

Half Yearly Compliance report- Dec 2023

Half Yearly Compliance Report of Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd. for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023).

Shuvam Constructions

To

Regional Officer,

Ministry of Environment Forest & Climate Change,

Integrated Regional Office

A/3, Chandrashekharpur, Bhubaneswar – 751023, Odisha

Date : 01.01.2023

Sub: Half Yearly Compliance Report of Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd. for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023).

Reference: PARIVESH EC proposal number: **IA/OR/MIS/277477/2022**

EC Identification Number: **EC22A038OR194184**

Sir,

With reference to the above cited subject the Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd., was granted by the MoEF&CC GoI on dated 21/07/2022.

No construction has been started on site till date, The compliance report for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023)has been attached with this letter for information and necessary action.

Kindly Acknowledge the same.

Jayesh Patel

Thanking You

Yours Faithfully

Director

SHUVAM CONSTRUCTION PRIVATE LIMITED

Copy to:

1. Member Secretary, Odisha State Pollution Control Board
2. Member Secretary, State Environmental Impact Assessment Authority, Odisha

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(I) Basic Information

S. No.	Item	Details
1.	Name of the project/s	High Rise Residential Apartment Project
2.	S. No. in the schedule	8 (b): Building & Construction Project
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of wells to be drilled	Plot Area = 7,292.374 m ² (1.802 acres) Total Built up Area = 26,683.892 Sq.m.
4.	New/Expansion/Modernization	New
5.	Existing Capacity/Area etc.	Nil
6.	Category of Project i.e. 'A' or 'B'	Category B
7.	Does it attract the general condition? If yes, please specify.	No
8.	Does it attract the specific condition? If yes, please specify.	No
9.	Location Plot/Survey/Khasra No. Village Tehsil District State	Plot no.- 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Khata No.- 348, 474/915, 474/3707, 474/5028,474/4438, 474/4568, 489/246, 474/489, 474/488, Mouza- Patia, Khorda, Bhubaneswar Odisha
10.	Nearest railway station/airport along with distance in kms.	Nearest Railway Station: Patia PH Railway Station (Approx. 2.15 km-East) Nearest Airport: Biju Patnaik Airport (Approx. 9.2 km-South) (Source of information:- Google Image)
11.	Nearest Town, city, District Headquarters along with distance in kms.	Nearest City: Bhubaneswar – 3.5 Km - South District Headquaters: Bhubaneswar

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	Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Vivekananda Marg, Bhubaneswar - 751014
13.	Name of applicant	M/s Shuvam Construction (P) Ltd.
14.	Registered Address	564, Vivekanand Marg, Bhubaneswar - 751002
15.	Address for correspondence : Name Designation (Owner/Partner/CEO) Address Pin Code Telephone No. Fax No. E-mail	Mr. Jayesh Patel Director M/s Shuvam Construction (P) Ltd. 564, Vivekanand Marg, Bhubaneswar 751002 +91-674 2432946 +91-674 2435537 shuvamconstruction@yahoo.co.in
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topsheet.	No
17.	Interlinked Projects	No
18.	Whether separate application of interlinked project has been submitted?	No
19.	If yes, date of submission	No
20.	If no, reason	Not Applicable
21.	Whether the proposal involves approval/ clearance under: if yes, details of the same and their status to be given. (a)The forest (Conservation) act, 1980? (b) The wildlife (Protection) act, 1972? (C) The C.R.Z Notification, 1991?	No
22.	Whether there is any Government	1. NBC, 2016
	Order/Policy relevant/relating to the site?	2. Odisha State Bye Laws
23.	Forest land involved (hectares)	No
24.	Whether there is any litigation pending against the project and /or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project.	No

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Specific Conditions:

Sn	Condition	Compliance
1.	The PP shall obtain the Fire safety recommendations and height clearance from the Airports Authority of India and submit the same to the concerned Integrated Regional Office of the Ministry within six months of the issue of EC letter.	Agreed to comply
2.	Abstraction of ground water shall be subject to the permission of Central Ground Water Authority (CGWA). Fresh water requirement shall not exceed 42 KLD during operational phase.	Complied Obtained - Annexure 3
3.	As proposed, wastewater shall be treated in onsite STP of 60 KLD capacity. At least 44 KLD of treated water from the STP shall be recycled and re-used for flushing (15 KLD) and for Horticulture (07 KLD). Excess treated water (about 22 KLD) shall be given for watering the external roadside plantation supply to STP treated water agency,	Agreed to comply Will be complied after operation starts.

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	additional plantation as committed. PP shall submit MoU for the disposal of excess treated water (outside the site) to the concerned Integrated Regional Office of MoEF&CC along with six-monthly compliance report.	
4.	The project proponents would commission a third-party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.	Agreed to comply
5.	Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation/greenery will be 1,834.03 sq. m. As proposed, at least 110 trees shall be maintained within the project premises. The landscape planning should include plantation of native species as proposed i.e., <i>Alstonia scholaris</i> , <i>Lagerstroemia flos-reginae</i> , <i>Azadirachta indica</i> , <i>Mimusops elengi</i> and <i>Tamarindus indica</i> . A minimum of 01 tree for every 80 sq. m of land should be planted and maintained. The existing trees will be counted for this purpose. Plantations to be ensured species cut to species planted. 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.	Agreed to comply
6.	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 Housing and Urban Affairs (erstwhile Ministry of Urban Development), Model Building Byelaws,	Agreed to comply

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	2016. As proposed, 13 RWH pits shall be provided by PP for rain water harvesting after filtration.	
7.	The solid waste shall be duly segregated into biodegradable and non- biodegradable components and handled in separate area earmarked for segregation of solid waste, as per SWM Rules, 2016. As committed, biodegradable waste shall be utilized through the OWC to be installed within the site. Inert waste shall be disposed off as per norms at authorized site. The recyclable waste shall be sold to authorized vendors/recyclers.	Agreed to comply Will be complied after operation starts.
8.	Construction & Demolition (C&D) waste shall be segregated and managed as per C&D Waste Management Rules, 2016. The PP shall provide electric charging points for at least 30% of total parking capacity in terms of nos. of vehicles, as committed.	Agreed to comply Will be complied after construction activity starts.
9.	As committed, PP shall ensure installation of solar-based lighting (60kVA) and LEDs (181.44 kVA) to meet 20.12% of total power requirement (i.e. 1200 kVA).	Agreed to comply Will be complied after operation starts.
10.	The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006 as amended. The Project Proponent is under obligation to obtain approvals/clearances under any other Acts/Regulations or Statutes as applicable to the project.	Agreed to comply Agree to comply

Standard Conditions :

	Condition	Compliance
1. Statutory Compliances		
I.	The project proponent shall obtain all	Agreed to comply

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	necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	
II.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightning etc.	Complied Structural Stability certificate has been obtained , copy of the same has been attached as Annexure 4.
III.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	Agreed to comply No forest land involved in this project
IV.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable
V.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Being Complied CTE has been obtained , copy of the same is attached as Annexure 1, CTO will be obtained after completion of project .
VI.	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.	Complied Obtained
VII.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Agreed to comply
VIII.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.	Agreed to comply Will be obtained, if required
IX.	The provisions of the Solid Waste Management Rules, 2016, e-Waste	Agreed to comply

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	(Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.	
X.	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	Agreed to comply

2. Air quality monitoring and preservation

I.	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	Agreed to comply Will be complied after construction activity starts.
II.	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	Being Complied Air Quality test has been conducted at site , reports of the same is attached as Annexure 7
III.	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.	Being Complied Air Quality test has been conducted at site , reports of the same is attached as Annexure 7
IV.	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution ControlBoard.	Agreed to comply Will be complied after construction activity starts.
V.	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building	Agreed to comply Will be complied after construction activity starts.

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	as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.	
VI.	Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	Agreed to comply Will be complied after construction activity starts.
VII.	Wet jet shall be provided for grinding and stone cutting.	Agreed to comply Will be complied after construction activity starts.
VIII.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	Will be complied after construction activity starts.
IX.	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.	Will be complied after construction activity starts.
X.	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.	Will be complied after construction activity starts.
XI.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	Will be complied after construction activity starts.
XII.	For indoor air quality the ventilation provisions as per National Building Code of India.	Will be complied after construction activity starts.

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3. Water quality monitoring and preservation

I.	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	Agree to comply
II.	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Agree to comply
III.	Total fresh water use shall not exceed the proposed requirement as provided in the project details.	Agree to comply
IV.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	Agree to comply
V.	A certificate shall be obtained from the local body supplying water,	Agree to comply
VI.	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.	Agree to comply
VII.	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	Agree to comply
VIII.	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.	Agree to comply

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IX.	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	Agree to comply
X.	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.	Agree to comply
XI.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Agree to comply
XII.	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision, for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.	Agree to comply
XIII.	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	Agree to comply
XIV.	All recharge should be limited to shallow aquifer.	Agree to comply
XV.	No ground water shall be used during construction phase of the project.	Agree to comply
XVI.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA	Agree to comply

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	in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.	
XVII.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	Agree to comply
VIII.	'Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed, in to municipal drain.	Agreed
XIX.	No sewage or untreated effluent water would be discharged through storm water drains.	Agreed
XX.	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.	Agree to comply
XXI.	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	Agree to comply
XXII.	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	Agree to comply

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4. Noise Monitoring and Prevention

I.	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 200U. 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.	Being Complied Air/Water/Noise/Soil Monitoring test has been conducted at the site and report of the same is attached as Annexure -7
II.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Being Complied Noise Monitoring test has been conducted at the site and report of the same is attached as Annexure -7
III.	Acoustic enclosures for DG sets, noise barriers for ground-run bays, car plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Agree to comply

5. Energy Conservation Measures

I.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.	Agree to comply
II.	Outdoor and common area lighting shall be LED.	Agree to comply
III.	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal	Agree to comply

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	mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.	
IV.	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	Agree to comply
V.	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.	Agree to comply
VI.	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	Agree to comply

6. Waste Management

I.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	Agree to comply
II.	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.	Agree to comply

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III.	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	Agree to comply
IV.	Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.	Agree to comply
V.	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	Agree to comply
VI.	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	Agree to comply
VII.	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.	Agree to comply
VIII.	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27 th August, 2003 and 25 th January, 2016. Ready mixed concrete must be used in building construction.	Agree to comply
IX.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	Agree to comply
X.	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing	Agree to comply

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guidelines/ rules of the regulatory authority to avoid mercury contamination.	
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7. Green Cover

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

Half Yearly Compliance Report of Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd. for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023).

8. Transport

I.	<p>A comprehensive mobility plan, as per MoUD best practices guidelines, (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users, The road system can be designed with these basic criteria.</p> <p>a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</p> <p>b. Traffic calming measures.</p> <p>c. Proper design of entry and exit points.</p> <p>d. Parking norms as per local regulation.</p>	Agree to comply
II.	<p>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.</p>	Agree to comply
III.	<p>A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation</p>	Agree to comply

Half Yearly Compliance Report of Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd. for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023).

	of components of the plan which involve the participation of these departments.	
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9. Human health issues

I.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask,	Agree to comply
II.	For indoor air quality the ventilation should be provided as per National Building Code of India.	Agree to comply
III.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Agree to comply
IV.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, centre etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agree to comply
V.	Occupational health surveillance of the workers shall be done on a regular basis.	Agree to comply
VI.	A First Aid Room shall be provided in the project both during construction and operations of the project.	Agree to comply

10. Miscellaneous

I.	'The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.	Agree to comply
II.	The copies of the environmental clearance	Complied

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	shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	
III.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agree to comply
IV.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Agree to comply
V.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus. Any infringements/ deviation /violation of the environmental forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation violation of the environmental/forest/ wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Agree to comply
VI.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organisation.	Agree to comply
VII.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds	Agree to comply

Half Yearly Compliance Report of Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd. for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023).

	earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report	
VIII.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Agree to comply
IX.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Agree to comply
X.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agree to comply
XI.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.	Agree to comply
XII.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF@&CC)	Agree to comply
XIII.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agree to comply
XIV.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agree
XV.	The Ministry reserves the right to stipulate	Agree to comply

Half Yearly Compliance Report of Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd. for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023).

	additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	
XVI.	The Regional Office of his Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.	Agree to comply
XVII.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Agree to comply
VIII.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed

Checklist of Permissions obtained are as follows :

Document	Obtained/Under process
1. Environmental Clearance	Obtained
2. Form 1 and Form 1A	Obtained

Half Yearly Compliance Report of Environmental Clearance of Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd. for the period of 1st April 2023 to 30th Sep 2023 (Dec 2023).

3. Permission Under Sub-Section (3) of the Section-16 of Odisha Development Authority Act'1982 (Odisha Act, 1982), Permission from town planning Authority, BDA/BMC	Obtained , Annexure 2
4. Consent to Establish (CTE) from State Pollution Control Board:	Obtained, Annexure -1
5. Consent to Operate (CTO) from State Pollution Control Board:	Will be obtained after completion of project
6. Ground Water NOC from CGWA:	Obtained - Annexure 3
7. NOC from Airport Authority of India:	Under Process
8. Structural Stability Certificate vetted:	Obtained , Annexure- 4
9. NOC Water Supply and Sewerage Connection	Obtained , Annexure- 5
10. Permission from Drainage Division of CMC for discharge of excess storm water.	Under Process
11. Fire Safety Clearance has been recommended by Odisha Fire Services:	Under process
12. The Traffic Study Report:	Under Process
13. Clearance from Chief explosives for storing diesel for DG sets:	Will be obtained, if required
14. Land documents showing kissam of land as gharabari	Under Process
15. 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.	Under Process
16. EMP	Obtained
17. Constitution of Environmental Management Committee:	Under Process
18. Air Water Noise Soil Quality Test Reports	Obtained , Annexure 7
19. Newspaper Advertisement photo	Under Process



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director
SHUVAM CONSTRUCTION PRIVATE LIMITED
Plot No. 564, Vivekananda Marg, Bhubaneswar,, Orissa-751002

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/OR/MIS/277477/2022 dated 09 Jun 2022. The particulars of the environmental clearance granted to the project are as below.

1. **EC Identification No.** EC22A038OR194184
2. **File No.** 21-57/2022-IA-III
3. **Project Type** New
4. **Category** A
5. **Project/Activity including Schedule No.** 8(a) Building and Construction projects
6. **Name of Project** Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436, 356, 361/5506, 356/5155, 361/5242, 361/2286, 361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s. Shuvam Construction (P) Ltd.
7. **Name of Company/Organization** SHUVAM CONSTRUCTION PRIVATE LIMITED
8. **Location of Project** Orissa
9. **TOR Date** N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 21/07/2022

(e-signed)
Mr. Ashish Kumar
Scientist E
IA - (INFRA-2 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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This has reference to above mentioned proposal No. IA/OR/MIS/277477/2022; received on 9th June, 2022 online through Parivesh Portal for seeking Environmental Clearance (EC) as per provisions under EIA Notification, 2006 as amended under Environment (Protection) Act, 1986.

2. The above-mentioned project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to non-existence of SEIAA in Odisha, the proposal required appraisal at Central level by sectoral EAC.

3. Accordingly, the abovementioned proposal for Environmental Clearance has been examined by the Expert Appraisal Committee (Infra-2) in its 90th meeting held on 14th June, 2022.

4. The details of the project, as per the application and documents submitted by the project proponent, and also as informed during the above-mentioned meeting of EAC (Infra-2) are as under:

- i. The project is located at Plot No. 354, 357/2726, 356/3436, 356, 361/5506, 356/5155, 361/5242, 361/2286, 361/2298, 361/2297, Mouza- Patia, District-Khorda, Bhubaneswar, Odisha. Latitude 20°20'34.16"N and 85°49'11.66"E Longitude.
- ii. The Project is New.
- iii. The total plot area is 7,292.374 sq. m and total construction (Built-up) area of 26,683.892 sq. m. The project will comprise of 03 No Building. Maximum height of the building is 55.81 m. The details of building are as follows:

S. NO.	PARTICULARS	AREA (sq. m)
1.	Plot area	7,292.374
2.	Permissible Ground coverage (@ 40% of the plot area)	2,916.95
3.	Proposed Ground coverage @ 18.18 % of plot area)	1,326.32
4.	Permissible F.A.R (@ 4 of plot area)	29,169.496
5.	Proposed F.A.R (@ 2.70 of plot area)	19,734.51
6.	Non FAR area	41.912
7.	Total Basement Area	6,907.47
a.	Lower Basement	3,453.735
b.	Upper Basement	3,453.735
8.	Total Built-up Area (5+6+7)	26,683.892
9.	Maximum Height of the Building (m) (2B+G+17)	55.81 m
10.	Landscape area (25.15% of plot area)	1,834.03 [Which includes 20.5% area (1,494.93 sq. m) for Green Belt & 4.5% area (328.15 sq. m) for lawn]

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- iv. During construction phase, total water requirement is expected to be 54 KL which will be met by Private Water Tankers. During the construction phase, soak pits and septic tanks will be provided for disposal of wastewater. Temporary sanitary toilets will be provided during peak labor force.
- v. During operational phase, total water requirement of the project is expected to be 57 KLD, the same will be met by 42 KLD fresh water from Ground water, and 15 KLD recycled Water. Wastewater generated will be 49 KLD and it will be treated in STP of total 60KLD capacity. 44 KLD treated water will be generated of which 22 KLD will be reused for flushing (15 KLD) and horticulture (07 KLD). Surplus treated water of about 22 KLD will be used for watering the external roadside plantation supply to STP treated water agency, additional plantation, etc. discharge to external sewer.
- vi. About 344Kg/day solid wastes will be generated in the project. The biodegradable waste 206.4 kg/day will be processed in OWC (2 batches) and the non-biodegradable waste generated 103.2 kg/day will be handed over to authorized local vendor.
- vii. The total power requirement during operation phase is 1200 kVA and will be met from TP Central Odisha Distribution Limited (TPCODL) and one D.G set of total 250 kVA for power back up in the Project. In addition, solar-based lighting (60kVA) and LEDs (181.44 kVA) is proposed to meet 20.12% of total power requirement (i.e. 1200 kVA).
- viii. Electrical Vehicle charging point will be provided for 30% of parking.
- ix. Rooftop rainwater of buildings will be collected in 13 RWH pits.
- x. Submitted the copy of application for fire safety recommendation.
- xi. The project is not located in Critically Polluted area.
- xii. The project is not located within 10 km of Eco Sensitive Zone. NBWL Clearance is not required.
- xiii. Forest Clearance is not required.
- xiv. No court case is pending against the project.
- xv. CRZ Clearance is not required.
- xvi. Total green area will be provided is 1,834.03 sq. m i.e. 25.15% of the plot area; it is proposed to plant about 110 trees. The tree species to be planted with project site are *Alstonia scholaris*, *Lagerstroemia flos-reginae*, *Azadirachta indica*, *Mimusops elengi* and *Tamarindus indica*. No tree cutting is involved in this project.
- xvii. Expected timeline for completion of the project is about 24-36 months.
- xviii. Investment/Cost of the project is ₹100 Cr.
- xix. Employment potential: About 40 persons.
- xx. Benefits of the project: The project is leading to development of the area by providing employment of the local people and better infrastructure.

5. The EAC (Infra 2), based on information and clarifications provided by the project proponent and detailed discussions held on the issues, has recommended granting environment clearance to the project. The aforesaid recommendation of EAC (Infra-2) is subject to certain specific conditions, as stipulated during its 90th meeting held on 14th June, 2022.

6. Based on recommendations of EAC (Infra-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project for Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436,356, 361/5506, 356/5155, 361/5242, 361/2286,361/2298, 361/2297 Mouza-Patia, Bhubaneswar, Dist-Khordha, Odisha by M/s Shuvam Construction Private Limited under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the following specific and standard conditions:

A. Specific Conditions

- i. The PP shall obtain the Fire safety recommendations and height clearance from the Airports Authority of India and submit the same to the concerned Integrated Regional Office of the Ministry within six months of the issue of EC letter.
- ii. Abstraction of ground water shall be subject to the permission of Central Ground Water Authority (CGWA). Fresh water requirement shall not exceed 42 KLD during operational phase.
- iii. As proposed, wastewater shall be treated in onsite STP of 60 KLD capacity. At least 44 KLD of treated water from the STP shall be recycled and re-used for flushing (15 KLD) and for Horticulture (07 KLD). Excess treated water (about 22 KLD) shall be given for watering the external roadside plantation supply to STP treated water agency, additional plantation as committed. PP shall submit MoU for the disposal of excess treated water (outside the site) to the concerned Integrated Regional Office of MoEF&CC along with six-monthly compliance report.
- iv. The project proponents would commission a third-party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- v. Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation/greenery will be 1,834.03 sq. m. As proposed, at least 110 trees shall be maintained within the project premises. The landscape planning should include plantation of native species as proposed i.e., *Alstonia scholaris*, *Lagerstroemia flos-reginae*, *Azadirachta indica*, *Mimusops elengi* and *Tamarindus indica*. A minimum of 01 tree for every 80 sq. m of land should be planted

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and maintained. The existing trees will be counted for this purpose. Plantations to be ensured species cut to species planted. 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.

- vi. 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 Housing and Urban Affairs (erstwhile Ministry of Urban Development), Model Building Byelaws, 2016. As proposed, 13 RWH pits shall be provided by PP for rain water harvesting after filtration.
- vii. The solid waste shall be duly segregated into biodegradable and non-biodegradable components and handled in separate area earmarked for segregation of solid waste, as per SWM Rules, 2016. As committed, biodegradable waste shall be utilized through the OWC to be installed within the site. Inert waste shall be disposed off as per norms at authorized site. The recyclable waste shall be sold to authorized vendors/recyclers. Construction & Demolition (C&D) waste shall be segregated and managed as per C&D Waste Management Rules, 2016.
- viii. The PP shall provide electric charging points for at least 30% of total parking capacity in terms of nos. of vehicles, as committed.
- ix. As committed, PP shall ensure installation of solar-based lighting (60kVA) and LEDs (181.44 kVA) to meet 20.12% of total power requirement (i.e. 1200 kVA).
- x. The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006 as amended. The Project Proponent is under obligation to obtain approvals/clearances under any other Acts/Regulations or Statutes as applicable to the project.

B. Standard Conditions

I. Statutory compliance

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

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- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

II. Air quality monitoring and preservation

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5}) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for

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vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority,

the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvi. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be

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- submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
 - xviii. No sewage or untreated effluent water would be discharged through storm water drains.
 - xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
 - xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
 - xxi. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States

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which have notified their own ECBC, shall comply with the State ECBC.

- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the 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.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

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- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

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

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VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human health issues

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical

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health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

I. Miscellaneous

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- vi. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- vii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and

shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report

- viii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- ix. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- x. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xi. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xvii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

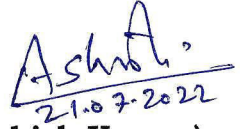
Proposal No. IA/OR/MIS/277477/2022

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

7. The Environmental Clearance is being granted to M/s Shuvam Construction Private Limited for Proposed Project of High-Rise Residential Apartment at Plot No. 354, 357/2726, 356/3436, 356, 361/5506, 356/5155, 361/5242, 361/2286, 361/2298, 361/2297 Mouza-Patia, Bhubaneswar, District Khordha, Odisha.

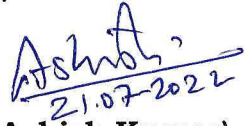
8. This issues with the approval of the Competent Authority.


21.07.2022

(Dr. Ashish Kumar)
Additional Director &
Member Secretary, EAC (Infra-2)

Copy to:

1. The Principal Secretary, Forest, Environment and Climate Change Department, Govt. of Odisha, Kharavel Bhavan, Bhubaneswar, Odisha, India.
2. The Regional Officer, Integrated Regional Office, Ministry of Environment, Forest and Climate Change, A/3, Chandrasekharapur, Bhubaneswar-751023.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, State Pollution Control Board, Head Office, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar - 751012, Odisha.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board/MoEF&CC website.


21.07.2022

(Dr. Ashish Kumar)
Additional Director &
Member Secretary, EAC (Infra-2)

Signature Not Verified

Digitally signed by Mr. Ashish
Kumar
Scientist E

Date: 7/21/2022 6:04:42 PM

**STATE POLLUTION CONTROL BOARD, ODISHA**[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751012No. 8798 /

IND-II-CTE-6852

Date: 31.05.2023
Through online/
By speed post**CONSENT TO ESTABLISH ORDER**

In consideration of the online application no. **4331084** for obtaining Consent to Establish of **M/s Shuvam Construction Pvt. Ltd.**, the State Pollution Control Board is pleased to convey its Consent to Establish under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 for **construction of High Rise Residential Apartment having total built up area of 26,683.892 Square Meter along with installation of DG set of capacity 250 KVA with total project cost of Rs.100 Crores** with following particulars;

Description	Project Details
Built up area	26,683.892 Sqmt.
D.G Set	250 KVA
STP with MBBR & ACF Technology	60 KLD
Project Cost including land and building	Rs. 100 Crores

At Plot No. 354, 357/2726, 356/3436, 356, 361/5506, 356/5155, 361/5242, 361/2286, 361/2298, 361/2297, Khata No. 474/3707, 474/4438, 474/4568, 489/246, 348, 474/489, 474/488, 474/915, 474/5028 At-Mouza-Patia, Tahasil-Bhubaneswar in the district of **Khordha**, Odisha with the following conditions:

GENERAL CONDITIONS:

1. This Consent to Establish is valid for the construction project as mentioned in the application form and for a period of five years from the date of issue of this letter. If the proponent fails to do substantial physical progress of the project within five years, then a renewal of this Consent to Establish shall be sought by the proponent.
2. The Project has to apply for grant of Consent to Operate under section 25 / 26 of Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the occupancy and obtain Consent to Operate from this Board.
3. **This Consent to Establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.**

SPECIAL CONDITIONS:

A. GENERAL CONDITIONS:

1. The proponent shall comply with the stipulations and carry out construction activity as per the Environmental Clearance granted by MoEF&CC, Govt. of India vide EC Identification No.EC22A038OR194184& File No. 21-57/2022-IA-III, Dtd. 21.07.2022.
2. The unit shall obtain NOC from CGWA for using of ground water for getting Consent to Operate of State Pollution Control Board, Odisha.
3. The proponent shall obtain permission from Department of Water Resources, Govt. of Odisha for drawl of ground water and surface water.
4. The proponent shall implement the pollution control measures and safeguards as proposed in the Environment Management Plan (EMP).
5. Solar or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load or 20 W/Sqft. for available roof space, whichever is less.
6. A green belt of adequate width and density preferably with local species along the periphery of the project area shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 20% of the total land area shall be under green cover. The proponent shall ensure the maintenance of green belt throughout the year and for all time to come. It is advised that they may engage professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared and shall be submitted accordingly.
7. Adequate drinking water and sanitary facilities shall be provided for construction workers at the site. Provision shall be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase shall be ensured.
8. All vehicles carrying construction materials to the site shall be covered to avoid spreading of dust. Vehicles hired for bringing construction material at site shall be in good condition and shall have valid Pollution Under Check (PUC) certificate and to confirm to applicable air and noise emission standards and shall be operated only during non-peaking hours.
9. The project shall use fly ash bricks and other building materials made out of fly ash in construction.
10. The construction shall be carried out with the fly ash bricks. If the fly ash bricks are not available locally the construction may be carried out with other bricks with prior intimation to the concerned Regional Office of SPC Board. A statement indicating use of fly ash bricks during construction period shall be submitted to the Board quarterly for record.
11. Use of glass shall be reduced by upto 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflective coating in windows shall be used.

12. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking shall be inside the campus and no public space shall be utilized.
13. Noise shall be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
14. The proponent shall comply to the provisions of E-waste (Management) Rules, 2016 and shall handover E-waste to authorized collection centers / register dismantlers / recyclers for proper disposal of E-waste.
15. Separate collection bin shall be provided inside the building complex for collection of E- waste.
16. The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction & Demolition Wastes Management Rules 2016".
17. The proponent shall comply with the provision made under Plastic Waste Management Rules, 2016 and amendment made thereafter and shall ensure prohibition on use of Single Use Plastics within the premises.
18. All the plastic waste generated from the premises shall be collected and sent for co-processing to the nearby cement kilns and / or registered recyclers under Plastic Waste Management Rules, 2016.
19. Municipal Solid Waste shall be disposed off as per the Solid Waste Management Rules, 2016 and amendment thereafter.
20. The Board may impose further condition or modify the conditions are stipulated in this order during installation and / or at the time of obtaining Consent to Operate and may revoke this order in case the stipulated conditions are not implemented and / or information is found to have been suppressed / wrongly furnished in the application form.

B. WATER POLLUTION:

21. Water Sprinkling shall be carried out in stockpiles and haulage roads in the construction area to suppress fugitive dust emission.
22. Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
23. Fixtures for showers, toilet flushing, and drinking shall be of low flow either by use of aerators or pressure reducing devices or sensor based control.
24. Rainwater harvesting structure inside the premises shall be developed as per the proposal submitted to the Board, (13 Nos. of Recharging pit) to recharge the ground water. Rainwater harvesting structure shall be included from the construction stage itself.
25. The domestic wastewater generated shall be treated in Sewage Treatment Plant of capacity 60 KLD to meet the following standards as notified by the MoEF&CC, Govt. of

India vide G.S.R. 1265 (E), dated 13.10.2017. The treated water shall be reused for flushing, gardening and plantation to the maximum possible extent.

Sl. No.	Parameters	Standards
1.	pH	6.5-9.0
2.	BOD(mg/l)	20
3.	TSS(mg/l)	<50
4.	Fecal Coliform (MPN/100ml)	< 1000

26. The surplus treated wastewater from STP (Sewage Treated Plant) after meeting the above prescribed standard may be discharged to the Existing Drain as shown in Service Site Plan (EIDP Plan) during monsoon months with due permission from competent authority as proposed and steps shall be taken to utilize the treated waste water in the premises during non-monsoon period. The STP shall be made functional before the completion of the housing project.
27. A corpus fund of adequate value shall be created and be kept in a separate account for operation and maintenance of STP and MSW Converter and this fund shall not be utilized for any other purpose.
28. The safe disposal of wastewater and solid wastes generated from washing of painting equipment during the construction phase shall be ensured.

C. AIR POLLUTION:

29. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environment (Protection) Rules prescribed for air and noise emission standards.
30. All vehicles carrying building materials to the site shall be covered to avoid spreading of dust.
31. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase shall be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets shall be equal to the height needed for the combined capacity of all proposed DG sets. Only low sulphur diesel will be used. The location of the DG sets may be decided in consultation with State Pollution Control Board.
32. The height of the stack attached to the D.G set shall conform to the following:

$$H = h + 0.2\sqrt{KVA}$$
 (Where, h = Height of the building where it is installed in meter
 KVA = Capacity of D.G Set and H = Height of the stack in meter above ground level).
33. The proponent shall take adequate measures to prevent noise during loading and unloading of the construction materials in night.
34. The proponent shall also take adequate measures during construction phase to prevent noise and dust pollution to surrounding area.

D. SOLID WASTE:

35. Intermediate storage area of adequate capacity for temporary storage of Municipal Solid Waste (MSW) shall be developed inside the premises before handing over the MSW to the approved agency for final disposal.
36. The solid waste generated from the complex shall be segregated as biodegradable and non-biodegradable. This shall be collected in separate colored bins. Proper waste management practices shall be adopted during the collection, storing and disposal of the generated solid waste.
37. The proponent shall establish Mechanized Organic Waste Converter for processing of Municipal Solid Waste generated from the complex under covered shed to produce organic manure which may be used for development of green belt.
38. Bio-degradable solid waste shall be sent to the organic waste converter for preparation of manure. Non-biodegradable wastes like polythene bags, metal, ceramic waste, glass etc. shall be stored in separate garbage bin and will be sent to approved agency for final disposal. The details of solid waste segregation and disposal method shall be submitted along with CTO application.
39. All required sanitary and hygienic measures shall be in place before starting construction activities and to be maintained throughout the construction phase.
40. All the topsoil excavated during construction activities shall be stored for use in horticulture / landscape development within the project site and shall be covered.
41. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
42. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they shall not leach into the ground water.
43. The Project proponent shall dispose of hazardous waste materials such as tarry products, lead containing products, paints & pigments residues, broken fluorescent and mercury lamps during construction and operational phase as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amended thereafter.
44. The proponent shall submit a separate application for obtaining authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amended thereafter.


MEMBER SECRETARY

To

**The Director,
M/s Shuvam Construction Pvt. Ltd.,
Plot No. 564, Vivekananda Marg, Tahasil-Bhubaneswar,
Dist- Khordha**

Memo No. 8799 / Date 31.05.2023 /



Copy forwarded to:

1. The Collector & District Magistrate, **Khordha**
2. The Commissioner, BMC Bhubaneswar
3. The DFO, **Khordha**
4. Consent to Operate Cell, SPC Board, Bhubaneswar
5. Hazardous Waste Management Cell, SPC Board, Bhubaneswar
6. The Regional Officer, SPC Board, Bhubaneswar
7. Copy to Guard file.

A handwritten signature in blue ink, appearing to be 'A. M.', is written above the title.

ADDL. CHIEF ENV. ENGINEER

o/c

A handwritten signature in black ink, appearing to be 'A. M.', is written below the 'o/c' text.



Bhubaneswar Municipal Corporation Bhubaneswar

No. 28094 /dt. 06-06-2022

File No-MBP-BMC-02-0182/2022

To,

Sri Jayesh Patel (Director)
M/s Shuvam Constructin (p) Ltd.& others
Plot No-564,Vivekananda Marg
Bhubaneswar,
Dist- Khurda-752101

Sub: - **Approval of Proposed 2B+G+17 Multi-Storied Residential Apartment Building and G+1 Storied Community Building over Plot No. 354, 356/3436, 356, 361/5506, 357/2726, 356/5155, 361/5242, 361/2286, 361/2298, 361/2297, Khata No. 474/3707, 474/4438, 474/4568, 489/246, 348, 474/489, 474/488, 474/915, 474/5028 Mouza- Patia in favour of M/S. SHUVAM CONSTRUCTION (P) LTD represented through its Director Mr. Jayesh Patel Power Of Attorney Holder of 1) Kaliash Jena, 2) Pradip Jena@ Pradip Kumar Jena 3) Prasanna Jena @ Prasanna Kumar Jena 4) Pratap Chandra Jena 5) Jagannath Jena, 6) Biswabijayee Jena, 7) Prafulla Jena @ Prafulla Chandra Jena 8) Apsara Jena 9) Sukritibala Jena 10) Sanjukta Raul, 11) Manjubala Jena 12) Pravata Nalini Jena 13) Indira Priyadarshini Jena 14) Priyadarshi Jena (15) M/s. Versatile Construction Pvt.Ltd represented through its Director Sri Anup Kumar Mohapatra 16) Sri Nihar Kanta Chopdar 17) Akash Kumar Mohapatra 18) Suchitra Parida 19) Subhalaxmi Panda 20) Jahnabi Mishra and 21) Basudha Mishra.**

Ref: - Decision of the 18th DP & BP Committee Meeting of BMC.

Sir,

With reference to the subject cited above, It is to inform you that Your proposal has been discussed and approved in the 18th DP & BP Committee Meeting Subject to compliance of the following:-

1. The developer shall free gift 12m strip of land in front which is being presently used as road in favour of BMC, Bhubaneswar.
2. Recommendation towards Fire Safety from Fire Prevention Wing.
3. NOC from PHD towards Water Supply & Sewerage disposal.
4. NOC from Central Ground Water Board.
5. Deposit 1% of External Infrastructure Development fee.



Bhubaneswar Municipal Corporation Bhubaneswar

No. _____/dt. _____

6. Environmental Clearance from State Environment Impact Assessment Authority.
7. One public washroom complex within the plot is to be built as per Rule-50 of ODA (P&BS) Rules-2020.
8. The structural plan & the structural design shall be vetted and certified by any State Resource Centre identified by the Odisha State Disaster Management Authority or Indian Institute of Technology or National Institute of Technology or any other institute of Government of India having structural engineering specialization.
9. Design, Drawing and Calculation of STP from PH Consultant.
- 10 The developer shall deposit shelter fee in lieu of EWS units.
- 11 Solid Waste Management plan and construction and demolition waste management plan.
- 12 The internal roads within the project area are to be constructed using paver blocks.
- 13 Rainwater harvesting system and Rooftop Solar Energy Installation to be provided as per Rule-47 & 48 of ODA (P&BS) Rules-2020.
- 14 The waste generated within the project shall be managed on own arrangement. Mini Composting Plants to be setup for recycling of organic Solid Waste.
- 15 Provision of Green Building Norms as per ODA (P&BS) Rules-2020.
- 16 The developer shall deposit Purchasable FAR in excess of Base FAR.
- 17 Engagement of Project Management Organization.
- 18 Provision of I.C.T. Landing as required under Rule-57 of ODA (P&BS) Rules - 2020.
- 19 Number of car parking space is to be indicated in the building plan which in any case shall not be less than the number of dwelling units of the proposed apartment.
- 20 Provision of a walking track within the project area.
- 21 Submit an indemnity bond towards construction of basement

Yours faithfully,


City Planner

Bhubaneswar Municipal Corporation

Annexure-3



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Shuvam Construction Pvt Ltd		
Project Address:	Plot No.354,356/3436,356,361/5506,357/2726,356/5155,361/5242,361/2286,361/229 8 And 361/2297, Khata No.474/3707,474/4438,474/4568,489/246,348,474/489,474/488,474/915,474/502 8, Mouza-patia		
Town:	Bhubaneswar	Block:	Bhubaneswar
District:	Khordha	State:	Odisha
Pin Code:			
Communication Address:	Shuvam Construction Pvt.ltd, Plot No.564,vivekananda Marg, Bhubaneswar, Bhubaneswar, Khordha, Odisha - 751002		
Address of CGWB Regional Office :	Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneswar, Khordha, Odisha - 750001		

1. NOC No.:	CGWA/NOC/INF/ORIG/2022/16203											
2. Application No.:	21-4/4003/OR/INF/2022	3. Category: (GWRE 2020)	Semi Critical									
4. Project Status:	New Project	5. NOC Type:	New									
6. Valid from:	01/09/2022	7. Valid up to:	31/08/2027									
8. Ground Water Abstraction Permitted:												
Fresh Water		Saline Water		Dewatering		Total						
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year					
55.08	20104.20											
9. Details of ground water abstraction /Dewatering structures												
Total Existing No.:0						Total Proposed No.:1						
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	0	0	0	0	0	0	1	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
10. Ground Water Abstraction/Restoration Charges paid (Rs.):				40209.00								
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers						Monitoring Mechanism					
							Manual	DWLR**	DWLR With Telemetry			
**DWLR - Digital Water Level Recorder	1						0	1	0			

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

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पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

Dr. H. Sharma
Associate Professor

**Indian Institute of Technology,
Guwahati,**
North Guwahati, Guwahati-781 039,
Assam, India.

Phone : +91-361-258- 3326
Fax : +91-361-258-2440
email : shrishi@iitg.ac.in



DEPT. OF CIVIL
ENGINEERING

Date: 23rd January 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the structural design of the Proposed 2B+G+17 High Rise Residential Apartment Building of Applicant/Developer - Mr. Jayesh Patel (Director), Name of Development Firm-Shuvam Construction (P) Ltd. Land Owners- 1)Kailash Jena, 2) Pradip Jena @ Pradip Kumar Jena, 3) Prasanna Jena @ Prasanna Kumar Jena, 4) Pratap Chandra Jena, 5) Jagannath Jena, 6) Biswabijayee Jena, 7) Prafulla Jena, 8) Apsara Jena, 9) Sukritibala Jena, 10) Sanjukta Raul, 11) Manjubala Jena, 12) Pravata Nalini Jena, 13) Indira Priyadarshini Jena, 14) Priyadarshi Jena , 15) M/s Versatile (P) Ltd. represented through its Managing Director - Anup Kumar Mohapatra , 16) Basudha Mishra, 17) Akash Kumar Mohapatra, 18) Jahnabi Mishra, 19) Subhalaxmi Panda, 20) Suchitra Parida, 21) Nihar Kanta Chopdar, Over Plot No:- 354, 357/2726, 356/3436,356, 361/5506, 356/5155,361/5242, 361/2286, 361/2298, 361/2297, Khata No- 348, 474/915, 474/3707, 474/5028,474/4438, 474/4568, 489/246, 474/489, 474/488, Mouza- Patia, Bhubaneswar, Dist. – Khordha has been checked with respect to the requirement of the Indian Standards, IS 456:2000, IS 1893 (Part 1):2016, IS 13920:2016, IS 875 and where ever required, revisions to the structural design and drawings have been recommended to the structural designer of the building. The structural designer has confirmed compliance with required revisions following which the structural design and drawings stand approved.

All the stipulated combination of gravity loads and relevant loads have been considered and are duly incorporated in analysis and design. Signed design reports and drawings have been checked for design as well as detailing. This certificate is purely based on the data provided and does not contain any information about the present health of the structure.

The scope of this certificate is limited only to checking of the structural design and drawings of the above mentioned building and IIT Guwahati assumes no responsibility for the compliance with local, state or national building bye-laws or with any other legal requirements or of safety aspects during construction of the said building. All procedural/legal/operational matters including geo-technical reports, SBC values and depth of foundation for what the structure was designed and architectural/functional details will be responsibility of the owner. It is expected to use specified material grades, proper quality control and construction practices. The assurance of quality control is not within the scope of this proof checking.

Any deviation from the approved layout, design and intended occupancy of the proposed building invalidates this certificate.

With regards



No. 12613 /Date. 02/08/22

To

Sri Jayesh Patel (Director,
M/S Shuvam Construction (P), Ltd & others
Plot No. 564, Vivekananda Marg,
Bhubaneswar, Dist:- Khordha

Sub: Issue of NOC for Water Supply & Sewerage Connection to the proposed 2B+G+17 Multi-Storied residential apartment building & G+1 storied Community Building over plot No. 354, 366/3436, 356, 361/5506, 357/2726, 356/5155, 361/5242, 361/2286, 361/2298, 361/2297 Khata No. 474/3707, 474/4438, 474/4568, 489/246, 348, 474/489, 474/488, 474/915, 474/5028 in Mouza:- Patia, Bhubaneswar.

Ref:- Your application on dated.09.06.2022.

Sir,

This Department has no Objection to have your own water supply and sewerage disposal system of your proposed 2B+G+17 Multi-Storied residential apartment building & G+1 storied Community Building over plot No. 354, 366/3436, 356, 361/5506, 357/2726, 356/5155, 361/5242, 361/2286, 361/2298, 361/2297 Khata No. 474/3707, 474/4438, 474/4568, 489/246, 348, 474/489, 474/488, 474/915, 474/5028 in Mouza:- Patia, Bhubaneswar, as the existing water supply system is inadequate to meet the water demand and there is no sewerage system of WATCO at present. However, when the public water supply will be adequate and sewerage system will be available of WATCO to your proposed project site in future. You should avail both the facilities by making payment towards scrutiny and security fees required for water supply and sewerage connection as per the Odisha Water Works (Urban Local Body) Rule 1980 as amended from time to time. The No Objection Certificate for own water supply and Sewerage disposal system is issued subject to fulfilment of the following conditions.

- 1) You should take permission from Central Ground Water Authority / Central Ground Water Board / Water Resource Deptt. for abstraction of ground water for drinking / domestic purposes.
- 2) After getting approval from BMC and having own W/S arrangement, you should get the W/S samples tested in any Govt. Approved laboratory for portability of water and submit the authenticated test report on every quarter to the concerned Assistant Engineer of PHED of the locality.
- 3) The treated effluent quality of sewerage shall confirm to the effluent standard stipulated by the State / Central Pollution Control Board & relevant B.I.S specification.
- 4) Under no circumstances effluent of septic tank is to be discharged into the existing natural Nullah / water body. You should construct a captive Sewerage Treatment Plant of minimum liquid treatment capacity of 59.0 cum / day as per the requirements stipulated in CPHEEO manual.
- 5) You should also ensure that under no circumstances the environment is polluted due to non functioning / under performance of your sewerage system.

No. 12613

Date. 02/08/22

To

Sri Jayesh Patel (Director,
M/S Shuvam Construction (P), Ltd & others
Plot No. 564, Vivekananda Marg,
Bhubaneswar, Dist:- Khordha

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- 5) You should also ensure that under no circumstances the environment is polluted due to non functioning / under performance of your sewerage system.

- 6) Non-compliance to the above conditions as well as deviation to the undertaking furnished in the form of affidavit shall make you liable for action by the competent authority as per existing laws / rules of Govt. Statutory authority.

Yours faithfully,


Superintending Engineer,
P.H. Division, Bhubaneswar.

Memo No. 12614 dt. 02/08/22

Copy submitted to the Additional Chief Engineer, P.H. Circle, Bhubaneswar for favour of kind information.


Superintending Engineer, (P.H.)


Memo No. 12615 dt. 02/08/22

Copy submitted to the City Planner, Bhubaneswar Municipal Corporation (BMC), Bhubaneswar for information. The building plan may please be approved only after submission of the detailed design & drawing of sewerage treatment plant & sewerage system of desired capacity duly authenticated by any registered PHD consultant.


Superintending Engineer, (P.H.)


Memo No. 12616 dt. 02/08/22

Copy forwarded to the Executive Engineer, Bhubaneswar Municipal Corporation, Division-I, Bhubaneswar for information.


Superintending Engineer, (P.H.)

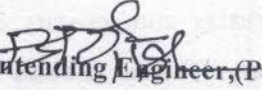
Memo No. 12617 dt. 02/08/22

Copy to the General Manager, WATCO Division-I, Bhubaneswar for information with reference to his letter No. 5536 dated.20.07.2022.


Superintending Engineer, (P.H.)

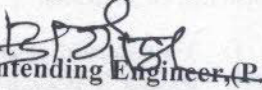
Memo No. 12618 dt. 02/08/22

Copy forwarded to the Sr. Environment Engineer, State Pollution Control Board, A/118, Parivesh Bhawan, Nilakanha Nagar, Bhubaneswar for information.


Superintending Engineer, (P.H.)

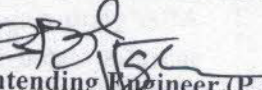
Memo No. 12619 dt. 02/08/22

Copy forwarded to the Sr. Nodal Officer of CGWA in Central Ground Water Board, Bhujal Bhawan, Bhubaneswar-751001 for kind information & necessary action.


Superintending Engineer, (P.H.)


Memo No. 12620 dt. 02/08/22

Copy forwarded to the Executive Engineer, Prachi Irrigation Division, Bhubaneswar for information & necessary action.


Superintending Engineer, (P.H.)


- 6) Non-compliance to the above conditions as well as deviation to the undertaking furnished in the form of affidavit shall make you liable for action by the competent authorities as per existing laws / rules of Govt. Statutory authority.

Yours faithfully,


Superintending Engineer,
P.H. Division, Bhubaneswar.

Memo No. 12614 /dt. 02/08/22

Copy submitted to the Additional Chief Engineer, P.H. Circle, Bhubaneswar for favour of kind information.


Superintending Engineer, (P.H.)


Memo No. 12615 /dt. 02/08/22

Copy submitted to the City Planner, Bhubaneswar Municipal Corporation (BMC), Bhubaneswar for information. The building plan may please be approved only after submission of the detailed design & drawing of sewerage treatment plant & sewerage system of desired capacity duly authenticated by any registered PHD consultant.


Superintending Engineer, (P.H.)

Memo No. 12616 /dt. 02/08/22

Copy forwarded to the Executive Engineer, Bhubaneswar Municipal Corporation, Division-I, Bhubaneswar for information.


Superintending Engineer, (P.H.)

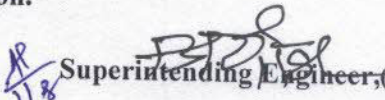
Memo No. 12617 /dt. 02/08/22

Copy to the General Manager, WATCO Division-I, Bhubaneswar for information with reference to his letter No. 5536 dated.20.07.2022.


Superintending Engineer, (P.H.)


Memo No. 12618 /dt. 02/08/22

Copy forwarded to the Sr. Environment Engineer, State Pollution Control Board, A/118, Parivesh Bhawan, Nilakanha Nagar, Bhubaneswar for information.


Superintending Engineer, (P.H.)


Memo No. 12619 /dt. 02/08/22

Copy forwarded to the Sr. Nodal Officer of CGWA in Central Ground Water Board, Bhujal Bhawan, Bhubaneswar-751001 for kind information & necessary action.


Superintending Engineer, (P.H.)

Memo No. 12620 /dt. 02/08/22

Copy forwarded to the Executive Engineer, Prachi Irrigation Division, Bhubaneswar for information & necessary action.


Superintending Engineer, (P.H.)



OFFICE OF THE GENERAL MANAGER
WATCO DIVISION-1, BHUBANESWAR-.751022
Email:-gmdivonewatco@gmail.com

No. /dt.

To,

The Superintending Engineer,
PH Division, Bhubaneswar

Sub: Feasibility report for water supply & sewerage connection from the existing system for proposed 2B+G+17 Multi storied Residential Apartment Building & G+1 Storied Community Building over Plot No.354,366/3436,356, 361/5506,357/2726,356/5155, 361/5242,361/2286,361/2298,361/2297,KhataNo.474/3707,474/4438,474/4568, 489/246, 348, 474/489, 474/488, 474/915,474/5028 in Mouza-Patia , Bhubaneswar by Sri Jayesh Patel (Director of M/S Shuvam Construction (P),Ltd & Others).

Ref:- Your letter No.-10831 dt.10.06.2022

Sir,

With reference to above, I am to intimate you that as reported by the Manager, WATCO Sub Division, Chandrasekharpur that, 100 mm dia water supply pipe line will in capable to provide desired quantity of Water to the proposed 2B+G+17 Multi storied Residential Apartment Building & G+1 Storied Community Building and there is no sewerage disposal system of WATCO near by the Plot. Hence, it is not feasible to provide Water Supply and Sewerage connection to the above mentioned plot. The applicant may be make their own arrangement for water supply & Sewerage connections

Therefore, the building plan, report of the Concerned Manager along with other enclosures are returned herewith for further disposal at your end.

Yours Faithfully

General Manager
WATCO Division-I,BBSR

Memo No. 5537 /dt. 20-7-2022

Copy forwarded to Sri Jayesh Patel (Director of M/S Shuvam Construction (P), Ltd & Others), Plot No.564,Vivekanand Marg ,Bhubaneswar ,Dist-Khordha for information .

General Manager
WATCO Division-I,BBSR
20-7-22



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

NABL ULR NO : **TC1206323000000163**
Test Report No : **KLPL/12/23/ENVN/00025**
Issue Date : 30-Dec-2023
Amendment No : --
Amendment Date : --



TC-12063

Reference : -
Customer Name : **M/S. SHUVAM CONSTRUCTION (P) LTD.**
Address : PLOT NO.564,VIVEKANANDA MARG,NAGESWAR TANGI,BHUBANESWAR,ODISHA

Date of receipt : 27-Dec-2023 **Commenced On** : 27-Dec-2023 **Completion On**: 29-Dec-2023
Sample Name : **AMBIENT AIR QUALITY MONITORING**
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : BY KLPL(MR. SURYANARAYANA BISOYI)
Ref.To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
Location & Date : PROJECT SITE,PATIA,DATE:27/12/2023					
Sulphur Dioxide	µg/m ³	80	9.40	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.25	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	59.35	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	30.31	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.59	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019

Remarks : --

Any unusual feature observed during determination :NIL
Customer information if any :NIL
Confirmation statement as per decision rule , if applicable :N/A

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

***** End of Test Report *****



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

NABL ULR NO : **TC1206323000000164**
Test Report No : **KLPL/12/23/ENVN/00026**
Issue Date : 30-Dec-2023
Amendment No : --
Amendment Date : --



TC-12063

Reference : -
Customer Name : **M/S. SHUVAM CONSTRUCTION (P) LTD.**
Address : PLOT NO.564,VIVEKANANDA MARG,NAGESWAR TANGI,BHUBANESWAR,ODISHA

Date of receipt : 27-Dec-2023 **Commenced On** : 27-Dec-2023 **Completion On**: 28-Dec-2023
Sample Name : **NOISE**
Sample Condition : --
Sample Collected By : BY KLPL(MR. SURYANARAYANA BISOYI)
Ref.To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
Location & Date : PROJECT SITE,PATIA,DATE:27/12/2023					
Noise Level Commercial Area (Day)	dB(A)	75	66.89	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2014):2014
Noise Level Commercial Area (Night)	dB(A)	70	55.76	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2014):2014

Remarks : --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : N/A

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Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

***** End of Test Report *****



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

NABL ULR NO : **TC1206323000000164**

Test Report No : **KLPL/12/23/SOIL/00005**

Issue Date : 30-Dec-2023

Amendment No : --

Amendment Date : --



TC-12063

Reference : -

Customer Name : **M/S. SHUVAM CONSTRUCTION (P) LTD.**

Address : PLOT NO.564,VIVEKANANDA MARG,NAGESWAR TANGI,BHUBANESWAR,ODISHA

Date of receipt : 27-Dec-2023 **Commenced On** : 27-Dec-2023 **Completion On** : 30-Dec-2023

Sample Description : **SOIL SAMPLE**

Form|Shape|Appearance : SEALED IN POLY PACK

Sample Identification : **SOIL**

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 500G

Sample Collection Location, & Date :

Sample Collected By : By KLPL(MR. SURYANARAYANA BISOYI) PROJECT SITE,DATE-27.12.2023

Sampling Procedure if Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Electrical Conductivity	µs/cm	--	70.5	--	IS 14767 : 2000
ii	Available Nitrogen	Kg/Ha	--	87.9	--	KLPL/SOP/SOIL-22 : 2019
iii	Available Phosphorus	mg/kg	--	6.8	--	KLPL/SOP/SOIL-14 : 2017
iv	Available potassium	mg/kg	--	67.5	--	KLPL/SOP/SOIL-19 : 2017
v	Bulk Density	g/cc	--	1.11	--	IS 2720(Part 29) : 1975
vi	Calcium (as Ca)	mg/kg	--	300	--	KLPL/SOP/SOIL-02 : 2017
vii	Iron (as Fe)	mg/kg	--	7005	--	KLPL/SOP/SOIL-33 : 2022
viii	Magnesium (as Mg)	mg/kg	--	240	--	KLPL/SOP/SOIL-02 : 2017
ix	Organic Carbon	%	--	0.18	--	KLPL/SOP/SOIL-09 : 2017
x	pH Value	--	--	4.3	--	IS 2720(Part 26) : 1987
xi	Moisture	%	--	10.9	--	IS 2720(Part 2) : 1973





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Test Report No : KLPL/12/23/SOIL/00005

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
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Remarks : --

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Confirmation statement as per decision rule , if applicable : N/A

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Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

***** End of Test Report *****



KALYANI LABORATORIES PVT. LTD.

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+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

NABL ULR NO : **TC1206323000000163**
Test Report No : **KLPL/12/23/WATER/00114**
Issue Date : 30-Dec-2023
Amendment No : --
Amendment Date : --



TC-12063

Reference : -
Customer Name : **M/S. SHUVAM CONSTRUCTION (P) LTD.**
Address : PLOT NO.564,VIVEKANANDA MARG,NAGESWAR TANGI,BHUBANESWAR,ODISHA
Date of receipt : 27-Dec-2023 **Commenced On** : 27-Dec-2023 **Completion On**: 30-Dec-2023

Sample Description : **DRINKING WATER (IS 10500:2012)**
Form|Shape|Appearance : SEALED IN PET & GLASS BOTTLE
Sample Identification : **GROUND WATER**
Batch No , Lot No : NA **MFG Date** : NA **EXP Date**: NA
Received Quantity : 1L X 4 **Sample Collection Location, & Date** :
Sample Collected By : By KLPL(MR. SURYANARAYANA DAS) **PROJECT SITE BOREWELL,DATE-27.12.2023**
Sampling Procedure if Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
BACTERIOLOGICAL QUALITY						
i	Total Coliforms	MPN/100 ml	Shall not be detected in any 100ml sample	<2	IS : 10500 :2012	IS 1622:1981 RA 2009
ii	E.coli	MPN/100ml	Shall not be detected in any 100ml sample	<2	IS : 10500 : 2012	IS 1622:1981, RA 2009
CHEMICAL PARAMETER						
i	Nitrate as NO3	mg/l, Max	45	<0.05	IS : 10500 :2012	Cl.3.0 of IS 3025 (PART 34): 1988, RA 2019
ii	Chloride (as Cl)	mg/l, Max	250	18.7	IS : 10500 :2012	IS 3025 (Part 32):1988, RA 2019
iii	Fluoride (as F)	mg/l, Max	1	<0.1	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part 60):2008, RA 2019
iv	Iron (as Fe)	mg/l, Max	1	<0.05	IS : 10500 :2012	Cl.6.0 of IS 3025 (Part 53):2003, RA 2019
v	Sulphate (as SO4)	mg/l, Max	200	15	IS : 10500 :2012	Cl.4.0 of IS 3025 (Part 24):1986, RA 2019
vi	Total alkalinity (as CaCO3),	mg/l, Max	200	9.0	IS : 10500 :2012	IS 3025 (Part 23):1986, RA 2019
vii	Total hardness (as CaCO3),	mg/l, Max	200	24	IS : 10500 :2012	IS 3025 (Part 21):2009, RA 2019
PHYSICAL PARAMETER						
i	Colour.	Hazen, Max	5	<1.0	IS : 10500 :2012	Cl.2.0 of IS 3025 (Part 4): 2021
ii	Odour	--	Agreeable	AGREEABLE	IS : 10500 :2012	IS 3025 (Part 5):1983,RA:2012





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Test Report No : KLPL/12/23/WATER/00114

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
iii	pH value	--	6.5-8.5	6.7	IS : 10500 : 2012	IS 3025 (Part-11):1983,RA:2012
iv	Taste	--	Agreeable	AGREEABLE	IS : 10500 : 2012	IS 3025 (Part 8):1984, RA 2017
v	Turbidity	NTU, Max	1	0.8	IS : 10500 : 2012	IS 3025 (Part 10):1984, RA 2017
vi	Total dissolved solids	mg/l, Max	500	60	IS : 10500 : 2012	IS 3025 (Part 16):1984, RA 2017

TOXIC SUBSTANCES

i	Cadmium (as Cd)	mg/l, Max	0.003	<0.001	IS : 10500 : 2012	Cl.5.0 of IS 3025 (Part 41):1992, RA 2019
ii	Cyanide (as CN)	mg/l, Max	0.05	<0.02	IS : 10500 : 2012	IS 3025 (Part 27):1986, RA 2019
iii	Lead (as Pb)	mg/l, Max	0.01	<0.005	IS : 10500 : 2012	Cl.7.0 of IS 3025 (Part 47):1994, RA 2019
iv	Total arsenic (as As)	mg/l, Max	0.01	<0.001	IS : 10500 : 2012	IS 3025 (Part 37):1988, RA 2019

Remarks : --

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Confirmation statement as per decision rule , if applicable : N/A

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Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Rekha Nayak
30/12/2023
For Kalyani Laboratories Pvt. Ltd.

***** End of Test Report *****