical College	26.24 Ac.
4.	Total Built up Area	72165m^2
5.	FAR Achieved = 0.68	
6.	Total Ground Coverage (i.e. 16.96 % of Plot Area)	18012.02m^2
7.	Parking Provided (i.e. 30.10 % of Total BUA)	21721.66m^2
8.	Total Green Belt Space (Provided) (i.e. 36.96 % of Plot Area)	39252.08m^2
9.	Common Facilities and Amenities (Provided) (i.e. 5.79 % of Plot Area)	6153.16m^2
10.	No. of Trees provided	1460

13. **Total Water Requirement:** 433 KLD, which will be sourced from borewell. Domestic water requirement is 289 KLD. Fresh water requirement is 186 KLD. Wastewater Generation is 250 KLD. The wastewater will be treated in STP of 260 KLD capacity. Treated waste water is 247 KLD which will be reuse for flushing, landscape, filter backwash and HVAC Makeup.
14. **Power Requirement:** 1663.44 KW which will be sourced from WESCO. Standby Power through DG Sets - 3X625 kVA +1 X 125 kVA. 2 x 100kWp Grid connected Solar Power Plant connected at Academic Block. Solar Power will contribute 10% of total power demand.
15. **Solid Waste generation**: Total solid waste is 1617kg/day, out of which 1575 Kg/day @ 0.5 kg/day/person domestic waste, 2 kg/day is Horticulture waste and STP sludge is 40 kg/day. The organic waste is 970kg/day treated in organic waste converter and inorganic waste is 162 kg/day will be collected and stored separately. Bio-medical waste is 10 kg/day from academic block. The same will be handed over to local body for final disposal.
16. Rain Water will be harvested through 1 no. of recharging pits.

17. **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4).

18. **Parking space** is 21721.66m^2 has been provided i.e. 30.10 % of Total BUA.

19. The total green area provided for the project is around 39252.08m2 i,e, approximate 36.96% of total plot area.

20. The total estimated population of the project will be 3150 persons.

21. The project cost is 220.74 Crores and is expected to be completed within a span of 24 months.

22. The Environment consultant **M/s P and M Solutions Ltd. Noida** along with the proponent made a presentation on the proposal before the Committee.

23. The proponent intimated that this is a proposal of medical college without hospital facility and it will come under exemption category as per EIA notification 2006 and amendment thereafter as built up area is less than 1,50,000 m^2 and coming under educational institution.

24. The SEAC opined that the proponent should give an undertaking inform of legal affidavit that they will not establish any hospital facility in future and the present proposal is for medical college only to get such exemption as per EIA notification, 2006 and amendment thereafter.

25. The SEAC in its meeting held on Dt: 08.09.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent.

26. The project proponent has furnished compliances as desired by the committee vide letter no- 4787 dated 27.10.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	An undertaking in form of legal affidavit that the project proponent will not establish any hospital facility and the present proposal is for medical college only to get exemption as per EIA notification, 2006 and amendment thereafter	Copy of legal affidavit that the project proponent will not establish any hospital facility and the present proposal is for medical college only and hospital over an area over 8.74 acres for which EC has been granted is in the separate campus. No future hospital shall be established.	Undertaking furnished which reveals the medical college has the separate campus than the Hospital campus.
(ii)	It shall be clarified whether hospital area over 8.74 acres for which EC has been granted is in the separate campus or in the same campus and EC applied for over 26.24 acres is for medical college	Same as above	Same as above

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s P and M Solutions Ltd. Noida, the SEAC** recommended that this is a proposal of medical college without hospital facility and it will come under exemption category as per EIA notification 2006 and amendment thereafter as built-up area is less than 1,50,000 m^2 and coming under educational institution.

(VII) PROPOSAL FOR EXTENTION OF VALIDITY OF ENVIRONMENTAL CLEARANCE FOR BHAGABANPUR DECORATIVE STONE DEPOSIT OVER AN AREA 4.108 HA AT VILLAGE-BHAGABANPUR, TAHASIL-KUKUDAKHANDI, DIST-GANJAM OF M/S IIIYAS GRANITES OF MR. M. A RAZZAK (EC)

1. This proposal is for Extension of validity of Environmental Clearance for Bhagabanpur Decorative Stone Deposit over an area 4.108 ha at village-Bhagabanpur, Tahasil-Kukudakhandi, Dist-Ganjam of M/s Iliyas Granites of Mr. M. A Razzak.
2. The lessee had obtained Environmental Clearance from DEIAA, Ganjam Odisha vide letter no: 167/16/DEIAA on dated 20.12.2020 for 5 years, i.e. 2015-16 to 2019-20.
3. The ML of Bhagabanpur Decorative Stone Mine has been executed for 20 years in favour of M/s. Iliyas Granites vide letter no.- 1550/SM dated 10.02.2015 by the Govt of Odisha.
4. The extension of EC is applied at SEIAA for the mining lease coterminous with the lease period of 20 years.
5. The mining plan of Bhagabanpur Decorative Stone Mine was approved vide letter no.7094 on dated 20.08.2015 by Director of Mines, Odisha, Bhubaneswar.
6. The geological reserve in the mining lease area is 2,31,886 MT and Mineable reserve of 1,02,064 MT have been assessed for decorative stone in the lease area. The proposed rate of production is 3880 cum (maximum) during the plan period of 5 years and the targeted total production achieved during 5 years was 14930 cum of Saleable Decorative Stone (Blocks & Khanda).
7. The Lessee has applied for extension of validity of EC up to the lease period for 20 years
8. The proponent made a detailed presentation before the SEAC on 17.07.2020. The SEAC decided to take decision on the request of the proponent after the proponent submits certain information / documents
9. The SEAC in its meeting held on Dt: 17.07.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent.
10. The project proponent has furnished compliances as desired by the committee vide Ref.no- IG/BP-4 dated 08.11. 2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Certificate from Mining Officer, Ganjam that no other mines located within the periphery of mining lease area of Bhagabanpur	Certificate from Mining Officer, Ganjam mentioning 3 other mines. 1. Bhagabanpur Decorative	The proposal will not come under cluster approach.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	Decorative Stone Mine.	Mines of M/s Amarjyothi Granites (India) Pvt. Ltd. 2. Bhagabanpur Decorative Mines of M/s Iliyas Granites. 3. Bhagabanpur Decorative Mines of Sri. A.N. Bakshi.	
(ii)	Copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar	Copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar	---
(iii)	Copy of mining lease document indicating the lease period	Copy of lease deed	The lease is valid upto 18.12.2047
(iv)	Letter of Steel & Mines Department, Govt. of Odisha indicating that the mining lease is in force and in favour of the lessee	Not furnished	Letter of Steel & Mines Deptt. has not furnished.
(v)	Copy of mining plan	Not furnished	Copy furnished earlier
(vi)	Layout map showing the mining activity, waste dump, quantity of waste backfilled in the area	Not furnished	Not furnished

15. The SEAC observed that though the proponent has furnished hard copy of compliance report, but same has not yet been uploaded in the online system. Moreover, the proponent has also not submitted the following information/document.

    i) Letter of Steel & Mines Department, Govt. of Odisha indicating that the mining lease is in force and in favour of the lessee.
    ii) Layout map showing the mining activity, waste dump, quantity of waste backfilled in the area.

After detailed discussion, the SEAC decided to take decision on the proposal after the proponent upload the compliance in online system as well as submit information / documents as stated in para-15 above.

(VIII) PROPOSAL FOR AMENDMENT OF ENVIRONMENTAL CLEARANCE FROM MULTI STORIED COMMERCIAL IT/ITES BUILDING TO INSTITUTIONAL BUILDING "TOWER 2010" AT MANCHESWAR INDUSTRIAL ESTATE, BHUBANESWAR, DIST- KHURDA, ODISHA OF M/S ODISHA INDUSTRIAL INFRASTRUCTURE DEVELOPMENT CORPORATION ORGANIZATION (IDCO), WITH BUILT UP AREA -55,141.83 SQ.MT – REGARDING AMENDEMENT OF EC.

1. This proposal is for amendment of Environmental Clearance from Multi Storied Commercial IT/ITES Building to Institutional Building "Tower 2010" at Mancheswar

Industrial Estate, Bhubaneswar, Dist- Khurda, Odisha of M/s Odisha Industrial Infrastructure Development Corporation Organization (IDCO), with built up area - 55, 141.83 sq.mt.

2. M/s IDCO has obtained Environment Clearance from SEIAA, Odisha vide letter no. 620/SEIAA, dated 11.04.2014 for Multi Storied Commercial IT/ITES building "Tower 2010" at Mancheswar Industrial Estate, Bhubaneswar, Dist- Khurda, Odisha with built up area -55,141.83 m^2.
3. Building permission from BDA was obtained vide letter no. 21630/BP/BDA, Bhubaneswar, dated 26.09.2012 for Multi Storied Commercial IT/ITES building "Tower 2010" at Mancheswar Industrial Estate, Bhubaneswar, Dist- Khurda, Odisha with built up area -55,141.83 m^2.
4. M/s IDCO has requested for amendment of Environmental Clearance for Changing of Activity of "Tower 2010" of IDCO at Mancheswar Industrial Estate, Bhubaneswar, Dist-Khurda, Odisha, from Commercial IT/ITES Building to Institutional Building.
5. The institutional building will carry out the following courses:
    - Mechatronics
    - Facilities Technology (Mechanical & Electrical)
    - Facilities Technology (Air-con and Refrigeration)
    - Facilities Technology (Vertical Transportation)
    - Precision Engineering
    - Logistics Operations
    - Beauty & Wellness
    - Hair Fashion & Design
6. Total Land area -16187.4 sq. m (4.0 Ac) and Total Built up area – 55,141.83 sq. m. There will be no change in total land area as well as built-up area due to changing activity.
7. A comparison statement of requirement and utilities of previous activity & proposed activity are given below:

Sl. No.	Particular	Existing EC (Ref. No. 620/SEIAA, dated 11.04.2014)	Amendment EC
(i)	Building Activity	Commercial IT/ITES Building	Institutional Building
(ii)	Plot No.	4941(p), 4954(p), 488(p), 493(p), 492(p) & 490(p)	4941(p), 4954(p), 488(p), 493(p), 492(p) & 490(p)
(iii)	Khata No.	2076, 1352 & 685	2076, 1352 & 685
(iv)	Plot Area	16,187.4 sqm	16,187.4 sqm
(v)	Built up Area	55,141.83 sqm	55,141.83 sqm

Sl. No.	Particular	Existing EC (Ref. No. 620/SEIAA, dated 11.04.2014)	Amendment EC
(vi)	Height of the Building	88 m	88 m
(vii)	No. of Storied	18 Storied	18 Storied
(viii)	Water Requirement	380 KLD	337.5 KLD
(ix)	Fresh Water Requirement	150 KLD	125.0 KLD
(x)	Waste Water Requirement	230 KLD	154.6 KLD, Recycled water after STP treatment is 148.4 KLD
(xi)	STP Capacity with MBBR Technology	230 KLD	230 KLD
(xii)	Power Requirement	4600 KW	4600 KW
(xiii)	DG Set	4 x 1600 KVA	4 x 1600 KVA
(xiv)	Solid Waste Generation	1200 kg/day	1000 kg/day
(xv)	Estimate Population	3000 Nos.	2500 Nos.
(xvi)	Cost of the Project	97.7 Crores	97.7 Crores

8. The Environment Consultant **M/s Centre for Envotech and Management Consultancy Pvt. Ltd.** Bhubaneswar along with the proponent made a detailed presentation on the proposal before the Committee.

9. The SEAC in its meeting held on Dt: 26.07.2019 decided to take decision on the proposal after receipt of the following information / documents from the proponent.

10. The project proponent has furnished compliances as desired by the committee vide letter no. IDCO/Ho/CGM (Env.) /FC/140-A/14-15/ 13816 dated 14.10. 2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Copy of half yearly compliance Report to Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.	Latest half yearly compliance Report to Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.	Furnished
(ii)	Details of power to be	Total power consumed from CESU is	Furnished.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	consumed from CESU and percentage of Solar energy to be used in the project	3245KW, details given in **Annexure-2**. Power consumed from solar energy is 200KW. So total percentage of solar energy is 6%. Detail calculation of solar energy is given in **Annexure-3**.	
(iii)	Details of Greenbelt area. Plants previously planted and proposed to be planted	Total Green Belt area is 3238 sqm. which is 20% of the plot area. Details Green belt plan is given in **Annexure-4.**	Furnished.

The SEAC decided to take decision on the proposal after a site visit by the sub-committee of SEAC.

(IX) PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR PAIKADAKULGUDA SEMI PRECIOUS GARNET STONE MINES (CAT'S EYE) OVER AN AREA OF 40.946 HA. IN VILL. PAIKADAKULGUDA & KANDHADAKULGUDA, TAHASIL: BISAM CUTTACK, DIST RAYAGADA OF SRI BIJAY KUMAR BANSAL (TOR ISSUED VIDE LETTER NO. 955/SEAC-159, DATED 19.11.2018) (EC)

1. The proposal is for Environmental Clearance of Paikadakulguda Semi Precious Garnet Stone Mines (Cat's Eye) over an area of 40.946 Ha. in Vill. Paikadakulguda & Kandhadakulguda, Tahasil: Bisam Cuttack, Dist Rayagada of Sri Bijay Kumar Bansal.
2. This is a proposal for gemstone mining project with production capacity of 41 kg / annum gemstone over mining lease of 40.946 ha.
3. The grant of mining lease for semi-precious stone (Cat's Eye) in favour of Sri Bijay Kumar Bansal in villages Paikadakulguda and Kandhadakulguda for a period of fifty (50) years vide letter No.250/SM, Bhubaneswar dated 07.01.2017. Subsequently, the precise area map along with Boundary description & Land schedule of the granted area has also been issued to the lessee letter No. 2108 dated 29.05.2008, Department of Steel and Mines, Govt. of Odisha, Bhubaneswar.
4. Previously, the mining lease area over 41.485 hectares was granted in favour of Sri Bijay Kumar Bansal vide grant proceeding No.9245 / SM dated 12.11.2007 for 20 years after receipt of approved mining plan on 03.05.2007 and Collector Rayagada requested the department of Steel & Mines, Govt. of Odisha for execution of M.L area over 40.946 hectares after final survey and demarcation vide his letter No.2108 dated 29.05.2008.
5. Previous mining plan for Paikadakuluguda Cat's Eye Deposit in the M.L area over 41.485 hectares prepared under Rule 22 of MCR, 1960 was approved by the Indian Bureau of Mines, Govt. of India for a period of five (5) years vide letter No.BBS/RGD/Cat's Eye/MP-298 dated 03.05.2007. Since extent of the M.L area over 41.485 hectares as per terms & condition letter dated 15.10.2001 has been reduced to 40.946 hectares dated 07.10.2017. Modification of Mining Plan has been prepared for 40.946 hectares under Rule 17(3) of MCR, 2016 for 5 years and approved vide letter no. MPM/OTFM/18-ORI/BHU/2018-19 dated 27.07.2018.

6. Terms of Reference (TOR) was issued vide SEAC letter. No. 955, SEAC-159 dated 19.11.2018
7. The lease area in favour of Lessee Sri Bijay Kumar Bansal for excavation of Chrysoberyl cat's Eye Gem Stone is located in village Paikadakuluguda under Bissamcuttack Tehsil of Rayagada District. Lease area is a part of Survey of India toposheet No 65 M/10 on 1:50,000 scale and is bounded by the latitudes from 19˚34'37.09" to 19°35'05.51"N and longitudes from 83°32'05.35" to 83°32'31.17"E as per geodetic survey. The area is at a distance of 5 km from Muniguda town. The nearest railway siding is at Muniguda located at a distance of about 5 km from the lease area respectively.
8. The major portion of the lease area coming under waste land, water way & road. Soil-alluvium exposure is found to cover the total lease area. Mineable reserve is same to that of geological reserve as there will no loss due to M.L boundary & over all slope factors. Hence, mineable reserve for Cat's eye bearing zone is 555 kg. Keeping the maximum production of 41kg/ annum, the mineable reserve will be exhausted in 14 years time including the mining plan period.
9. Opencast method of mining will be adopted in the M.L area manually on single shift basis with deployment of equipments like hand shovels, pick axe, crow bar, baskets etc. overburden will be excavated & loaded manually and transported through 10 t capacity truck / tippers to the dumping site. The maximum production of cat's eye from the lease area will be 41 Kg/ Annum. With this rate of production the life of mine will be 14 years which include the present plan period of five years. A washing unit is proposed to be established for recovery of the Cat's eye. Mining will be carried out around the existing pit. Proposed rate of excavation varies between 1170 m3 to 518 m3 from 1st year to 5th year of development, washing unit is located at close proximity of the quarry
10. The proposed mining project will able to create employment opportunities for 83 personnel among which 8 will be administrative and technical personnel and rest 75 will be skilled, semiskilled and unskilled labours.
11. Tube well is the source of water for drinking purpose in nearby villages. Vasundhara & Kani Jorhi River and tanks provide water for non-domestic use. The water requirement of the washing plant is 9.8m3 / day. Out of total water used, 90% is recycled where as 10% is required as daily make up water.
12. During the plan period, 98450 m3 OB / waste will be generated. These wastes will be dumped inside the lease area over an area of 1.231 Ha. at 8m average height in one terrace of 10m height. Construction of retaining wall and plantation around proposed dump will be carried out. Waste removed from the pit will be utilized for backfilling once the pit is exhausted. Therefore, there will be no dump in the lease area during the conceptual period.
13. The existing nala near the lease area will remain untouched as it is 0.2 km far from lease area and protected stone pitching on both the banks and plantation of small grasses to restore the soil erosion. There is the proposal for construction of check dam in the nala to

store water which will be utilized in the process of washing. Garland drains will be constructed along the quarries and dumps which are routed through settling pits of size 10m x5mx2m.

14. During the plan period there is the proposal for plantation of about 750 saplings over an area of 0.3 Ha and during conceptual period 6.05 Ha of the land will be covered under plantation with about 10500 saplings.

15. The Public Hearing has been conducted on 15.11.2019 at 10.30 AM at Paikadakulguda of Kutraguda R.I. Circle, in the district of Rayagada in accordance with the Ministry of Environment, Forest & Climate Change, Govt of India, EIA Notification No.SO-1533(E) on dated 14.09.2006.

16. The major issued raised by public include conservation of the forest near the mines, employment generation, developmental work like road construction, educational development in the villages. The lessee agreed to conduct the CSR activities shall be carried out in consultation with co-ordination committee formed under Gram Sabha of the local Panchayat to get local villagers involvement. Budget allocated for peripheral developmental acitivities will be 16.5 Lakhs

17. Baseline study was conducted in pre monsoon season (March to May 2018).

18. The cost of the project is ` 320 Lakhs.

19. The project proponent along with their consultant **M/s Kalyani Laboratories Pvt. Ltd. Plot no.-78/944, Pahala, Bhubaneswar -752101** made a detailed presentation on the proposal before the SEAC on 17.07.2020.

20. The SEAC in its meeting held on Dt: 17.07.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by a site visit by the Sub-Committee of SEAC to the proposed site.

21. The project proponent has furnished compliances as desired by the committee vide letter no. Nil dated 07.11. 2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Specific measures to be taken in case of deep mining and slope failure as the mining area is sandy soil type. Slope study to be done preferably by an Institute of National repute	The details regarding slope failure measures has been given in **Annexure 1.**
(ii)	Remedial Measures to be taken so that natural drainage of nala is not affected. A detailed proposal to this effect to be submitted.	Remedial Measures to be taken so that natural drainage of nala detailed as **Annexure 2**
(iii)	Since the mining activity will intercept ground water table, ground water study to be undertaken and report is to be submitted	With reference to approved mining plan: Ultimate pit depth = 324 mRL (42m from top level i.e. 366 mRL. Surface level = 290 mRL Ground

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		water table during rainy season = 15m below surface level (275mRL) Ground water table during Summer season = 20m below surface level (270mRL) Hence, there is no possibility of ground water intersection during the period of mining. Map showing ultimate pit depth and depth of ground water attached for reference. Copy of the portion of the mining plan describing the pit limit attached. **Annexure 3**
(iv)	Details of proposed bench height and slope	Height and width of the benches will be maintained at 6m each. Individual benches will be maintained at 800 and overall quarry slope angle will be maintained at 340 with respect to horizontal. Benches will be formed and worked in a top downward manner. Footsteps will be provided between the pit top, bench floors and pit bottom for the movement of workers with or without loads
(v)	Type of retaining wall to be provided with design/dimensional details	Retaining wall will be constructed around the OB dump to retain the wash-off materials. Boulders / bricks of waste materials will be utilized for construction of retaining wall. Sand and cement will be used for the binding of the boulders / bricks to prevent loose waste materials. Dimension of Retaining wall, garland drain and Settling tank have been submitted.
(vi)	A natural nallah is passing inside the lease area. A detailed proposal to protect the nallah is to be submitted	As described in point no. 2 **Annexure 2**
(vii)	A public road passing through the lease area. A detailed proposal to be submitted to provide alternative passage to the public	The public road is passing through the lease area in the northern part. Up to the conceptual period a total area of 4.880 Ha only will be utilized for mining and allied activity. The mining activity along with dumping will be completely carried out in the South – Eastern part of the lease

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		area. So the mining activity will not interfere the public road. Further the public road is located at a distance of 600 m from the ultimate quarry boundary. The map showing the ultimate quarry limit, location of public road is given in **Annexure- 4**
(viii)	Details of the mining pits to be operated for a particular time	During the proposed period of mining one pit will be operated. During the conceptual period the area of the pit will be 2.384 Ha. The map showing the conceptual mining pit area has given in **Annexure 5.**

The SEAC decided to take decision on the proposal after a site visit by the sub-committee of SEAC.

(X) PROPOSAL OF ENVIRONMENTAL CLEARANCE OF CHHEND HERITAGE HOMES PVT. LTD. FOR STORIED A.H.P RESIDENTIAL APARTMENT BUILDING OVER AN AREA 3.30 ACRES IN KHATA NO. 9 & PLOT NO. 289/432 (P), 288 (P), 280(P), 292 (P), 291 (P), AT MOUZA- CHHEND, R.T.U-3, P.S. CHEND, TAHASIL- ROURKELA, SUNDERGARH. OF SRI ALOK SHARMA (DIRECTOR) - EC

1. This is a proposal for Environmental Clearance of Chhend Heritage Homes Pvt. Ltd. for storied A.H.P Residential Apartment Building over an area 3.30 acres in Khata No. 9 & Plot No. 289/432 (P), 288 (p), 280(P), 292 (P), 291 (P), at Mouza- Chhend, R.T.U-3, P.S. Chend, Tahasil- Rourkela, Sundergarh. of Sri Alok Sharma (Director). With total built-up area will be 20407.0974 Sq.mt.
2. The project falls under Category “B”, Project or Activity 8 (a) as per schedule of EIA Notification dated 14th Sep, 2006, as amended from time to time.
3. The proposed project is for construction of affordable housing blocks under “Housing for All” schemes for economically weaker section at Plot No. 289/432 (P), 288 (p), 280(P), 292 (P), 291 (P), Khata No. 9, Mouza- Chhend, R.T.U-3, P.S. Chhend, Tahasil- Rourkela, Sundergarh Odisha over an area of 3.30Acres (13354.62 Sq.mts) through Public Private Partnership (PPP) mode and will be implemented by M/s Chhend Heritage Homes Private Limited and Rourkela Development Authority (RDA).
4. A total area of 5.05 Acres (Project area) is divided into Affordable Housing Area (AHA) of 3.30 acres on which Affordable Housing Project (AHP) will be undertaken and Developer’s Area (DA) of 1.75 acres on which Private Development Project (PDP) will be undertaken. The application for Environment clearance is made for construction of 500 units in 4 blocks of G+3 storied building for EWS, commercial area, primary school and primary health centre and community hall.
5. The project site is located in Survey of India Toposheet No. 73B/16. Nearest Railway station is Panposh Railway station at a distance of 1.5 Km from the project site. The

nearest road is Rourkela Ring road, Chhend main Road & Panposh Road at a distance of 1.5Km, 0.3Km & 1.5Km respectively. The site is well connected to NH-23 at a distance of 1.7Km. Nearest airport is Rourkela airport at a distance of 1.7Km from the project site. The nearest river is Brahmani River & Koel River located at a distance of 1.3 Km & 2.0 Km respectively. Rourkela Steel Plant & Rourkela industrialship located at a distance of 4.5 Km & 2.5Km respectively.

6. Total land area of the project is 13354.62 Sq.m (3.3 Acres). Total Built Up Area: 20407.0974 Sq.m. Maximum height of the building is 13.05m.

7. The Detailed Area Statement of the project is mentioned in the table:

Sl. NO.	PARTICULARS	AREA
1.	Total Site Area	3.3 Ac.
2.	Total Built up Area	20407.0974 m^2
3.	Ground floor coverage area	40.94%
4.	Total open space (Green Area)	2051.40 Sq.mt (15%)
5.	Service area	30. Sq.mt
6.	Parking area	2539.2311 Sq.mt.
7.	Area for Internal Roads	1268.33 Sq.mt.
8.	Area of STP & Sewerage	1747.77 Sq.mt.
9.	FAR (with respect to AHP Area of 3.30Acre)	1.486
10.	Area of Solid Waste management (location of waste bin)	provided in the main Entry and Exit point and also provided along the entry path to the four blocks
11.	No. of Trees provided	170
12.	Maximum height of the building	13.05 m

8. **Total Water Requirement:** Total amount of water requirement will be 310KLD out of which fresh water requirement will be 260 KLD & it will be made by PHD, Rourkela and 50 KLD of the water will be used for gardening purpose. There is the proposal for construction of 210 KLD STP for treatment of waste water from the project based on MBBR technology.

9. **Power Requirement:** 1000 KW which will be sourced from CESU. Solar Power will contribute 5% of total power demand i.e.50KW.

10. **Solid Waste generation**: Total 1000 kg/day amount of solid waste will be generated which will be disposed through Rourkela Municipal Corporation. (RMC).The permission has been obtained by RDA for collection of solid waste from Rourkela Municipal Corporation.

11. Rain Water will be harvested is 614.7 cum through 31 no. of recharging pits.

12. **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4).

13. **Parking space** is 2539.2311 Sq.mt has been provided.

14. The total **green area** provided for the project is around 2051 Sq.m (15% of total plot area). Around 170nos of trees plantation will be made in the open space, road side and garden areas.
15. The total estimated population of the project (office, retail area, residential area) will be 2500 persons.
16. The project cost is ` 31 Crores.
17. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a briefing on the proposal before the Committee.
18. The SEAC in its meeting held on Dt: 11.09.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of SEAC Sub-Committee.
19. The project proponent has furnished compliances as desired by the committee vide letter no. Nil dated 07.11. 2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Drainage layout showing waste water drainage system and storm water drains and surface drains connecting the existing municipal drain	Copy of the drainage map showing the waste water drainage system and storm water drainage attached as **Annexure 1**
(ii)	Land schedule and kissam of land	Land details attached as **Annexure 2**
(iii)	DLC report from DFO regarding status of land	DLC report from DFO regarding status of land attached **Annexure 3**
(iv)	ECS is to be submitted in terms of two wheeler	The parking provided: 253 ECS ECS in terms of two wheeler parking = 1280. (taking ECS 0.2 for Two wheelers. Details in compliance.
(v)	Details of solar energy will be used in project	Out of the total power requirement 50 KW i.e. 5% of the total power requirement will be from solar energy and other 950 KW will be sourced from WESCO. The street lighting will be completely made by solar photo voltaic cell.
(vi)	Break up % of total green belt (landscape and trees) and where the plantation will occur. Possibility to increase the green belt coverage to be confirmed. Number of trees/plants and types to be submitted.	Total Plot area: 13354 Sq.m Revised Green belt proposed = 2700 Sq.m (20.22%). Details in compliance.
(vii)	Layout showing location of rain harvesting recharging pits	Layout plan showing the rain water recharge pits attached as **Annexure 4**
(viii)	Layout showing the drain (waste water of the proposed project	Layout showing the drain water of the proposed project connecting to municipality

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	connecting to municipality drain and letter from RDA/municipality that their existing drain infrastructure can take the additional load of the proposed project	drain attached as **Annexure 1**. Letter from RDA/municipality that their existing drain infrastructure can take the additional load of the proposed project **Annexure 5**
(ix)	Details of treatment of waste water and disposal thereof at the end of the downstream by RDA/municipality with letter from Municipality authority to take the load of treated waste water and storm water discharge	Letter from RDA/municipality that their existing drain infrastructure can take the additional load of the proposed project **Annexure 5**
(x)	For conservation of water dual plumbing is inevitable. So need to confirm to provide dual plumbing arrangement so that part of waste water can be reused in flushing etc. and rest for plantation and balance to municipality drain if unavoidable	Dual plumbing for the project is not possible as this project is for EWS category and no flushing arrangement proposed in the project. However the treated waste water will be utilized for plantation, washing and avenue plantation along the road side. Details of waste water utilization plan given in **Annexure 6**

The SEAC decided to take decision on the proposal after a site visit by the sub-committee of SEAC.

(XI) PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S CREATIVE CULTIVATION PVT. LTD FOR PROPOSED "RESIDENTIAL DEVELOPMENT" AT GOVINDPUR, BHUBANESWAR, DIST – KHORDHA, WITH TOTAL BUILT-UP AREA - 147950.159 M^2 (EC)

1. The Proposed project is "Residential Development" located at Plot 518, 519, 549, 554/1155, 554/1102/1157, 550, 552/1159, 553, 551, 585/1154, 587, 586/1144, 590, 589, 600, 588, 588/991, 602/1169, 601/990, 601, 604/1004/1170, 604/1004/1170, 605/1177, village- Govindpur, Tehsil- Jatni, District- Khordha, Bhubaneswar, Odisha- 754136 developed by M/s Creative Cultivation Pvt. Ltd.
2. The Total Plot Area is 60927.186 m^2, total net plot area of the project will be 59470.37 m^2, area for Future Development will be 17967.858 m^2 and area for Present Development will be 41502.508 m^2. The built-up area of the project will be 147950.159 m^2.
3. Since, the built-up area of the project is less than 1,50,000 m^2 . Hence, it falls under Activity 8(a), Category B as per Schedule of EIA Notification, 2006 and its subsequent amendments.
4. The maximum no. of floors will be B+S+14. The maximum height of the building will be 44.95 m. Total 5 no. of towers (1162 DU), 1 EWS unit (224 DU), 1 unit of clubhouse have been proposed. The total population of the residential complex will be 7616 consisting of Residents- 7126 ; Clubhouse Visitors- 125 ; Staff- 15 and Visitors- 350.

5. The geographical co-ordinate of the project site is: Latitude – 20°11'34.00"N & Longitude - 85°42'0.63" E which falls under Topo sheet No- 73H/11, 73H/12, 73H/15 and 73H/16. The project site is located at National Highway NH- 5 at a distance of approx 1.89 Km in North North West direction and NH – 224 is at 5.89 km. The nearest railway station is Khordha Road Railway station at a distance of approx. 4.78 Km. The nearest airport is Biju Patnaik Airport at a distance of approx. 13.50 Km from project site. Nearest canal is Daya Canal – 3.87 km. Nearest Nala is Gangua Nala adjacent to project boundary. Nearest lake near Chhanaghar – 2.74 km. to the project site. Nearest forest is Ratnapur protective forest at 4.26km from project site.
6. Meteorology: The maximum temperature is about 36.0 0C and the minimum temperature is 16.0 0C felt in the area. The average annual rainfall in the area is 1718.06 mm.
7. The building details of the project:

Particulars	Unit	Details
Plot Area	m^2	60927.186
Area under road widening	m^2	1456.820
Net area for development	m^2	**59470.366**
Area for Future Development	m^2	17967.858
Area for Present Development	m^2	41502.508
Ground Coverage		
Ground Coverage (Proposed)	m^2	9583.05
FAR Area		
FAR proposed Residential (a)	m^2	109059.48
FAR proposed EWS Tower (b)	m^2	11436.65
Society Block Area	m^2	938.32
Total Proposed FAR (a+b)- A	m^2	121434.5
NON-FAR AREA		
Non-FAR Area (Mumty and machine room etc.)	m^2	1315.71
Stilt Area (Excluding common areas)	m^2	7717.37
Total Non-FAR- B	m^2	9033.08
Basement Area- C	m^2	17482.6
Built-up Area (A+B+C)	m^2	147950.1
Green Area	m^2	7729.5
Road Area & Open Area	m^2	24189.96

8. **Water Requirement**: The total water requirement of the project during occupational stage is 1231 KLD, out of that the fresh water requirement is 650 KLD will be sourced from Ground Water and the recycled water from S.T.P is 581 KLD. The total sewage water generated is 868 KLD. It is proposed to treat the sewage in STP of capacity of 885 KLD. The treated

waste water is used for Flushing, & Gardening and remaining will be used for irrigation purposes in nearby areas.

9. **Power requirement:** The daily power requirement for the proposed complex is 4698 KW (CESU). In order to meet emergency power requirements during the grid failure, there is provision of 6 nos. of DG sets having 2X500 KVA, 1X200 KVA, 1X250 KVA, 2X625 KVA capacities for power back up in the Residential Building Project. DG sets will be kept in acoustically treated room on the surface of residential colony. To avoid the emissions stack height of 4.5 m for 2x500 kVA , 3.2 m for 1x250 kVA , 2.8 m for 1x200 kVA & 5.1 m for 2x625 kVA above roof level will be provided to reduce the air emissions meeting all the norms prescribed by CPCB.

10. **Rain Water Harvesting** is proposed which will be harvested through 2 no. of recharging pits and 4 Rain water collection tanks (660 cum).

11. **Solid Waste Management**: From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated which will be about 3281 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. Biodegradable Waste 1969 kg/day will be treated in In-house Organic Waste Convertor and Non Bio degradable waste 656 kg/day and plastic waste 656 kg/day will be sent to Authorized Vendors as per SWM Rules 2016. Used Oil of approx. 40 litre/month will be collected in leak-proof containers at isolated places and then it will be given to approved recycler. E-Waste of approx. 2 kg/month will be collected and given to approved recyclers. Battery waste will also be sent to Authorized Vendors of CPCB.

12. Total Parking provisions for the project after expansion will be 1080 ECS. The green area of the project will be 7729.50 $m^{2.}$

13. The total project cost is ` 213.905 Crores.

14. The project proponent along with the consultant **M/s Perfect Enviro Solutions Pvt. Ltd., (New Delhi) – 110085** made a detailed presentation on the proposal.

15. The SEAC decided to take decision on the proposal after the proponent submits the following information/ documents followed by the site visit of the Sub-Committee of SEAC.

16. The project proponent has furnished compliances as desired by the committee vide letter no. Nil dated 07.11. 2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Greenbelt area is proposed to be 18.6%. Revise plant layout for green belt (continuous and increase in percentage minimum to 20%) excluding land scape is to be submitted	The Landscape area is revised from 7729.5 m2 to 8300.50 m2 i.e. 20% of net plot area. Revised Plant Layout for Green Belt along with Land Use is attached as **Annexure-2**
(ii)	Revised ECS calculation taking into consideration total no. of	Total parking provision – 1393 ECS (Residents-1274+Visitors-119)

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	residents and floating visitors is to be submitted	
(iii)	DG set stack height details including location and its effect w.r.t. sound and emission and wind direction in that area	DG will be placed at the farther most NE of the project site as possible. Above the proposed DG location we have the site Entry / Exit and portion of site given for road extension 30 m high DG stack is proposed and the distance from the nearest Tower will be 33.3 m away.
(iv)	Reduction in no. of DG sets and is location in revised layout	Earlier we have proposed DG Set of capacity 2x500 kVA, lx 200 kVA, 3x250 kVA, 2x625 kVA Now, we have reduced the no. of DG and new No. of DG Set proposed are 2x1250 Kva. The DG Load Matrix is attached as **Annexure 3**.
(v)	Status of permission from CGWA and Water Resources Department, Govt. of Odisha for ground water drawal	Water supply is not made available in that area. Hence permission from CGWA shall be taken.
(vi)	NOC from drainage department for discharge of treated water to readymade municipality drain provided near proposed location	It is expected that after the completion of the project, the occupancy will be 20% in the first 3 years, 50% in 5 Years, 80% in 7 years and 100% by 10 years. So in such a case the NOC from the drainage department will not be required till the occupancy rate is 50%as wastewater generation will be less as there will be less no. of occupants. Therefore, no excess treated water will be discharged to the municipality drain. After 50% occupancy there will be generation of Excess treated water, therefore permission from the drainage department will be acquired at that time to discharge treated wastewater from STP to the drain. A detailed water management showing treated water requirement & treated water available for reuse at occupancy load of 20% 50% 80% & 100% is attached as **Annexure 4.**
(vii)	Detailed calculation for generation of waste water and its management during monsoon and non-monsoon period separately	The water balance and Management for Monsoon Season is attached as **Annexure 5A** & for Non-monsoon Season is attached as **Annexure 5B.**

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(viii)	Breakup percentage of power requirement by CESU and Renewable Solar energy (5%) with detailed plan	We have proposed Solar Panels on terrace to generate 5% of total consumption of Electrical energy and it will be given back grid and an equal amount of energy can be gained on grid
(ix)	Details of Solid Waste Management i.e. copy of agreement with agency collecting solid waste (non-biodegradable) from the premises	The total Solid waste generation from the proposed project will be 3281 Kg/day. The Biodegradable waste generation will be 1969 Kg/day which will be treated in Organic Waste Convertor and manure will be reused for landscaping purposes at the project site. The Non-biodegradable waste will be given to the approved recycler. The agreement for Non-biodegradable waste recycles shall be done when the project becomes operational.
(x)	Details of traffic study conducted for this project	Traffic study report is enclosed as Annexure 6.
(xi)	Details of Nala adjacent to the project site	Gangua Nala is located adjacent to the project site. The Gangua Nala is originating from Khurdha which is at a distance of 8.37 Km SW and merging into Daya river which is at a distance of 10.14 Km SE from the project site. There is a level difference of 2m from the Gangua Nala (21 m) to the nearest road level (23 m).
(xii)	Kissam of land and land schedule of the proposed project site	The proposed project site Land is Homestead land. The Kissam of land detail superimposed over the project site layout is attached as **Annexure 7.**

The SEAC decided to take decision on the proposal after a site visit by the sub-committee of SEAC.

(XII) PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. CHROME SAGAR FOR CHROME ORE BENEFICIATION UNIT OF THROUGHPUT CAPACITY 18,500 TPA & REFRACTORY MIX PLANT, AT VILLAGE PUBALA, DISTRICT OF JAJPUR, ODISHA - EC

1. This is a proposal for Environmental Clearance of of M/s. Chrome Sagar for Chrome Ore Beneficiation Unit of throughput capacity 18,500 TPA & Refractory mix plant, at village Pubala, district of Jajpur, Odisha of Sri Rajendra Kumar Thatoi.
2. The project falls under Category 2 (b), B2 (Throughput <20,000 TPA) as per schedule of EIA Notification dated 14th Sep, 2006, as amended from time to time.

3. The proposed expansion project is for additional installation of chrome ore beneficiation unit with throughput of 18500 TPA within the existing campus of M/s Chrome Sagar at Vill: Pubala, P.O. Sukinda, Dist: Jajpur, Odisha.
4. The existing project for production of Chrome mortar and Chrome monolithic and again obtained Consent to establish for the existing chrome monolithic unit and Chrome refractory mortar of 12,000 TPA capacity obtained from Odisha state pollution control Board vide letter no. 1482/KNG/IND-266 dated 09.08.2019 and Consent to Operate for the unit has been obtained vide letter no. 1687/KNG/IND-266 dated 07.09.2019
5. ToR was issued vide Online Proposal No: SIA/OR/IND/48689/2019 and SEIAA File No: 48689/09-IND/12-2019. The presentation at SEAC, Odisha for approval of ToR was held on 29.01.2020 and ToR Approved Vide letter no: 8365/SEIAA dated 17.07.2019. Application for Environment Clearance was made on 21.08.2020.
6. The proponent has applied to consider their project as Category-B2 as per MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 as throughput of Mineral Beneficiation activity is less than 20,000 TPA involving only physical beneficiation.
7. The MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 stipulates the Mineral Beneficiation activity listed in the schedule as Category-B will be treated as Category-B2 with throughput ≤ 20,000 TPA, involving only physical beneficiation.
8. The total land of M/s Chrome Sagar is 2.2 Acres which is purchased by the project proponent. No additional land is required for the above additional installation of beneficiation unit. No forest land involved. The nearest river is Brahamani river located at a distance of 8.5 Km from the project site. There is the proposal for construction rain water harvesting structure for fulfilment of water requirement for the project over an area of 728 Sq.m.
9. The land area required for the project will be 2.2 acres which comes under agricultural waste land category which has been converted Gharabari Kissam and belongs to the project proponent. Plot No: 1138, 1139/1640 & 1278/1641; Khata No.: 267/39.
10. The proposed area is featured under the topo sheet No. 45T/13 bounded by Latitude:20^0 12' 36"N Longitude:85^0 31' 31"E. The mining lease area is also accessible NH-200 at 2.5 km. and Sukinda – Hatibari road 5 km. The nearest railway station is Sukinda Road railway station and Jajpur road railway station which are situated at a distance of 17 km and 25 km from the proposed area. Nearest airport is Biju Pattnaik Bhubaneswar Airport 80 Kms from project site. Nearest river is Brahmani River at 9.5 km and Jhamra river at 5 km. Nearest town is Sukinda at 4.5 km. Nearest forest Pubala Protected forest at 0.5km. Nearest habitation is within 3km from project site. There is no wild life sanctuary, corridor, National park, biosphere reserve located within 10 Km buffer zone of the project site.
11. Raw material linkage has been established for the proposed plant from M/s B.C. Mohanty Mines, Sukinda and from OMC Ltd. The project is well accessible for transportation of raw

material and product. The project is accessible through a 50 ft wide road which connect to NH – 200 and Sukinda road railway station also located at a distance of 17Km from the project site.

12. The process is a beneficiation process of conversion of low grade chrome ore having content less than 40% of Cr_2O_3 into semi high grade ore having content 50-65% of Cr_2O_3.
13. Generation of solid waste (tailings generated = 3600 TPA having <10% Cr_2O_3) will be properly stored in an impervious platform in earmarked area and will be blended with chrome refractory mortar and sold. So there will be no waste generation from the proposed project. However taking into consideration of maximum storage of 6 years an area of 0.648 Acres has been demarcated for tailing pond.
14. **Total Water Requirement:** The total water requirement of the project is estimated as 68 KLD. The makeup water requirement for beneficiation plant will be 5 KLD and 2 KLD water required for dust suppression and green belt development will be sourced from Rain water reservoir and the drinking water requirement of1 KLD will be sourced from bore well.
15. **Power Requirement:** The total power requirement is estimated as 100 KVA. It is proposed to draw the power from the NESCO.
16. **Green area:** Greenbelt is being/ will be developed in 2938 Sq.m 33 % of total project area. There is the proposal for plantation of 675 saplings within the project site.
17. **Baseline Environmental Studies** were conducted during winter season i.e. from 01-December-2019 to 29th February 2020. Ambient air quality monitoring has been carried out at 8 locations during 01-December-2019 to 29th February 2020 (winter season) and the data submitted.
18. No/ R&R is involved. The proposed expansion is within the existing plant premises without any further land acquisition.
19. The tailing generated from the project will be 6500 TPA (10% Cr2O3) which will be completely utilized in the existing chrome monolithic unit resulting in zero discharge form the proposed beneficiation plant.
20. The project generates employment opportunities for 10 personnel which includes operator - 2, supervisor 2, 3 no of semi-skilled labour and 3 no of unskilled labour.
21. The project has been considered under B2 Category (Mineral beneficiation with throughput <20,000 TPA) and exempted from public hearing.
22. The capital cost of the project is ` 1.05 Crores and the capital cost for environmental protection measures is proposed as ` 16 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as ` 4.5 Lakhs. The detailed CER plan has been provided in the EIA and cost of CER will be 9.5 Lakhs.
23. The proponent has mentioned that there is no court case or violation under EIA Notification

for the project or related activity.

24. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a briefing on the proposal before the Committee.

25. The SEAC in its meeting held on Dt: 30.09.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of sub-Committee of SEAC.

26. The project proponent has furnished compliances as desired by the committee vide letter no. Nil dated 02.11. 2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Detailed proposal for Zero Liquid Discharge (ZLD) with water balance	The proposed project will be operated with zero liquid discharge. The detail proposal for ZLD and water balance attached as Annexure 1
(ii)	Tailing pond capacity is exactly to the waste generation which might overflow / leaked. This shall be clarified how it will be managed. Showing tailing pond design with dimensions taking in to account tailing generation of 20MT/day (32 M3/ day) and the waste water inside it	Capacity of the proposed settling tank for tailing= 5m x 5m x4m = 100 cu.m. Tailing generated per day = 32 Cu.m Water with tailing = 24 Cu.m Total tailing with water = 56 Cu.m 56 Cu.m of tailing will be settled in the settling tank and water is being pumped to the process and settled material will pass through filter press and tailing will be disposed in tailing dumping yard. The tailing generated daily basis will be shifted as raw material in the monolithic unit.
(iii)	Adequacy of Tailing pond, its capacity and steps to prevent leaching of hexavalent chromium shall be furnished	As described above the Settling tank (Tailing pond) is of 100 cu.m capacity and it is adequate for settling of 56 cu.m of tailing generated from the process. The tailing pond will be provided with 150mm RCC which is enough to prevent leaching of hexavalent chromium.
(iv)	Detailed design and specifications of ETP and its adequacy	Detail design and specification of ETP has been attached as Annexure 2
(v)	Detailed design and specification of chrome ore storage area	The raw material requirement for beneficiation unit will be 18500 TPA i.e. 66 TPD. The raw material of chrome ore beneficiation plant is low grade chrome ore (26-40% Cr2O3). The storage area demarcated for raw material will be 1274 Sq.m. which can store raw material for 60 days. (6400 cu.m capacity) Raw material will be stored in a silo of 5 m depth of above capacity as per the advice of the Hon'ble Committee. The raw material storage silo will be provided with RCC wall and flooring to prevent leaching and airborne of dust particle.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(vi)	Mitigation measures to control $PM_{2.5}$ and PM_{10}. Predictive simulated value of $PM_{2.5}$ and PM_{10} with commissioning of this project and surrounding similar new projects be submitted using the model for three-dimensional concentration	The proposed beneficiation plant will be established within the existing campus of the chrome monolithic unit. The simulation modeling was carried out taking into account of both the existing and proposed expansion unit. There is no similar project exists within 5 km radius of the project site. The details of the modeling study carried out for the project and the proposed mitigation measures for control of PM10 and PM2.5 has been attached as Annexure 3.
(vii)	Soil testing report showing actual value of hexavalent chromium	Soil testing report showing the actual value of hexavalent chromium attached as Annexure 4
(viii)	Traffic density study result is to be submitted w.r.t future vehicular movements. Traffic density study process details be furnished. Are MCC AND MCTC methods of traffic density study is recommended for this kind of traffic? Is a standard commission viza-vis the findings of the study be indicated. Has this study been undertaken with important traffic intersection points at public roads i.e NH/SH/District road etc?. The study and the recommendation be rectified by a domain expert. Otherwise, a fresh study be undertaken by a domain expert	The daily additional traffic load due to the plant operation in full capacity will be as follows: 1. Raw material transported from Mining to plant site =66 TPD 2. Truck capacity - 15 Tons 3. Trucks utilized for transportation of Raw material = 5 nos per day (Max) 4. Product transport from the plant to user agency = 40 TPD 5. Trucks utilized for transportation of product = 3 nos per day (max) 6. So the additional truck load for the road = 8 nos / day (Max) The traffic for finished product and raw material from the plant site to the highway metering point will be maximum 8 nos of trucks per day. This traffic has no additional load on this way till metering point. MCC method is being followed here for traffic density study due to easier and less time consuming method as per recommendation of IRC. The details of traffic study has been attached as Annexure 5.
(ix)	Status of road side plantation on kaliapani plant road 25 km with steps proposed for its continuity	The distance from Kaliapani mining site to Ichapur metering point on NH is 22 Km. There is existing plantation on the road side and being maintained. The connecting road from Ichapur (on NH 200) to the plant site is of 3 Km distance. The proponent proposed for plantation along both side of throad connecting the plant site and the highway a distance of 3.0 Km. There will be proposal for plantation of 2000 saplings along both side of the road

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		with a spacing of 2.5m. The saplings proposed for plantation are *Mangifera indica, Azadiracta indica, Bombax ceiba, Delonix regia, Cassia siamea, Albizzia lebbeck, Terminalia chebulae*, *Terminalia bellirica, Emblica officinalis, Mangifera indica, Terminalia arjuna, Terminalia alata, Gmelia arborea, Syzyzium cuminii, Cassia fistula, Anthocephalus kadamba, Acacia nilotica, Eucalyptus sps*
(x)	Tabulated form of existing features and proposed features is to be submitted	Submitted in compliance report.
(xi)	Details of Rain water harvesting. Adequacy of rain water harvesting pond with scope for increasing its capacity shall be furnished	Details of rain water harvesting and scope for increasing the capacity is being attached **Annexure 6**
(xii)	Five Reserve forests are nearby to the project site. Details about how to reduce impact of chrome leaching to the nearby forest area. Additional impact on the environment due to the establishment of chrome ore beneficiation unit	Though there are 5 RF within the 10 Km buffer zone of the project site out of which Pubala protected forest is located at a distance of 500m from the project site. As the project operate with zero liquid discharge technology no waste water discharge will be there outside the plant premises. The anticipated impact of the proposed Chrome ore beneficiation unit on the surrounding environment is as below: • Dust generation due to vehicular movement may have an impact on the nearby scrub vegetation. • The transport route and its periphery does not possess an active agricultural field. • As per the air quality modeling the maximum incremental ground level concentration is 1.05 µg/m3 and resultant concentration at a distance of 100m in SE direction (140°) will be 78.65 µg/m3, which is within the plant premises. There is no direct impact of dust pollution on the protected forest. • There is no wild animal under schedule I/ schedule II found within the protected forest. • The proposed mitigation measure will be as below • The crushing unit will be provided with pollution control measures like bag filter and stationary water sprinklers to settle down the dust within the plant premises thereby reducing the fugitive dust. • Water sprinklers will be installed at the dust prone

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		areas to reduce the dust generation. • The plant operation will be carried out in the day time and transportation of raw material and products will be limited to day time only. • There will be three tier green belt development along the boundary to attenuate air and noise pollution. Plantation has been already initiated within the plant premises
(xiii)	Alternative Biological Method for conversion of Hexavalent Chromium	Considering the plant capacity as a tiny plant the method being selected as a established and easy operative method. Considering the investment capacity, the chemical dosing method is best feasible at present. The important point for consideration here is the treatment is applicable for surface runoff during rainy season only. In other season the water is being completely recycled and preserved for process. Hence no treatment is required. Biological process may be recurring a continuous maintenance of the microbes which may not be feasible for this tiny plant.
(xiv)	Land schedule and kissam of land	The proposed beneficiation plant will be established within the existing premises of monolithic unit. No additional land acquisition will be there for the unit. Existing Land Document attached **Annexure 7**
(xv)	Land conversion document for industrial use	The proposed beneficiation plant will be established within the existing premises of monolithic unit. No additional land acquisition will be there for the unit. Existing Land Document attached **Annexure 7**
(xvi)	Certificate from the State Pollution Control Board w.r.t. to compliance to Consent to Establish and Consent to Operate conditions of existing units	Certificate from regional office, OSPCB attached **Annexure 8**
(xvii)	Area required for the expansion	Total area available is 8904 Sq.m. with already constructed boundary wall. The existing monolithic unit covers an area of 3128 sq.m. The proposed COB and accessory plant require 5776 sq.m. Hence no additional land acquisition is required for this beneficiation plant.

<table>
<tr><th>Sl. No.</th><th>Information Sought by SEAC</th><th>Compliance furnished by the proponent</th></tr>
<tr><td>xviii)</td><td>Existing product with capacity</td><td><table><tr><th>Product</th><th>Quantity</th></tr><tr><td>Existing Unit</td><td></td></tr><tr><td>Chrome monolithic</td><td>12000 TPA</td></tr><tr><td>Chrome Refractory mortar</td><td>12000 TPA</td></tr><tr><td>Proposed Expansion</td><td></td></tr><tr><td>Chrome Concentrate Unit</td><td>18500 TPA (Throughput)</td></tr></table></td></tr>
<tr><td>(xix)</td><td>Year of commencement of production of existing unit</td><td>Consent to operate was granted vide letter no. 2355/Con-266 dated 06.12.2018 only for production of Chrome refractory mortar and Chrome monolithic.
Copy of CTE and CTO attached. Annexure 9</td></tr>
<tr><td>(xx)</td><td>Detailed Material Balance</td><td>Material balance attached Annexure 10</td></tr>
<tr><td>(xxi)</td><td>Temporary changes in condition of nearby forests and contribution of project in it with steps for improvement shall be furnished</td><td>The impact on the forest is only due to dust emission due to vehicular movement.
The pollution control measures will be adopted for reducing the pollution within the plant premises and proper green belt will be developed to reduce the emission from the plant area.
The air pollution due to the proposed beneficiation process will be confined within the premises. Only impact on forest is due to vehicular transportation which will be minimized by following measures
• There is the proposal for plantation along both side of the road connecting to the main road.
• The trucks used for transportation of raw material and product will be covered reducing dust emission.
• There will be water sprinkling (12 KL tanker) arrangement on the connecting road to reduce dust emission.</td></tr>
<tr><td>(xxii)</td><td>Leachate management from tailing stack and tailing disposal management be submitted if tailings are not used just in time on generation</td><td>The tailing will be settled in the settling pit of 5x5x2m capacity. After settling the tailing will be stacked in the tailing dump yard. Garland drain will be constructed along the tailing stack and any leachate out of the tailing dump will pass through the garland drain which connects to the ETP.</td></tr>
<tr><td>xxiii)</td><td>Has any socio-economic study undertaken? If so, the report be submitted. Is not, be undertaken by an institute of repute and report submitted</td><td>The socio-economic study has been carried out for the project and incorporated as a part of EIA report. Further the report is attached for reference.
Annexure 11</td></tr>
</table>

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC decided to consider for grant of Environmental Clearance after a site visit by the sub-Committee of SEAC.

(XIII) PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR DHUNKAPARA DECORATIVE STONE MINES OVER AN AREA 23.337 HA (TOTAL AREA UNDER CLUSTER-55.8HA) IN DHUNKAPARA VILLAGE, TAHASIL- POLSARA IN THE DISTRICT-GANJAM, ODISHA OF SMT M.M. ANNAPURNA (PROPRIETOR) - EC

1. This is a proposal for Environmental Clearance for Dhunkapara Decorative stone mines over an area 23.337 ha (Total area under cluster-55.8Ha) in Dhunkapara Village, Tahasil-Polsara in the District-Ganjam, Odisha of Smt M.M. Annapurna (Proprietor).
2. A cluster of Decorative stone mines at-Dhunkapara, covering an area of 55.8ha in village Dhunkapara under Polosara tahasil of Ganjam District, Odisha owned by three lessees and leased out for 20yrs as follows.
   a) M/s Iliyas Granites, M L area allocated 14.933 ha, Khata No- 1382 Plot No- 1261/p,1265, 1271, 1272/p.
   b) M/s Amar Jyoti Granites, M L area allocated 17.530 ha. Khata No- 1382 Plot No- 1262, 1263, 1264, 1274 & 1276.
   c) M/s M. Mathrusri Annapurna, M L area allocated 23.337ha, Khata No- 1382 Plot No- 1275,1276, 1277, 1278, 1279 &1497
3. As per order issued by MoEFCC dated 24.12.2013 for cluster equals or exceeding 25 ha, mining operations in any of the mine lease areas in the cluster will be allowed only if the environmental clearance has been obtained in respect of the cluster.
4. TOR granted by SEAC in its meeting held on Dt: 17.03.2018 and issued vide letter No.301/SEAC-122 on 23.04.2018.
5. The mining plan is prepared as per rule 15 and 12 of GCDR and rule 21 of OMMC,2016. The total estimated reserve is for 16, 83,323 m3 and the production from plan periodwill be maximum 1,95,660 m3 in plan period. Geologically the reserve is categorized as Charnockite in the name of commercial granite.
6. The entire M.L area is in hilly waste land under the revenue class of Parbat and the tenant is “Abad Ajogya Anabadi” of Govt. of Odisha. The proposed mining is by open cast and semi mechanized method with deployment of machines like Jack Hammer, Drill Compressors, Hydraulic Excavators and Tippers. This will be a single shift mining, only during the day time on six days a week basis. Height and width of the benches will be maintained at 6m each and overall slope angle at 450 with the horizontal. As there is hardly any overburden, therefore most of the waste would be from dressing of the blocks and the rejected blocks which will be stacked in a designated area as per the mining plan.
7. The M.L area is covered in Survey of India Toposheet no E45A13 (74A/13) and bounded by latitude:19^0 46’ 13.20” N to 19^0 46’ 28.70” N and Longitude: 84^0 48 12.20” E to84^0 48’

45'.20" E. There is no agricultural or grazing land within the lease hold area. Close to the lease boundary in the same village there is another similar quarry of Iliyas Granites &Amar Jyoti Granite. This ML area is accessible from Jagannathpur through NH 5 via Polosara and 1 km from Buguda-Polosara main road with connecting moorum road. The nearest railway station is at Humma located at a distance of 80 km from the ML area. The nearest habitation is at Dhunkapara at a distance of 750 m from the lease boundary.

8. The details of the mines in the cluster are as follows:

Lease Name	ML area in ha	Status	Volume of proved mineable reserve (cum) in ML area	Volume of Decorative salable stone in m^3	Excavation in m^3 in plan period	Production in m^3 in plan period (Block + Khanda)	Waste generation in m^3 in plan period	Waste disposal
Smt M M Annapurna	23.337	New	84,16,618	16,83,323	1,05,000	21,000 decorative stones (salable) 21,000(at present non-salable)	63,000	31,500 in road construction & maintenance. 31,500 to be dumbed on 0.768ha land with 5m avg height.
M/s Iliyas Granites	14.933	Operating EC has been granted and operating since 2016	16,07,125	7,23,206	90,660	40,797 decorative stones (salable) 18,132(at present non-salable)	31,731	Around 33% will be used in road construction & maintenance and balance will be dumped on 0.512ha area with 8m avg height.
M/s Amar Jothi	17.53	New	-	-	-	No approved Mining Plan	NA	

Granites						available		

9. **Baseline data** generation was during Summer (Mar – May 2017).
10. **Public Hearing** conducted by OSPCB on 18.09.2019, 11AM at Gram Panchayat office , Dhunkapara. Sri Laxmi Kanta Sethi, A.D.M, Ganjam, presided over the meeting.
11. **Water Requirement** – 1.35 KLD of water shall be required for domestic and mining activities and will be sourced by tubewells.
12. **Power Requirement -** 500 KVA for both to be sourced from DG sets.
13. **Employment Potential**: Total number of employee will be around 35 which includes skilled, semi-skilled & unskilled category in the mine.
14. M/s M M Annapurna has no plan for blasting and will have semi mechanized mining with no pollution. Budgetary provision has been kept for protection of this Schedule-I Pea fowl by planting tall trees for their shelter, water tanks in summer and creating awareness among local people against hunting if any of these birds for feathers treading. The temple will not be demolished.
15. **CER Activities -**The company will spent Rs.2 lakhs against CER activities which includes plantation of tall tree sapling, conservation of peacocks, maintenance of approach road and installation of small water tanks for public usage in summer.
16. M/s M M Annapurna Mines has planned to develop green belt over an area of 2.198 ha in 7.5m safety zone along lease boundary at the end of plan period with 1500 trees consisting of Mango, Neem, Mahaneem, Chakunda, Accacia etc
17. The **project cost** is Rs.176.42 lakhs. Funds for Environment Management : A sum of Rs.6.75 Lakh will be spent towards capital cost for EMP and a sum of Rs.97,000 will be spent towards annual recurring cost of EMP22.0 Lakhs (Capital).
18. The Environment consultant **M/s Global Tech Enviro Experts Pvt. Ltd., Bhubaneswar** along with the proponent have made a detailed presentation on the proposal before the Committee.
19. The SEAC in its meeting held on Dt: 30.09.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent.

20. The project proponent has furnished compliances as desired by the committee on dated 11.11.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Detail Management of erosion as it a sloppy land	Dead terraces of the dump area to be covered by plantation and coir matting. Plantation and catch drain in dead slope of the dump will prevent soil erosion. The Dump area will have retaining wall in slope area, over flow

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		of which after major settlement will come to garland drain and finally to settling tank, this system will help in preventing erosion.
(ii)	Mitigation measures to reduce impact on mining as Baghua Dam is close to project site	Baghua Dam is situated 25 km away from the project site in the North eastern side. It is an Earthen Dam. Its Live storage volume is 27.4 million cubic mtr. Maximum height above bottom floor is 23.35mtr.Chance of dam water entering into mine area is not envisaged
(iii)	Minutes of public hearing to be submitted	Public Hearing was conducted on 18.09.2019 at 11.00 AM at GP office, Dhunkapara village, under Polsara Tehsil of Ganjam District. The meeting was presided by Sri Laxmikanta Sethi, ADM, Ganjam. Minutes of Public hearing is attached as Annexure-I.
(iv)	Details of microorganism activities on that area to be studied	Decorative stone does not contain any toxic material but contains only stone dust which will be settled in settling pond. Clean water from settling pit of both the mines will be used for dust suppression and green belt development. Balance water will flow through slope of the area to land surface. However we do agree to engage agency to study microorganism activities in buffer zone of ML area.
(v)	Details of plantation plan to be done alongside periphery of cluster to conserve Blackbuck species	The perimeter of the cluster of three decorative stone mines comes to 4.64km which will be covered with ever green tall trees like Mango, Neem, Mahaneem & Jamun etc. as a conservation measure for shelter and roosting of Peafowl. There is no report of presence of Blackbuck species in the area. Year wise plantation during 5yr plan period has been proposed is submitted.
(vi)	Details of drainage plan proposed	There are no perennial or seasonal water courses within the lease area of the cluster.Surface run-off water flowing from the Dump will be checked through retaining wall and over flow water will pass through garland drain and tank pond. A settling tank will be constructed to arrest silt and sediment flow from mining operations and water so collected will be utilized for the mine area, roads, green belt development etc. The drains will be regularly de-silted and maintained. Quarry water will be canalized through peripheral/garland drain to settling tank and then will be released to nearest natural course
(vii)	Mitigation measures to be taken to reduce fluoride content in soil and water	During base line study of 10km radius buffer zone of project site soil, surface and ground water samples were collected and on analysis it is found that ground water contains Fluoride <0.001 mg/l, Surface water contains

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		Fluoride within 0.9mg/l and soil report does not show any Fluoride content. More over Charnockite is the decorative stone of cluster of mines that include M M Annapurna mine. The chemical composition of charnockite can be represented by the following system of oxides: SiO2 -Al2 O3 -FeO-MgO-K2 O-Na2 O-Ti2 O-H2O. This indicate that the rock does not contain Fluoride. So, leaching of Fluoride from rock to soil or water is not envisaged
(viii)	Blasting provision is there or not? This has to be clarified	No blasting has been proposed by M/s Annapurna for extraction of decorative stone from its 23.337 Ha ML area. Open cast semi-mechanized without blasting method will be adopted.
(ix)	Details of habitational area and distance from the mine	List of 22 villages has been submitted.
(x)	Details of other mines within 500 meter radius of the periphery of the mine	Two decorative stone mines namely M/s Illiyas Granite o 14.933ha of ML area & M/s Amarjyoti Granite (India) Pvt.ltd on 17.530 ha of ML area are in cluster with M/s M M Annapurna, details locations are given below
(xi)	Certificate of concerned Mining Officer about cluster approach	Certificate of Mining Officer, Ganjam Circle, Berhampur about cluster approach is enclosed
(xii)	Details of past year-wise production	Not applicable as this is a new mine waiting for EC before commencement of mining activities,
(xiii)	Periphery of cluster, width of GB proposed and no of plants to be planted be furnished	The periphery of the cluster of decorative stone mines including inter boundary of mines comes to 6.05km and with 7.5m width green belt will be developed @ 2,500 trees per ha. More than 5,500 trees have been proposed by two mines to be planted during plan period of 5yrs. Mining Plan of M/s Amarjyoti Granite (India) Pvt. Ltd is not yet available.
(xiv)	Size of garland drain, retaining wall around waste dump with justification. Adequacy of area assigned for waste dump	❖ Surface run-off water flowing from the Dump will be checked through retaining wall and over flow water will pass through garland drain to settling tank ❖ A settling tank will be constructed to arrest silt and sediment flow from mining operations and water so collected will be utilized for dust suppression in the mine area, roads, green belt development etc. The drains will be regularly desilted and maintained. Dimensions are submitted. As total of 67,000 m3 of waste will be generated during plan period. About 50% of this waste will be utilized con-currently for construction and maintenance of road in the

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		lease area and also will be disposed off as minor mineral other than decorative stone with the permission of the competent authority. The remaining waste will be confined to be dumped on the demarcated area in South & west over 0.768 ha of land at an average of 5.0m height maintaining the overall slope of the dump at 220. The area will be adequate to store the dump.
(xv)	Indicate geo-coordinates with longitude and latitude of the river indicated to be at 700 mtrs distance	Geo coordinates of Baghua River situated 700mtrs from the project site is 19°46'19.30"N/ 84°48'59.17ME
(xvi)	Details of silt management be submitted	❖ Surface run-off water flowing from the Dump area will be checked through retaining wall and over flow water will pass through garland drain to settling tank ❖ A settling tank will be constructed to arrest silt and sediment flow from mining operations. The drains will be regularly de-silted and maintained. ❖ The silt from drains and settling tank will be scooped out and stored. It will be used in green belt and thereafter will be used in mine filling.
(xvii)	Traffic density study at important intersection with public roads and inside the premises as well as intersections of cluster mines by a domain expert be submitted	The proposed truck traffic will be 1 truck/hr. Traffic study was done in mines junction and Buguda junction to determine the traffic conditions. There will be no such impact on average Volume to Capacity (V/C) ratio. The V/C ratio will remain below 0.6 and falls in Category A. This indicates that Level of service (LOS) gives highest driver comfort due to free flowing of vehicles on the above road networks area . The total peak hour traffic at all study corridor on study road network is less than 3,000 PCUs in present base year as well as horizon year. It implies that there is no need for grade separated facility in these intersections as per IRC SP 41 and IRC 62¬1976.
xviii)	MOM of public hearing be submitted. Indicate the mitigation measures of the pollution and environmental issues and CER raised during public hearing as per MOM in physical terms with definite time frame	The cluster will plan for the type of job, budgetary provision and time frames of completion of the work to be taken up for the development of the society. However M Mathrusri Annapurna mines has proposed to spent 1% of its project cost i.e 1.76 lacs against CER activities as its part of responsibility Public hearing has been successfully conducted on 18.09.2019 at Gram Panchayat Office, Dhunkapada by ADM, Ganjam. Public Opinion was in favor of the mine with

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		due protection for peacocks in the area. The issues raised and commitment of the project proponent has been submitted

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Global Tech Enviro Experts Pvt. Ltd., Bhubaneswar**, the SEAC recommended to include the above information in the EIA report in cluster approach and submit the final EIA report to the SEAC.

(XIV) PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR PROPOSED HOUSING PROJECT (RESIDENTIAL USE TYPE) OF OVER AN AREA 3.3621 SQ.MTS OF M/S UTKAL BUILDERS LIMITED AT PATRAPADA, BHUBANESWAR, DIST- KHORDHA OF SRI SHARAD BAID (EC).

1. This is a proposal for Environmental Clearance of M/s. Utkal Builders Limited for Proposed Housing Project (Residential Use Type) of over an area 3.3621 m^2 at Patrapada, Bhubaneswar, Dist-Khordha of Sri Sharad Baid.

2. M/s Utkal Builders Ltd. has proposed for Development of Private Housing Project in area of 2.191 Acres of land in Plot No.: 336/2120, 336/3046, 336/3035, 336/2764, 336, 336/3221, 334/2272 Khata No- 703/362, 703/1499, 703/1496, 703/1222, 703/2256, 703/1720, 703/559, Near NH-16 Road, at Mouza -Patrapada, Bhubaneswar, Odisha-751019

3. The Proposal is for Environmental Clearance for proposed Construction of B+S+17 Storied Residential Building & LB+UB+G+3 Club building. The site co-ordinates are as follows: Latitude- 20° 14' 44.81" N & Longitude - 85° 46' 32.78". The project site is well connected with National Highway-16 (Jharpokharia-Chennai Road). The nearest railway station is Bhubaneswar Railway station at a distance of approx 10.6 Km in South West direction. The nearest airport is Biju Pattnaik Airport Bhubaneswar at a distance of approx. 13.4 Km in South-West direction from project site. The site is located adjacent to the local landmarks, Haridaspur Mosque, Jagannath Temple, Pahala Etc. There is no structure or encroachments on the site. The site is easily accessible from NH-05 Road. The site is located adjacent to the local landmarks such as Arya School of Management & Information Technology, Aspire training academy, DDHB Phase-I Masjid etc.

4. **Meteorology:** The maximum temperature is about 36.0^o C and the minimum temperature is 16.0^o C felt in the area. The average annual rainfall in the area is 1326.16 mm.

5. **The** detailed Area Statement is provided below in Table:

Sl. No.	Particulars	Area (in m^2)
1	Plot Area	8866.66 m^2
2	Total Built up area	33621.35 m^2
3	Total FAR Area	24382.82 m^2

Sl. No.	Particulars	Area (in m^2)
4	Kissam of land	Gharabari
5	Ground Coverage	3015 m^2 (34 % of plot area)
6	Built Up Area (Residential)	26726.55 m^2
7	Built Up Area (Commercial)	6046.76 m^2
8	FAR	2.74
9	Maximum height of building	59 m
10	Road & Paved Area	2483 m^2

Requirement for the project:

6. **Water requirement:** Fresh make up of 103.0 m^3/day will be required for the project which will be sourced from Ground water. Waste water of 131.4 KLD will be treated in a STP of 140 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Near Drain.
7. **Power requirement:** The daily power requirement for the proposed building is preliminarily assessed as 1188 KW (Solar System- 66.3 KW (5.5%) & CESU – 1121.7 KW). In order to meet emergency power requirements during the grid failure, there is provision of 2 nos. of DG set having 500 KVA capacities for power back up in the proposed Building Project.
8. **Rain Water Harvesting:** Rain Water will be harvested through 6 nos. of recharging pits.
9. **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4).
10. **Green Belt Development:** Green belt will be developed over an area of 1,793.52 sqm which is 20.23 % of the plot area; by using the local species like Neem, Karang, Golden Champa, Bakul, Bela, Bottle Palm, Cheekoo, Guava etc.
11. **Solid Waste Management:** From the residential complex solid waste will be generated @ 0.45 kg/person/day, which will be about 337.5 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate coloured dustbins. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste.

    Waste generated from Commercial people will be @ 0.15 kg/capita/day, which will be about 165.0 kg/day. The waste generated from floating population in residents will be @ 0.15 kg/day, which will be 12 kg/day. 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. Around 47.8 kg/day of STP sludge will be generated.

Solid Waste from Residential Population	337.5 kg/day
Solid Waste from Commercial Population	165.0 kg/day
Solid Waste from Floating Population	12.0 kg/day
STP Sludge	65.59 kg/day

Total Solid Waste Generation	580.09 kg/day

12. **Parking Area -** Parking space allotted is 8776.49 sqm. Total parking space equivalent to 259 (ECS) is provided out of which 128 ECS is for residential complex and 131 ECS is for commercial complex.

13. The estimated project cost is ` 40 Cr. and Environment Management Cost ` 2.2 lakhs.

14. Total Population- Residential, Floating/visitors – 830 nos. and Commercial, Floating/visitors – 1100 nos.

15. The project proponent along with the environment consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar** made a detailed presentation before the SEAC.

16. The SEAC in its meeting held on Dt: 17.07.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by visit of Sub-Committee of SEAC to the proposed site.

17. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(xix)	Distance from NH and approach road to NH	The proposed building project site is on the National Highway-16 and the distance of approach road (i.e. Service road to the project site is 30 mtr.). The Google map showing distance of service road to project site is attached in Annexure-1.
(xx)	Distance of municipal drain from the proposed site	The municipal drain from the proposed site is adjacent to the plot i.e. way to Sisu Vihar 30' ft wide road as per the drainage plan vetted by BMC. BMC has already vetted the proposed drainage plan vide their letter no. 4584, dated 12.02.2020. BMC letter & drawing is attached in Annexure-2.
(xxi)	Distance from Eco-Sensitive Zone of Chandaka Dampada Sanctuary. A certificate of concerned DFO to this effect is to be submitted	The proposed project site is outside the Chandaka-Dampara Eco-Sensitive Zone boundary and the distance of Chandaka Damapada Sanctuary is 11.23 km from project site. The Eco-Sensitive Zone map is enclosed in Annexure- 3A and Google map showing distance of Chandaka Damapada Sanctuary is enclosed in Annexure-3B.
(xxii)	Calculation of stack height of DG set is to be provided with sketch of the installation of the DG set at location (not to scale)	For required backup power, 2 nos. of DG Sets are proposed. The exhaust shall be terminated as per pollution norms laid by CPCB. Since our DG Sets location are along the compound wall i.e 28.4 m away from building line, therefore the

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		stack height of the DG Sets of minimum 6 mtr and maximum 8 mtr is sufficient. Detail proposal for DG Sets is attached in Annexure-4.
xxiii)	Adequacy of parking space in commercial portion to be justified	As per BDA Norms, the parking area required for commercial complex is 50%. Accordingly the parking space required for commercial area is 2955.38 sqm which is equivalent to 135 ECS and the parking area provided in the commercial area is 3818.61 sqm which is equivalent to 174 ECS. So the ECS provided in the commercial area is 174 ECS which is sufficient for commercial area.
xxiv)	Entry and exit of residential portion and commercial portion shall be shown clearly in the building plan without any overlap	As per the building plan, two separate entry & exit are provided in the residential and commercial building. The building plan showing entry/exit of residential & commercial building is attached in Annexure-5.
(xxv)	Proposal for PHED water supply in future	We have already applied to PHED for supply of municipal water to our building but PHED supply water is not available in this area. If PHED water supply is available in the area in future we definitely use this water. PHED NoC is attached in Annexure-6.
xxvi)	Soil testing report of the area to be submitted and measures taken if it is in low lying areas / flood prone area	The proposed project site is not coming under the low lying area or flood prone area. Soil Testing has been conducted for testing the strength of the soil. The Soil testing report is attached in Annexure-7.
xxvii)	Detailed solid waste management other than organic waste	Total solid waste generation in the proposed building project is 580 kg/day. Detail solid waste proposal is given in Annexure-8.
xviii)	Detailed e-waste management	Electronic wastes like Television, Monitor, Key Board, Printer, Desktop, Laptop, Telephone, Mobile etc may be generated during the Operation Phase. These wastes contain both precious metals and toxic substances, which if handled properly can result in resource recovery. Various types of above mentioned electrical and electronic wastes generated in the building will be collected separately for transportation to the authorized collection Centre approved by the State Pollution Control Board
xxix)	Land schedule and kissam of land	Total Land Area of proposed project is 8866.66 sqm (2.190 Acres) and the Kissam of land is Gharabadi. Detail Land documents with kissam

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		of land are attached in Annexure-9.
(xxx)	Construction and demolition waste management	The proposed project site is new construction, there is no demolition waste generated in the site. During construction phase, waste generated from construction is used in back filling & Road sub way Construction. 100% construction materials will be used in site. No waste will be disposed in outside the premises.
xxxi)	Detailed revised water balance both for commercial and residential purpose	Total Fresh Water Requirement of the proposed project is 103.0 KLD and the waste water generated for the proposed is 131.4 KLD. 125 KLD of treated water will be available after treatment in STP. Detail Water Balance during Non-monsoon & monsoon season is given in Annexure- 10.
xxxii)	Copy of application submitted to CGWA for permission for drawal of ground water	We are already applied to Central Ground Water Authority vide application no. 21-4/2514/OR/INF/2020, dated 07/07/2020. CGWA Application copy is attached in Annexure-11.
xxiii)	Status of building approval by BDA. Copy of approval letter along with approved building plan if approved by the BDA	Bhubaneswar Municipal Corporation (BMC) has provisionally approved the Building Plan vide letter no. 35225, dated 12.12.2019. BMC provisionally letter is attached in Annexure-12.
xxiv)	Copy of drainage plan vetted by the Planning Member, BDA	BMC has already vetted the proposed drainage plan vide their letter no. 4584, dated 12.02.2020. BMC letter & drawing is attached in Annexure-2.

The SEAC decided to take decision on the proposal after a site visit by the Sub-Committee of SEAC.

(XV) PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF ROURKELA SMART CITY LTD. ROURKELA FOR DEVELOPMENT OF BIRSA MUNDA MULTIPURPOSE SPORTS COMPLEX WITH TRAINING FACILITIES AND MULTILEVEL CAR PARKING (MLCP) WITH TOTAL BUILT UP AREA - 28538.71SQMT. OF SRI. YEDDULA VIJAY (CEO) (EC)

1. This is a proposal for Environmental Clearance of Rourkela Smart City Ltd. Rourkela for development of Birsa Munda multipurpose sports complex with training facilities and multilevel car parking (MLCP) with total built up area - 28538.71sqmt.
2. The project falls under Category “B”, Project or Activity 8 (a) as per schedule of EIA Notification dated 14th Sep, 2006, as amended from time to time.
3. Rourkela Smart City plans to promote the sport spirit of the city by upgrading the existing Birsa Stadium; in a National level Football Stadium with other supporting facilities like

Swimming pool; MLCP; Commercial for the City and Clubbing facilities. The Development is planned to give new and better opportunities to the Citizen of the city of Rourkela.

4. Rourkela city is located at 84.54E longitude and 22.12N latitude in Sundergarh district of Odisha at an elevation of about 219 m (719 ft) above mean sea level. The area of Rourkela is 200 sq. km. approximately.
5. **Climatic conditions -** The temperature of Rourkela varies between 46.3^{o} C during summer (April - July) to 7^{o} C during winter (November to January). The humidity is high in the summer months. The wind flows in summer from south west with a speed of 35- 40 km/hr and in winter season from north east with a speed of 18-24 Km/hr. The annual average rainfall is 128.8 cm.
6. **Location of the project and connectivity** - The geographical coordinates of Birsa Stadium is 22^{0} 13' 30.51'' N and Longitude 84^{0} 52' 6.36'' E and located in survey of India Topo Sheet No – F45G16.It is well located at the heart of the city & close to the Bus Terminus & Railway Station. Nearest Highway is NH-143 at a distance of 4.8km from the project site. Nearest railway station is Rourkela Railway station at 0.5km from project site. Veer Surendra Sai Airport approx. is 118 km from the project site. There is no rivers/nalas near to project site. There are no national parks/Wildlife sanctuaries within 10km radius from the project site.
7. Land Ownership of Birsa Stadium is with Revenue Department (NOC from ADM, Rourkela for development has been issued to RSCL). Under the Rourkela smart city proposal Birsa Munda stadium in the Eastern side of the ABD area is identified for up gradation and has a site area of approximately 47600 sq.m.
8. The Total Plot area: 33,074 m2 and Ground coverage area is 11430 m2 (24% of plot area). The Total Buildup area is 28,540 m2 (60% of plot area). Maximum height of the building will be 22 m. Internal circulation road is 6m wide.
9. The total green area covered will be 29300m2 (61.5% of total plot area)
10. Achieved FAR – 0.38 (1.75 permissible as per RDA norms).
11. Parking facilities - The total capacity of parking in the MLCP is 177ECS. and Surface parking is 97 ECS.
12. The total water requirement is approx. 229.54 KLD, out of which Portable water requirement is 87.34 KLD. And Non-Portable water is 142.20. Source of water is PHED, Rourkela. (186kl/Day will be supplied)
13. Power Requirement – 1.7 MVA with separate connection for Birsa Stadium and MLCP and each at 11 kV voltage level. Source of power is WESCO existing overhead 11 kV voltage level.
14. The proposal consists of MLCP building in the South-West which has basement, ground, first and second floor as parking third and fourth floor of same building is proposed to have commercial activities. The proposal has a swimming pool in the North-East which shall be

used for training purpose and clubbing facility. In the Centre is the main stadium with a main building having all facilities required for a proper game, and seating in other 3 direction. The Main building has facilities like administration office, canteen facility, cubical for coaches, medical and first aid room, changing rooms for players along with attached gym facilities, conference hall and other supporting facilities. The main building in the West is proposed to have a covered seating capacity of around 2000 normal seating and around 30 air conditioned VIP Seating. The North and South block are semi-circle in shape and is proposed to accommodate around 1400 uncovered chairs seating in each block and the East Block it is proposed to accommodate around 4800 uncovered seating. All the 3 blocks above have its supporting facilities and amenities on the ground floor while the seating is proposed on the first floor. The total seating capacity of the stadium is proposed to be around 9600 nos.

15. The project cost is ` 142 Crores.

16. The project proponent along with the environment consultant **M/s Tata Consulting Engineers Ltd., Mumbai** made a detailed presentation before the SEAC.

17. The SEAC in its meeting held on Dt: 12.06.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of Sub-Committee of SEAC.

18. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Distance of site from Durgapur RF and Chirubeda RF, certified by DFO	Details provided in the section 2.3.2. and letter from DFO attached as **Appendix 11**.
(ii)	Land documents with Land schedule and kissam of land	Enclosed as an Appendix 14 of this report
(iii)	Comparative statement of noise and illumination pollution projected during event vs non-event day	Illumination pollution is described in Section 2.1.7 & 2.1.8.
(iv)	Water balance details with RWH pits adequacy	RHW pit adequacy is described in the section2.2.3 (2.2.3.1) and in Appendix 10 of this report. Water balance is provided in Appendix 6 of this report.
(v)	Green belt percentage of total area. Percentage to be increased to minimum 20%	Details provided in the section 2.3.1.
(vi)	Detailed traffic density study with traffic management and traffic decongestion plan shall be done off to ensure that the current level of	Details of traffic assessment carried out are given in the Section 2.5 and **Appendix 13.**

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	service of the roads with in 0.5 km radius of the Project is maintained and improved upon after the implementation of the Project. The study must address the cumulative impact of all developments and increase habitation for the next ten years	
(vii)	Parking Area calculation in ECS on event days	Details are provided in 2.5.2 and Appendix 12 of this report.
(viii)	Status of approval of the building plan by the RDA along with copy of approval letter, if any to be submitted	Now the building plan approval authority is changed from RDA to RMC (Rourkela Municipal Corporation). The proposal is to be submitted to RMC but due to containment of RMC the same shall be submitted later on.
(ix)	Location of DG set to be mentioned in the map	Details are provided in Section 2.2.6. The specification for the DGsets are attached as Appendix 16.
(x)	Details of centralized system for treatment of waste water	Details are mentioned in the Appendix 8.
(xi)	Details of drainage system with drainage map indicating discharge point	Provided as an Appendix 10 of this report.
(xii)	Details of STP, if proposed for the project	At present no separate STP is proposed within the project boundary and all the wastewater/ sewage generated will be sent to the centralized STP proposed for the Rourkela city.
(xiii)	Availability/source of water during summer	The PHED has confirmed and will provide water supply of 187 KL/ day. Letter is attached as **Appendix 7**.
(xiv)	Separate Environmental Cell is proposed for the project. Details of Environmental Cell to be submitted	Details are provided in section 4 of this project. The letter for the formation of Environment Cell is given in Appendix 15.

19. The proposed site was visited by the sub-Committee of SEAC on 25.09.2020. The sub-Committee of SEAC has recommended for grant of Environmental Clearance for the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Tata Consulting Engineers Ltd., Mumbai,** the SEAC recommended for grant of Environmental Clearance for the project valid for a period of 7 years with stipulated conditions as per **Annexure –I.**

02.12.2020
SRI B.P. SINGH
CHAIRMAN, SEAC

02/12/2020
SRI. J. K. MOHAPATRA
MEMBER, SEAC

ER. K.R. ACHARYA
MEMBER, SEAC

2/12/20
DR. K.C.S PANIGRAHI
MEMBER, SEAC

PROF.(DR.) B.K. SATPATHY
MEMBER, SEAC

(DR.) D. SWAIN
MEMBER, SEAC

02.12.2020
PROF.(DR.) H.B. SAHU
MEMBER, SEAC

APPROVED

02.12.2020
CHAIRMAN, SEAC

ANNEXURE - A

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR PROPOSED "ANANYA PALM BEACH" RESIDENTIAL APARTMENT CUM GUEST HOUSE PROJECT IN PLOT NO - 268 (PART) AT MOUZA –SIPASURUBULI, TEHSIL – PURI SADAR, DISTRICT –PURI, OF M/S. PRABHUKRUPA REALITIES PRIVATE LIMITED WITH TOTAL BUILT UP AREA -32,859.52 SQM. (EC)

PART A - SPECIFIC CONDITIONS:

1. Consent to Establish / Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
4. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
5. The proponent shall obtain prior clearance from the Standing Committee of the National Board for Wild Life if the project will be located within any Eco-Sensitive Zone of Wild Life Sanctuary.
6. The site is required to be revisited by the same sub-Committee of SEAC after one year of issue of Environmental Clearance order by SEIAA, Odisha to assess the status of implementation of commitment by the project proponent and conditions of Environmental Clearance order.

TOPOGRAPHY AND NATURAL DRAINAGE

7. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
8. The permission from competent authority will be obtained to discharge the excess storm water to drain if any. The proponent shall renovate the existing drain to accommodate the discharge and maintain it perennially.
9. Permission for construction of drain alongside the adjacent NH under construction for allowing the proponent to discharge the treated waste water as well excess runoff water during monsoon from NH Authority shall be obtained. The construction of drains shall be synchronized with the completion of the construction of the Housing Project.

Environmental Scientist, SEAC

WATER REQUIREMENT, CONSERVATION, RAIN WATER HARVESTING, AND GROUND WATER RECHARGE

10. As proposed, fresh water requirement from ground water shall not exceed 169 m^3 per day.
11. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
12. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA, Odisha along with six monthly Monitoring reports.
13. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
14. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
15. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
16. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
17. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits of adequate nos. shall be provided.
18. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawl of water.
19. The proponent shall keep one bore well as standby domestic water source once municipal water supply is made available in the project area.

SOLID WASTE MANAGEMENT

20. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
21. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
22. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area

shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.

23. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
24. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

SEWAGE TREATMENT PLANT

25. Sewage shall be treated in STP of capacity 240 KLD. The treated effluent from STP shall be recycled/re-used for flushing and gardening.
26. Excess treated water shall be discharged to the drain only after getting the permission from the concerned authority. The proponent shall renovate the existing drain to accommodate the discharge and maintain it perennially. To this effect the proponent has to give a legal affidavit before going for construction activity.
27. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the Public sewer/disposal/drainage systems along with the final disposal point.
28. Separate large recharge pits shall be constructed inside the project area to accommodate the rainwater in case the housing project period and the CDP of the Govt. does not synchronize with reference to construction of road and drain.
29. No sewage or untreated effluent water would be discharged through storm water drains.
30. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
31. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
32. The proponent shall obtain permission from the concerned authority to discharge the liquid waste to any drain i.e. the competent authority of the drain and “Nala” before commencement of any activity at the project site.

ENERGY

33. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC

specifications.

34. Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

35. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.

36. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

37. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

38. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

AIR QUALITY AND NOISE

39. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

40. AII construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.

41. **Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory**

Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

42. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
43. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.
44. Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

GREEN COVER

45. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m^2 of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 1863.39 sqm (20.11 %) of plot area shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

46. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

TRANSPORT

47. A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
    - Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
    - Traffic calming measures
    - Proper design of entry and exit points.
    - Parking norms as per local regulation
48. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project.
49. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic

management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

50. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
51. A dedicated entry/exit and parking shall be provided for commercial activities.
52. Barricades shall be provided around project boundary.
53. Speed of the vehicles shall be restricted upto 15 kmph by erecting speed bumps at regular intervals at project site and proper signage shall be provided for guided vehicular movement and speed restrictions.
54. Parking shall be prohibited on the access road to the proposed project site.
55. Footpath shall be seamless with sufficient width.
56. No vehicles shall be allowed to stop and stand in front of the gate on main access.
57. A buffer of minimum 10 m shall be maintained between the entry/exit gate and the road to avoid traffic congestion.
58. The Traffic Management Plan prepared by the proponent shall be duly validated and certified by the State Concerned Competent Authority and shall have also their consent before implementation.

ENVIRONMENT MANAGEMENT PLAN

59. An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

OTHERS

60. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
61. A First Aid Room shall be provided in the project both during construction and operations of the project.
62. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
63. As per the MoEF&CC, Govt. of India Office Memorandum F.No.22-65/2017-IA.III dated 1st

May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(ll) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

PART B – GENERAL CONDITIONS

1. A copy of the Environmental Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
2. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to the SEIAA, Odisha and MoEF&CC, Govt. of India and its concerned Regional Office.
3. Officials from the Regional Office of MoEF&CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.
4. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Odisha.
5. The SEIAA, Odisha reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
7. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
8. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the SEIAA, Odisha. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of

MoEF&CC, Bhubaneswar.

9. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

11. The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC, Govt. of India by E-mail.

Environmental Scientist, SEAC

ANNEXURE - B

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR ROURKELA SMART CITY LIMITED FOR CONSTRUCTION OF ROURKELA ONE (COMMAND AND CONTROL CENTRE, AUDITORIUM, CONVENTION CENTRE AND TRIBAL MUSEUM) AT – ROURKELA, ODISHA UNDER SMART CITY MISSION (BUILT UP AREA - 26956.71 SQMT) OF SRI YEDDULA VIJAY (CHIEF EXECUTIVE OFFICER) - EC

PART A - SPECIFIC CONDITIONS:

1. Consent to Establish / Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
4. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
5. The proponent shall obtain prior clearance from the Standing Committee of the National Board for Wild Life if the project will be located within any Eco-Sensitive Zone of Wild Life Sanctuary.

TOPOGRAPHY AND NATURAL DRAINAGE

6. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
7. The permission from competent authority will be obtained to discharge the excess storm water to drain if any.

WATER REQUIREMENT, CONSERVATION, RAIN WATER HARVESTING, AND GROUND WATER RECHARGE

8. As proposed, fresh water requirement from ground water shall not exceed 84 m^3 per day.
9. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
10. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA, Odisha along

with six monthly Monitoring reports.

11. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
12. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
13. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
14. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
15. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits of adequate nos. shall be provided.
16. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawl of water.

SOLID WASTE MANAGEMENT

17. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
18. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
19. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
20. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
21. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

SEWAGE TREATMENT PLANT

22. Sewage shall be treated in STP of adequate capacity. The treated effluent from STP shall be recycled/re-used for flushing and gardening.
23. Excess treated water shall be discharged to the drain only after getting the permission from the concerned authority.

24. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the Public sewer/disposal/drainage systems along with the final disposal point.
25. Separate large recharge pits shall be constructed inside the project area to accommodate the rainwater in case the housing project period and the CDP of the Govt. does not synchronize with reference to construction of road and drain.
26. No sewage or untreated effluent water would be discharged through storm water drains.
27. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
28. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

ENERGY

29. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
30. Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
31. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.
32. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
33. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the

construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

34. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

AIR QUALITY AND NOISE

35. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

36. AII construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.

37. **Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.**

38. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

39. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.

40. Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

GREEN COVER

41. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m^2 of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As

proposed, 11483.1 m^2 (22.21%) of plot area shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

42. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

TRANSPORT

43. A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
    - Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
    - Traffic calming measures
    - Proper design of entry and exit points.
    - Parking norms as per local regulation
44. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project.
45. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
46. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
47. A dedicated entry/exit and parking shall be provided for commercial activities.
48. Barricades shall be provided around project boundary.
49. Speed of the vehicles shall be restricted upto 15 kmph by erecting speed bumps at regular intervals at project site and proper signage shall be provided for guided vehicular movement and speed restrictions.
50. Parking shall be prohibited on the access road to the proposed project site.
51. Footpath shall be seamless with sufficient width.
52. No vehicles shall be allowed to stop and stand in front of the gate on main access.
53. A buffer of minimum 10 m shall be maintained between the entry/exit gate and the road to avoid traffic congestion.
54. The Traffic Management Plan prepared by the proponent shall be duly validated and certified by the State Concerned Competent Authority and shall have also their consent before implementation.

ENVIRONMENT MANAGEMENT PLAN

55. An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

OTHERS

56. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

57. A First Aid Room shall be provided in the project both during construction and operations of the project.

58. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.

59. As per the MoEF&CC, Govt. of India Office Memorandum F.No.22-65/2017-IA.III dated 1st May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(ll) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

PART B – GENERAL CONDITIONS

1. A copy of the Environmental Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
2. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to the SEIAA, Odisha and MoEF&CC, Govt. of India and its concerned Regional Office.
3. Officials from the Regional Office of MoEF&CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities

and documents/data by the project proponents during their inspection.

4. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Odisha.
5. The SEIAA, Odisha reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
7. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
8. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the SEIAA, Odisha. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of MoEF&CC, Bhubaneswar.
9. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
11. The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC, Govt. of India by E-mail.

Environmental Scientist, SEAC

ANNEXURE - C

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR ROURKELA SMART CITY LTD. ROURKELA FOR DEVELOPMENT OF BIRSA MUNDA MULTIPURPOSE SPORTS COMPLEX WITH TRAINING FACILITIES AND MULTILEVEL CAR PARKING (MLCP) WITH TOTAL BUILT UP AREA - 28538.71SQMT. OF SRI. YEDDULA VIJAY (CEO) (EC)

PART A - SPECIFIC CONDITIONS:

1. Consent to Establish / Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
4. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
5. The proponent shall obtain prior clearance from the Standing Committee of the National Board for Wild Life if the project will be located within any Eco-Sensitive Zone of Wild Life Sanctuary.

TOPOGRAPHY AND NATURAL DRAINAGE

6. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
7. The permission from competent authority will be obtained to discharge the excess storm water to drain if any.

WATER REQUIREMENT, CONSERVATION, RAIN WATER HARVESTING, AND GROUND WATER RECHARGE

8. As proposed, fresh water requirement from ground water shall not exceed 229.54 m^3 per day.
9. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
10. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA, Odisha along

with six monthly Monitoring reports.

11. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
12. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
13. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
14. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
15. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits of adequate nos. shall be provided.
16. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawal of water.
17. The proponent shall keep one bore well as standby domestic water source once municipal water supply is made available in the project area.

SOLID WASTE MANAGEMENT

18. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
19. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
20. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
21. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
22. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

SEWAGE TREATMENT PLANT

23. Sewage shall be treated in STP of adequate capacity. The treated effluent from STP shall be recycled/re-used for flushing and gardening.

24. Excess treated water shall be discharged to the drain only after getting the permission from the concerned authority.
25. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the Public sewer/disposal/drainage systems along with the final disposal point.
26. Separate large recharge pits shall be constructed inside the project area to accommodate the rainwater in case the housing project period and the CDP of the Govt. does not synchronize with reference to construction of road and drain.
27. No sewage or untreated effluent water would be discharged through storm water drains.
28. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
29. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

ENERGY

30. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
31. Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
32. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.
33. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

34. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

35. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

AIR QUALITY AND NOISE

36. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

37. AII construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.

38. **Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.**

39. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

40. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.

41. Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

GREEN COVER

42. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m^2 of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 29300 sqm (61.5 %) of plot area shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

43. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

TRANSPORT

44. A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
    - Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
    - Traffic calming measures
    - Proper design of entry and exit points.
    - Parking norms as per local regulation
45. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project.
46. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
47. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
48. A dedicated entry/exit and parking shall be provided for commercial activities.
49. Barricades shall be provided around project boundary.
50. Speed of the vehicles shall be restricted upto 15 kmph by erecting speed bumps at regular intervals at project site and proper signage shall be provided for guided vehicular movement and speed restrictions.
51. Parking shall be prohibited on the access road to the proposed project site.
52. Footpath shall be seamless with sufficient width.

53. No vehicles shall be allowed to stop and stand in front of the gate on main access.

54. A buffer of minimum 10 m shall be maintained between the entry/exit gate and the road to avoid traffic congestion.

55. The Traffic Management Plan prepared by the proponent shall be duly validated and certified by the State Concerned Competent Authority and shall have also their consent before implementation.

ENVIRONMENT MANAGEMENT PLAN

56. An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

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7. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
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Environmental Scientist, SEAC

12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC, Govt. of India by E-mail.

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