Date: 02.12.2024

To,
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment and Forests and Climate Change,
Regional Office (Southern Zone),
Kendriya Sadan, 4th Floor, E & F Wings,
17th Main Road, Koramangala II Block,
Bengaluru -560 034

Sub: Submission of six-monthly compliance report to EC condition.

Ref: Environmental clearance copy with File No. 3-181-2010/STE-DIR/169 dated on 28-11-2019.

Dear Sir,

With respect to the above subject and reference, Goa State Level Environmental Impact Assessment Authority, has issued Environmental Clearance for the Modification of Residential Apartment and commercial shops project **"Mathias Ocean Park"** at Survey No. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa by M/s. Mathias Construction Pvt. Ltd. In this regard we are submitting six monthly compliance report along with Annexures for a period of **April 2024 to September 2024**.

Kindly consider and acknowledge the same.

Thanking you.

Yours faithfully,
For Mathias Construction Pvt. Ltd.,

(Joe Mathias)
Managing Director

MATHIAS CONSTRUCTION PVT. LTD.
"MATHIAS HOUSE"
Campal, Panaji - Goa. 403 001. Tel.: +91 0832 2425454
W : www.mathiasgoa.com E : mathias@mathiasgoa.com
CIN : U45201GA1994PTC001685

PARIVESH ACKNOWLEDGEMENT

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	0000
Compliance ID	115204684
Compliance Number(For Tracking)	EC/M/COMPLIANCE/115204684/2025
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	18-01-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	GOA
RO/SRO Office Address	Integrated Regional Offices, Bengaluru
Note:- SMS and E-Mail has been sent to V Geroge Jenner, GOA with Notification to Project Proponent.	

EC COPY

GOA STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
EIA-Goa State Secretariat,
1st Floor, Dempo Towers, Patto, Panaji, Goa – 403 001
Phone nos.: 2416561 Fax. no.: 2438528
e-mail: goaseac@gmail.com

No: 3 – 181 – 2010/STE-DIR/169 *Date: 28/ 11/ 2019*

To,

Joe Mathias,
Managing Director,
Mathias construction Pvt. Ltd,
Mathias House, Campal,
Panaji-Goa.403001

Sub: Prior environmental clearance for modification of the project "Ocean Park''-Residential Apartment and Commercial Shops project located at survey No.249/1-A, Taleigao Plateau, Dona –Paula, Tiswadi Goa.

I am directed to refer to your application (*i.e. Form-1, Form-1A*) dated 26/12/2018 seeking prior Environmental Clearance (EC) as mandated in the EIA Notification, 2006 (*as amended till date*) for modification of the project "Ocean Park''-Residential Apartment and Commercial Shops project located at survey No.249/1-A, Taleigao Plateau, Dona –Paula, Tiswadi Goa. Accordingly, the above proposal has been appraised under '**8(a) – B2 category**': *Building and construction project*. Subsequently, the Goa State Expert Appraisal Committee (*Goa-SEAC - hereinafter referred as 'Committee'*) conducted the site-inspection on 09/01/2019 and was followed by project-specific presentation by the NABET/QCI-accredited environmental consultant (Enviro Resources, Mumbai on behalf of project proponent) made the project-specific presentation during 102nd Goa-SEAC meeting held on 25/02/2019. During said meeting the committee sought various compliances which were submitted by the project proponent on 01/04/2019. The Committee perused the said compliances during its 105th Goa-SEAC meeting held on 25/04/2019 and after detailed discussion and deliberation decided to recommend the said proposal to State Environment Impact Assessment Authority (Goa-SEIAA *hereinafter referred as 'Authority'*) for grant of EC.

Project details and salient features of the proposed developmental activity, as submitted by the proponent, is as under –

Sl. No.	Description	Details
1.	Name & location of the project	**MATHIAS OCEAN PARK** **M/S.MATHIAS CONSTRUCTIONS PVT LTD** At Sy. No 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Taluka, Goa
2.	Plot Area	82,220 (20.3 Acres).
3.	Net plot Area	82,220 (20.3 Acres).
4.	FSI Area Non-FSI Area Total construction Area Building configuration & Height of the building	C-1 : 1.99 (permissible = 2.00) C-2 : 1.49 (permissible = 1.50) Proposed - 31,858.73 Sq.m Total BUA - 64,348.38Sq.m Zone C-1: **Sector 4** : B + Stilt /G + 8F Height 24m **Sector IIIC** : G + 2 Floors Zone C-2: **Sector -1** : Stilt + 7 Floors Height 20.5m
5.	No. of shops	7 Shops
6.	Total water requirement(Construction/operation phase)	Construction - 22 KLD Operation- 319 (Fresh water + Recycling water)
7.	Sewage generation	276 KLD
8.	STP Capacity	1X105 KLD 1X175 KLD)
9.	Total Solid Waste Quantities	661 Kg/day
10.	RG Area	21,503.35 (26%)
11.	No. of trees	Proposed - 190 Nos.
12.	Energy Efficiency	26.4%
13.	Parking 4 W	REQUIRED: 664 nos. PROVIDED: 677 nos.
14.	Power requirement	2631 kVA
15.	D.G set Capacity	2 X 320 KVA and 2X150 KVA
16.	RWH tank capacity	90 cum
17.	EMP cost (including DMP cost)	Capital cost - 115.00 Lakhs Operating cost - 22.00 Lakhs/A
18.	No. of trees to be cut	10 Nos.
19.	No. of tress to be planted on site	190 Nos. along with existing trees.
20.	CRZ status	Not Applicable.

The Authority during 48th meeting held on 14/06/2019 took note of the recommendation from the Goa-SEAC and all the compliances submitted by the project proponent. Accordingly, the authority decided to conduct a site visit of the proposed site to ascertain the status of proposed project on points like waste management including STP capacity, biodegradable waste proposed, proposed solar panels. Accordingly the Authority conducted site inspection on 13/09/2019 and sought above compliances, which were submitted by the project proponent on 24/09/2019. The said proposal was deliberated during 49th Goa-SEIAA meeting held on 21/11/2019 wherein the Authority after detailed discussion and deliberation decided to recommend the said proposal for grant of Environmental clearance EC under the provision of EIA Notification 2006 (as amended) with the condition that Project proponent must submit a concrete proposal for proposed CSR for Taleigao village.

I. Further Project proponent has to comply with following **"General Conditions"**:-

i. PP should prioritize the issues related to health and hygiene in complying with the matters related to waste disposal and treatment / air and water pollution / waste-water management.

ii. Water harvesting ought to be done by the project proponent to the extent of 90 KLD.

iii. The PP shall install bio methanation plant to tackle bio degradable waste generated at the site and the non biodegradable waste shall be placed in a transfer station to be constructed by the PP within the complex having separate containers for e waste glass waste plastic waste , robber waste.

iv. PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body. E-waste shall be disposed through Authorised vendor as per E-waste (*Management and Handling*) Rules, 2011.

v. Project Proponent (PP) should necessarily make appropriate provision while constructing the roof-tops at the time of construction stage only to enable installation of solar panels towards south facing walls as and when made applicable in future.

vi. The Project Proponent shall utilize fly ash bricks in masonry works.

vii. The PP shall use construction debris for land filling wherever applicable.

viii. 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.

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

x. 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.

xi. 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.

xii. 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.

xiii. Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.

xiv. The project proponent will provide landscape bed of 600mm wide X 600mm deep along the periphery of the plot to carry out plantation of trees. The treated water from the sewage treatment plant will be pumped through high flow drips on these beds to prevent outflow of treated sewage water outside the premises.

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xvi. Areas which are marked as **No Development Zone (NDZ)** should be year marked on site and no construction shall be carried out in the said NDZ. Land Profile of NDZ shall not be altered.

xvii. No construction shall be carried out in the property which is identified as private forest, if any.

xviii. PP should obtain all the requisite permissions/NOCs/Licenses etc from all the competent authorities before commencement of any activity at site.

2. Further, the Authority has decided that PP needs to comply to the following **"additional specific Conditions":-**

i. Sewage Treatment Plant (STP) contract should be for minimum period of 5 years with operation and maintenance contract after commissioning /completion of project.

ii. PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body.

iii. E-waste shall be disposed through Authorised vendor as per E-waste (*Management and Handling*) Rules, 2011.

iv. Project Proponent (PP) should necessarily make appropriate provision while constructing the roof-tops at the time of construction stage only to enable installation of solar panels towards south facing walls as and when made applicable in future.

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xiv. PP should prioritize the issues related to health and hygiene in complying with the matters related to waste disposal and treatment / air and water pollution / waste-water management.

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xxv. Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.

xxvi. The project proponent will provide landscape bed of 600mm wide X 600mm deep along the periphery of the plot to carry out plantation of trees. The treated water from the sewage treatment plant will be pumped through high flow drips on these beds to prevent outflow of treated sewage water outside the premises.

xxvii. PP shall make provision for charging points for electronic vehicles in the parking Area.

3. **Project Proponent should implement Dust mitigation measures for construction activities such as:**

   a. Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).

   b. No excavation of soil shall be carried out without adequate dust mitigation measures in place.

   c. No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.

   d. Wind-breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided.

   e. Water sprinkling system shall be put in place.

   f. Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.

   g. New serial number '107' has been inserted which relates to Mandatory Implementation of Dust Mitigation Measures for all Construction and Demolition Activities:

h. Grinding and cutting of building materials in open area shall be prohibited.

i. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.

j. No uncovered vehicles carrying construction material and waste shall be permitted.

k. Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site

Further, progress will be reviewed after six months *(minimum 3 times in a year) depending upon progress of the work.* Further, the compliance to these conditions as and when submitted by PP will be verified /ascertained by the authority to propose additional conditions if any.

4. Further, the Authority has decided that PP needs to comply to the following **"General Conditions"**:-

a. The PP should use Ready-Mixed Concrete (RMC) to minimize air / water / land pollution and water usage during the construction phase.

b. ***Solar power generation*** – Every major consumer of conventional power will have to generate and opt for certain percentage of power generation from the non-conventional sources. In this context, Project Proponent (PP) should necessarily make appropriate provision while constructing the roof-tops at the time of construction stage only to enable installation of solar panels as and when made applicable in future. In addition, south-facing walls to be utilized to install solar panels to harness optimum solar energy. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heater system. PP should install, after checking feasibility, solar-plus-hybrid non-conventional source as source of energy.

c. PP should adopt roof-top rainwater harvesting / conservation measures to optimally utilize the water availability by constructing sumps for collection of rainwater as per the site-specific location details provided.

d. PP should prioritize the issues related to health and hygiene in complying with the matters related to waste disposal and treatment / air and water pollution / waste-water management.

e. PP should not disturb the natural drainage and as far as possible and maintain the original topography while designing for landscape development by planting local plant species and which are not alien to the prevailing environment.

f. PP should clarify any issue related to public objections, if any, and should not conceal the scientific facts in light of the proposed developmental activity vis-à-vis its landuse categorization / zoning.

g. PP should submit half-yearly compliance report(s) in hard as well as soft copy format to the Authority for the period upto project completion.

h. This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any, from time to time. Judgements / Orders issued by Hon'ble High Court, NGT, Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified by the competent authorities.

i. PP should ensure and ascertain that **'civil plans'** which were submitted to the Committee/ Authority during the process of project appraisal be submitted to other line Departments / agencies concerned while seeking NOC / Consents/ Permissions, as applicable. If any discrepancy is found in the plans submitted or details provided may be reported to this Authority. This environmental clearance is issued with respect to the environmental considerations and it does not mean that Goa-SEIAA approved the proposed land.

j. PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body. STP of suitable capacity shall be installed considering the quantity / quality of waste water generation.

k. E-waste if any shall be disposed through Authorised vendor as per E-waste (*Management & Transboundary Movement*) Rules, 2016.

l. This environmental clearance is issued subject to obtaining NOC from the Forestry & Wildlife angle including clearance from the Standing Committee of the National Board for wildlife, if applicable. The grant of environmental clearance does not necessarily imply that Forestry & Wildlife clearance has been granted to the project, which has to be dealt separately by the competent authorities in accordance with law.

m. The height, construction gross built up area of proposed construction is **64,348.38 Sq.mts** shall be in accordance with the existing FSI/ FAR norms of the local body and planning authorities and it should ensure the same along with survey number before approving layout plan and before according commencement certificate to proposed work, Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.

n. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.

5. Further, the PP is required to comply with the following **"General Conditions" during construction phase.-**

a. 'Consent to Establish' shall be obtained from the Goa State Pollution Control Board (GSPCB) under Air Act and Water Act, as applicable and a copy shall be submitted to the Authority within 30 days of starting construction work at site.

b. Permission to draw groundwater, as applicable, shall be obtained from the Groundwater Cell of the Water Resources Department (WRD) government of Goa.

c. Project proponent shall not make any change in the Surface Layout Plan / Civil Plan submitted to the Authority without its prior permission. **In case of any change(s) in the scope of the project and/or otherwise, the project proponent need to inform this Authority.**

d. Project proponent shall make suitable provisions for sewage / wastewater disposal and storm water release independently.

e. The diesel generator sets (D.G. set) to be used during construction / after commissioning should be low-sulphur diesel type and should conform to Environment (*Protection*) Rules prescribed for air and noise emission standards as laid down by the Goa State Pollution Control Board (GSPCB).

f. The installation of the Sewage Treatment Plant (STP) if any should be certified by the GSPCB and a report in this regard should be submitted to the Authority before the STP is commissioned.

g. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and first aid room etc.

h. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of waste water and solid waste generated during the construction phase should be ensured.

i. The solid waste generated should be properly segregated. Dry /inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.

j. Disposal of muck during construction phase should 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 site with the approval of competent authority.

k. Arrangements shall be made that waste water and storm water do not get mixed.

l. All the top soil excavated during construction activities should be stored if or use in horticulture/landscape development within the project site.

m. Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.

n. Green-belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the State Forest / Agriculture Department.

o. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

p. Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they should not leach into ground water.

q. Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary authorisation of the GSPCB.

r. The diesel requires for operating DG sets shall be stored in underground tanks and if required, Clearance from concerned authority shall be taken.

s. 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 standard and should be operated during non-peak hrs.

t. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level construction phase, so as to conform to the stipulated standard by CPCB/ GSPCB.

u. The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquakes, adequacy of fire fighting equipments etc. as per National Building Code (NBC) including measures from lighting.

v. Storm water controlled and its re-use as per Central Ground Water Board (CGWB) and Bureau of Indian Standards (BIS) for various applications.

w. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

x. The groundwater level and its quality should be monitored regularly in consultation with ground water authority of the Water Resources Department (WRD), Government of Goa.

y. The installation of the sewage treatment plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the GSPCB before the project is commissioned for operation. Treated effluent released from STP shall be recycled / refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharged in the sewer line. Treatment of 100% grey water through the centralised treatment should be done. Necessary measures should be adopted to mitigate the odour problem from STP.

z. Use of glass may be reduced upto 40% to reduce electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.

aa. Roof should meet prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material.

bb. Energy conservation measures like installation of LEDs' for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use of CFLs / TFLs, if any, should be properly collected and disposed off / sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination.

cc. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase 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 combine capacity of all proposed DG sets.

dd. Noise should 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.

ee. Traffic congestions near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalised and no public place should be utilised.

ff. opaque wall should meet prescriptive requirement as per energy conservation board which is proposed to mandatory for all air conditioned spaces while it is aspiration for non- air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.

gg. The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

hh. Regular supervision of the above and other measures for monitoring should be in placed all through the construction phase, so as to avoid disturbance to the surroundings.

ii. Under the provisions of Environment Protection Act 1986, legal action shall be initiated against the PP if it was found that construction of the project has been started without obtaining EC.

jj. Six monthly compliance reports should be submitted to the MOEF with copy to the Goa-SEIAA and GSPCB.

6. Further, the Authority decided to direct the PP to comply with the following **"General Conditions" during post-construction phase:-**

a. PP shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. The PP to explore possibility of utilising excess treated water in the adjacent area for gardening before discharging into sewer line. No physical occupation of allotment will be given unless all above said environmental infra structure is installed and made functional including water requirement prior certification from appropriate authority shall be obtained.

b. Wet garbage should be treated by organic waste convertor and treated waste (manure) should be utilise in the existing premises foe gardening. And no wet garbage will be disposed outside the premises. Local authority should ensure compliance to this.

c. A complete set of all the documents submitted to Goa-SEIAA should be forwarded local authority, GSPCB and Planning authority.

d. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the Goa-SEIAA.

e. Separate funds shall be allocated for implementation of environmental protection measures /EMP along with item wise breaks-up. The funds earmarked for the environment protection measures shall not be diverted for other purposes.

f. A copy of the environmental clearance letter shall be sent by PP to the concerned Village Panchayat and planning authority as applicable, from which suggestions / representation, if any, were received while processing the proposal. The EC letter shall also be put on the company's website by PP within one week time period from date of issue of environmental clearance.

g. The PP shall upload the status of the compliance of the stipulated EC conditions, including results of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF & CC, the respective Zonal office, CPCB and the GSPCB. The pollutant levels in respect of SPM, RSPM, SO_2 and NO_X (*ambient levels as well as D.G. stack emissions*) shall be monitored.

h. The environmental statement for each financial year ending 31st March in Form-V is to be submitted to the GSPCB as prescribed under the Environment (*Protection*) Rules 1986 (as amended) and subsequently shall also be put on the company's website along with the status of the compliance of the EC conditions and shall also be sent to the respective Regional Office of the MoEF & CC.

i. Consent to Operate shall be obtained from GSPCB before operation, failing which the Environmental Clearance herein shall be deemed to be withdrawn.

j. Sewage Treatment Plant (STP) shall be installed at site. The STP should be certified by an independent expert and adequacy report in this regard should

be submitted to GSPCB before the project is commissioned for operation. Necessary measures should be made to mitigate the odour problem from STP.

k. The solid waste (dry as well as wet garbage) generated should be properly collected and segregated. Organic Waste Converter shall be installed by RWA for the treatment of biodegradable (wet) garbage generated within the housing complex. Non-Biodegradable waste should be outsourced properly after recovery of recyclable material. Adequate measures should be taken to prevent odour problem.

l. Utilization of Diesel power generating sets is subject to power failure condition only. The DG sets proposed as a source of power back up during operation phase should be of enclosed type, low sulphur diesel run and conform to rules made under the Environment (Protection) Act, 1986. The DG sets should be subjected to periodic noise and stack monitoring in consultation with GSPCB. Waste/used diesel should be stored and managed as per the Hazardous and other Wastes *(Management & Transboundary Movement)* Rules, 2016 as amended.

m. Noise should be controlled to ensure that it does not exceed the prescribed standards both during day & night time.

n. The ground water drawl from existing/proposed bore wells if any should be done only with the prior permission of Ground Water Board. The ground water level and its quality should also be monitored regularly both during construction and operation phase in consultation with Ground Water Board.

o. Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.

p. Energy Conservation measures such as solar lighting for common area, solar water heating system, CFLs/TFLs for lighting of areas, LED lights for signage, solar inverters on the etc should be adopted.

q. Used CFLs/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.

r. A Report on energy conservation measures conforming to energy conservation norms finalized by Bureau of energy Efficiency should be prepared incorporating details about building materials and technology, R & U factors

etc and submit to the State Expert Appraisal Committee and a copy to GSPCB in three months time.

7. Further this EC is issued without prejudice to the action initiated in the Environment (*Protection*) Act or any court case pending in the court of law. As such, it does not mean that the PP has not violated any environmental laws in the past and whatever decision under the said Act by the Hon'ble Court will be binding on the PP. **Hence, this environmental clearance does not give immunity to the PP in the case complaint is filed against, if any, or action initiated under the said Act**.

8. In case of submission of false document and non-compliance to any of the stipulated conditions, this Authority will revoke or suspend the EC without any intimation and initiate appropriate legal action under the Environment (*Protection*) Act, 1986 (*as amended till date*).

9. E-waste generated in the complex should be managed as per CPCB guidelines on E-waste management.

10. The Goa-SEIAA reserves their right to add any stringent condition or to revoke the environmental clearance, if conditions stipulated above are not implemented to the satisfaction of the Authority or for that matter, for any other administrative reasons.

11. **In addition**, the following conditions shall be specifically complied with:

    1. Project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Konkani or Marathi language within **seven days** of receipt of this communication, informing that the proposed project has been accorded prior Environmental Clearance (EC) and the copies of the clearance letter will be available on the PP website.

    2. **Validity of the Environmental Clearance (EC) accorded shall be for a period of 07 (seven) years from the date of its issue.**

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

    4. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority.

5. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.

6. Any appeal against this prior environmental clearance shall lie with the National Green Tribunal (NGT), if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010 (*Central Act 19 of 2010*).

Yours faithfully,

28/11/19

(Johnson Fernandes)
Director Environment &
Member Secretary, Goa-SEIAA

****

Copy for favour of information to:

1. **Shri. Vivekanand L. Sawkar, (Chairman, Goa-SEIAA),** F-2 Soarcs Enclave, Near Basilo's Health Club, St. Inez, Panaji, Goa.

2. **Prof. Suhas Godse, (Chairman, Goa-SEAC),** H. No. 5258, Faket, Nr. Pandurang Temple, Opp. Workshop Taleigao, Goa

3. **P. A. to Principal Secretary (Environment),** Secretariat, Porvorim, Goa.

4. **P. S. to Additional Secretary**, Ministry of Environment & Forests (MoEF), Paryavaran Bhavan, C.G.O. Complex, Lodhi Road, New Delhi – 110 510.

5. **Addl. Director General (C),** Ministry of Environment & Forests (MoEF), Regional office (Southern Zone), Kendriya Sadan, IV floor, E & F Wings, 17th main road, 11nd Block, Koramangala, Bengaluru-560034.

6. **Member Secretary,** Goa State Pollution Control Board (GSPCB), Opp Saligao Seminary, Saligao, Bardez, Goa.

7. **The Collector & District Magistrate, (North),** Office of the Collector (North), Panaji-Goa.

EC COMPLIANCE REPORT

SIX MONTHLY COMPLIANCE REPORT FOR STIPULATED CONDITIONS TO ENVIRONMENTAL CLEARANCE

(MONITORING PERIOD: APRIL 2024 TO SEPTEMBER 2024)

Prepared for

"MATHIAS OCEAN PARK"

MODIFICATION FOR DEVELOPMENT OF RESIDENTIAL APARTMENT AND COMMERCIAL SHOPS

AT

SY. NO. 249/1-A, TALEIGAO PLATEAU, DONA-PAULA,
TISWADI GOA

PROJECT BY,

M/s. MATHIAS CONSTRUCTION PVT. LTD.

MATHIAS HOUSE, CAMPAL, PANAJI,
GOA - 403001

Prepared By,

AM ENVIRO ENGINEERS

[ISO 9001-2015 CERTIFIED COMPANY]
(QCI/NABET Accreditation No. NABET/EIA/2326/RA 0306_Rev 01)
No. 90/1, 2nd FLOOR, RATHNAVILAS ROAD, BASAVANAGUDI,
BENGALURU - 560 004
PH. NO.: 080 2657 6577

DETAILS OF THE PROJECT

1	*File No.*	*No. 3-181-2010/STE-DIR/169 dated on 28-11-2019*
2	*Project name & Type*	***"MATHIAS OCEAN PARK"*** *Modification for development of Residential Apartment & Commercial Shops.*
3	*Project Location*	*249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa*
4	*Name of the project proponent*	***M/s. Mathias Construction Pvt. Ltd.*** *Mathias House, Campal, Panaji, Goa – 403001*
5	*Total Site Area*	*82,220 Sqm (20.3 Acres)*
6	*Total Built-up area*	*64,348.38 Sqm*
7	*Project description*	*Comprises of 2 zone* *Zone C-1: Sector-4: B+G+8UF -24m* *Sector IIIC: G+2 floors* *Zone C-2: Sector-1: S+7UF -20.5m*
8	*EMP Cost of the project*	*Capital cost – 115 Lakhs* *Operating Cost – 22 Lakhs/Annum*
9	*STP capacity*	*105 & 175 KLD*
10	*DG Set*	*2×320 kVA, 2×150 kVA*
11	*Monitoring period*	*April 2024 to September 2024*
12	*Status of the project*	*Under Operation*

COMPLIANCE TO EC CONDITIONS

Sl. No.	Condition	Compliance to Condition
I.	**Further project proponent has to comply with following "General Conditions"**	
i)	Project proponent should prioritize the issues related to health and hygiene in complying with the matter related to waste disposal and treatment/ air and water pollution/ waste water management.	Adequate external tanker water is used for drinking purposes for all workers and STP treated water for construction purposes. Sanitary facilities of mobile toilets are provided inside the premises during construction for all workers. The generated sewage will be discharged to septic tank followed by soak pit, generated solid waste is collected in separate bin and will be handed over to authorized vendor. Hence, safe waste disposal practice has been adopted to ensure no harm to the environment.
ii)	Water harvesting ought to be done by the project proponent to the extent of 90 KLD.	Noted and is being implemented.
iii)	The project proponent shall install bio methanation plant to tackle bio degradable waste generated at the site and non-biodegradable waste shall be placed in a transfer station to be constructed by the PP within the complex having separate containers for e-waste, glass waste, plastic waste, robber waste.	Bio degradable waste generated at the facility is composted in organic waste converter within the facility and non-biodegradable waste is handed over to authorized vendor.
iv)	PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body. E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2011.	During Construction phase: The generated sewage was discharged to Septic tank followed by soak pit. During Operation phase: The methodology adopted for treatment of wastewater in 2 STP. The entire wastewater generated is treated and used for non-portable purpose such as toilet flushing, gardening after disinfection process. Generated E-waste is stored in designated place and same will be handed over to authorized vendor.

v)	Project Proponent (PP) should necessarily make appropriate provision while constructing the roof tops at the time of construction stage only to enable installation of solar panels towards south facing walls as and when made applicable in future.	Noted and being followed.
vi)	The project proponent shall utilize fly ash bricks in masonry works.	For mass concreting works such as footing, slabs and main beams, factory made premixed concrete is used. In this type of concrete fly ash is invariably used.
vii)	The PP shall use construction debris for land filling wherever applicable.	The construction debris are laid along the proposed inter connected roads as base layers. This could marginally save on the construction of road and solve the problem of the disposable of construction debris.
viii)	At least 20% of the open spaces as required by the local planning bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.	Noted and sufficient area is reserved for landscape and trees are developed by providing native species.
ix)	Compliance with the energy conservation building code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the states which have notified their own ECBC, shall comply with the state ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window and roof u-values shall be as per ECBC specifications.	Noted and is being complied.
x)	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.	Water Efficient Green Sanitary Fixtures has been used to reduce water consumption.

xi)	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.	Noted and installed dual pipe plumbing for the project. Complete wastewater is taken to STP and treated water is used for non-portable purposes such as flushing, thermal cooling, gardening. Fresh water is used for drinking purpose.
xii)	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.	Complete waste water is being taken in the STP and treated water is used for non-portable purposes.
xiii)	Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.	Solar power panels are installed in the terrace area to generate power and same is being used within the project to reduce power demand on the grid.
xiv)	The project proponent will provide landscape bed of 600mm wide × 600mm deep along the periphery of the plot to carry out plantation of trees. The treated water from the sewage treatment plant will be pumped through high flow drips on these bed to prevent outflow of treated sewage water outside the premises.	Noted and is followed. Landscape bed of 600mm wide x 600mm deep is provided for plantation of trees, treated sewage water is pumped through high flow drips to prevent outflow of treated sewage water outside the premises.
xvi)	Areas which are marked as No Development Zone (NDZ) should be year marked on site and no construction shall be carried out in the said NDZ. Land profile of NDZ shall not be altered.	Noted. No construction activity commenced within NDZ.
xvii)	No construction shall be carried out in the property which is identified as private forest, if any.	Not applicable
xviii)	PP should obtain all the requisite permissions/NOCs/Licenses etc from all the competent authorities before commencement of any activity at site.	All the approvals with respect to project development has been obtained includes Environmental clearance, Consent for Establishment and NOC for supply of drinking water.
II.	**Further, the Authority has decided that PP needs to comply to the following "additional specific conditions"**	
i)	Sewage treatment plant (STP) contract should be for minimum period of 5 years with operation and maintenance contract after commissioning/ completion of project.	Noted and is being followed.

ii)	PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body.	Noted and treated water is utilized within the facility for non-portable purposes.
iii)	E-waste shall be disposed through authorized vendor as per E-waste (Management and Handling) Rules, 2011.	Generated E-waste is stored in designated place and the same will be handed over to authorized vendor.
iv)	Project proponent (PP) should necessarily make appropriate provision while constructing the roof-tops at the time of construction stage only to enable installation of solar panels towards south facing walls as and when made applicable in future.	Noted and is being complied.
v)	The project proponent shall utilize fly ash bricks in masonry works.	Environment friendly materials is used and has been followed during construction phase.
vi)	The PP shall use construction debris for land filling wherever applicable	The construction debris are laid along the proposed interconnected roads as base layers. This could marginally save on the construction of road and solve the problem of the disposable of construction debris.
vii)	At least 20% of the open spaces as required by the local planning bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	Noted and 20% area is provided for landscape to develop trees by providing native species.
viii)	Compliance with the energy conservation building code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the states which have notified their own ECBC, shall comply with the state ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window and roof u-values shall be as per ECBC specifications.	Noted and followed.
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	Water Efficient Green Sanitary Fixtures have been used to reduce water consumption.

	incorporated in the building plan.	
x)	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.	Complete wastewater is taken to STP and treated water is used for non-portable purposes such as flushing, thermal cooling, gardening.
xi)	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.	Complete waste water is taken into STP for sewage treatment and dual plumbing line is provided for recirculation of treated water.
xii)	Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.	Noted and implemented.
xiii)	The project proponent will provide landscape bed of 600mm wide × 600mm deep along the periphery of the plot to carry out plantation of trees. The treated water from the sewage treatment plant will be pumped through high flow drips on these bed to prevent outflow of treated sewage water outside the premises.	Noted and complied.
xiv)	Project proponent should prioritize the issues related to health and hygiene in complying with the matter related to waste disposal and treatment/ air and water pollution/ waste water management.	Adequate External tanker water used for drinking purposes for all workers and STP treated water for construction purposes. Sanitary facilities are provided inside the premises during construction for all workers. The generated sewage is discharged to septic tank followed by soak pit, generated solid waste is collected in separate bin and is handed over to outside truck. Hence, safe waste disposal practice has been adopted to ensure no harm to the environment.
xv)	PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body.	Noted and followed.
xvi)	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2011.	Generated E-waste is stored in designated place and handed over to authorized vendor.
xvii)	Project Proponent (PP) should necessarily make	Noted and complied.

	appropriate provision while constructing the roof tops at the time of construction stage only to enable installation of solar panels towards south facing walls as and when made applicable in future.	
xviii)	The project proponent shall utilize fly ash bricks in masonry works.	For mass concreting works such as footing, slabs and main beams, factory made premixed concrete is used. In this type of concrete fly ash is invariably used.
xix)	The PP shall use construction debris for land filling wherever applicable	The construction debris are laid along the proposed inter connected roads as base layers. This could marginally save on the construction of road and solve the problem of the disposable of construction debris.
xx)	At least 20% of the open spaces as required by the local planning bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	Noted and followed accordingly.
xxi)	Compliance with the energy conservation building code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the states which have notified their own ECBC, shall comply with the state ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window and roof u-values shall be as per ECBC specifications.	Noted and complied.
xxii)	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.	Water Efficient Green Sanitary Fixtures are used to reduce water consumption.
xxiii)	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,	Noted and installed dual pipe plumbing for the project. Complete wastewater is taken to STP and treated water is used for non-

	thermal cooling, conditioning, etc. shall be done.	portable purposes such as flushing, thermal cooling, landscape irrigation, car washing. Fresh water is used for drinking , cooking, bathing purpose.
xxiv)	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.	The complete wastewater is generated at the facility is being taken into STP and treated water is used for nonportable purpose.
xxv)	Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.	Noted and complied.
xxvi)	The project proponent will provide landscape bed of 600mm wide × 600mm deep along the periphery of the plot to carry out plantation of trees. The treated water from the sewage treatment plant will be pumped through high flow drips on these bed to prevent outflow of treated sewage water outside the premises.	Noted and complied.
xxvii)	PP shall make provision for charging points for electronic vehicles in the parking area.	Noted and being followed.
3.	**Project proponent should implement Dust mitigation measures for construction activities such as:**	
a.	Roads leading to or at construction sites must be paved and blacktopped (i.e, metallic roads)	Noted and has been compiled by providing provision of blacktopped in driveway to avoid dust emission during construction phase.
b.	No Excavation of soil shall be carried out without adequate dust mitigation measures in place	Precautionary Measures has been taken by installing metal sheet barricades which surrounds the project site.
c.	No loose soil or sand or construction or Demolition waste or any other construction material that causes dust shall be left uncovered.	Noted and followed during construction phase.
d.	Wind-breaker of appropriate height i.e, 1/3rd of the building height and maximum up to 10 meters shall be provided.	Noted and followed.
e.	Water sprinkling system shall be put in place.	Noted and has been followed during construction phase.
f.	Dust mitigation measures shall be displayed	Noted and has been followed during

	prominently at the construction site for easy public viewing.	construction phase.
g.	New serial number "107" has been inserted which relates to Mandatory Implementation of Dust mitigation Measures for all construction and Demolition activities.	Noted and followed the same by sprinkling water to prevent dust emission.
h.	Grinding and cutting of building materials in open area shall be prohibited.	Noted and followed.
i.	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	Noted and followed accordingly.
j.	No uncovered vehicles carrying construction material and waste shall be permitted.	Vehicles hired for bringing construction material to the site were in good condition and covered with tarpaulin.
k.	Construction and Demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.	The construction debris are laid along the proposed inter connected roads as base layers. This could marginally save on the construction of road and solve the problem of the disposable of construction debris.
4	**Further authority has decided that PP needs to comply to the following "General Conditions"**	
a	The PP should use Ready-Mixed concrete (RMC) to minimize air/water/land pollution and water usage during the construction phase	Ready mixed concrete has been used in the construction of building during construction phase.
b	Solar Power generation – Every major consumer of conventional power will have to generate and opt for certain percentage of power generation from the non-conventional sources. In this context, project proponent (PP) should necessarily make appropriate provision while constructing the roof-tops at the time of construction stage only to enable installation of solar panels as and when made applicable in future. In addition, south-facing walls to be utilized to install solar panels to harness optimum solar energy. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heater system. PP should install, after checking feasibility, solar-plus-hybrid non-conventional source as source	Noted and followed the same.

	of energy.	
c	PP should adopt roof-top rainwater harvesting/conservation measures to optimally utilize the water availability by constructing sumps for collection of rainwater as per the site-specific location details provided.	The rooftop rainwater is being collected by providing tank and same will be utilized within the facility after pretreatment.
d	PP should prioritize the issues related to health and hygiene in complying with the matters related to waste disposal and treatment / air and water pollution/ waste-water management.	Noted and followed.
e	PP should not disturb the natural drainage and as far as possible and maintain the original topography while designing for landscape development by planting local plant species and which are not alien to the prevailing environment.	The natural sloping pattern of the project site is unaltered. And proposed 580 no's of tree species as landscape development within the project.
f	PP should clarify any issue related to public objections, if any, and should not conceal the scientific facts in light of the proposed developmental activity vis-à-vis its landuse categorization/zoning	Noted and followed.
g	PP should submit half-yearly compliance report(s) in hard as well as soft copy format to the Authority for the period upto project completion	Half yearly compliance is being submitted regularly to Regional Office, MoEF&CC, Bengaluru.
h	This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc_ issued if any, from time to time. Judgements / Orders issued by Hon'ble High Court, NGT, Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified by the competent authorities.	Noted.
i	PP should ensure and ascertain that 'civil plans' which were submitted to the Committee/ Authority during the process of project appraisal be submitted to other line Departments / agencies concerned while seeking NOC/ Consents/ Permissions, as applicable, If any discrepancy is found in the plans submitted or details provided may be reported to this Authority. This environmental clearance is	Noted.

	issued with respect to the environmental considerations and it does not mean that Goa-SEIAA approved the proposed land.	
j	PP needs to ensure that no treated water or any waste sewage shall be discharged into any water body. STP of suitable capacity shall be installed considering the quantity /quality of waste water generation.	The methodology adopted for treatment of wastewater in 2 STP. The entire wastewater generated at the facility is being treated and used for non-portable purpose such as toilet flushing, HVAC and gardening after disinfection process.
k	E-waste if any shall be disposed through Authorized vendor as per E-waste (Management & Transboundary)/ Movement) Rules, 2016.	Generated E-waste is stored in designated place and handed over to authorized vendor.
l	This environmental clearance is issued subject to obtaining NOC from the Forestry & Wildlife angle including clearance from the Standing Committee of the National Board for wildlife, if applicable. The grant of environmental clearance does not necessarily imply that Forestry & Wildlife clearance has been granted to the project, which has to be dealt separately by the competent authorities in accordance with law.	Noted.
m	The height, construction gross built up area of proposed construction is 64,348.38 Sq.mts shall be in accordance with the existing FSI/FAR norms of the local body and planning authorities and it should ensure the same along with survey number before approving layout plan and before according commencement certificate to proposed work, Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.	The construction activity commenced strictly in accordance with the approved site plan by following local by-law.
n	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Temporary toilets were arranged, and necessary sanitary and hygiene measures were ensured in the project site during construction phase.
5	**Further, the PP is required to comply with the following "General Conditions" during construction phase**	
a	'Consent to Establish' shall be obtained from the Goa State Pollution Control Board (GSPCB) under Air Act and Water Act, as applicable and a	Noted, the prior clearance from the Goa State Pollution Control Board has been obtained under Air Act and

	copy shall be submitted to the Authority within 30 days of starting construction work at site.	Water Act during construction phase.
b	Permission to draw groundwater, as applicable, shall be obtained from the Groundwater Cell of the Water Resources Department (WRD) government of Goa.	Not Applicable, since the source of water is from PWD during operation phase.
c	Project proponent shall not make any change in the Surface Layout Plan/ Civil Plan submitted to the Authority without its prior permission. In case of any change(s) in the scope of the project and/or otherwise, the project proponent need to inform this Authority.	The construction activity commences strictly in accordance with the approved site plan by following by-law. If any change(s) in the scope of the project, we will obtain a fresh approval from the Authority.
d	Project proponent shall make suitable provisions for sewage/ wastewater disposal and storm water release independently.	Many measures are taken and further proposals are in pipeline for effective control and use of storm water. Surface runoff is used to recharge ground water table by connecting external drain. Domestic sewage is being treated in STP.
e	The diesel generator sets (D.G, set) to be used during construction / after commissioning should be low-sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards as laid down by the Goa State Pollution Control Board (GSPCB).	The DG sets are used for back-up power are low sulphur Diesel type.
f	The installation of the Sewage Treatment Plant (STP) if any should be certified by the GSPCB and a report in this regard should be submitted to the Authority before the STP is commissioned.	Project is under operation phase and conditions are compiled and submitted.
g	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, creche and first aid room etc.	There are no in-house labourers in the site and all labourers are taken from locally and they work during day shift and return home after work. Medical health care center with first aid room facilities is provided within the site premises during construction phase.
h	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile	All the required facility have been provided to the construction workers at the site during construction phase.

	toilets. The safe disposal of waste water and solid waste generated during the construction phase should be ensured.	
i	The solid waste generated should be properly segregated. Dry /inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	Dry waste generated from the project site is collected and kept separately and disposed of to authorized recyclers.
j	Disposal of muck during construction phase should 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 site with the approval of competent authority.	The construction debris is laid along the proposed interconnected roads as base layers. This could marginally save on the construction of roads and solve the problem of the disposable of construction debris. Unusable cement bags is collected manually and returned to vendor.
k	Arrangements shall he made that waste water and storm water do not get mixed.	Many measures are taken for effective control and use of storm water. Surface runoff is used to recharge ground water table by connecting external drain.
l	All the topsoil excavated during construction activities should be stored if or use in horticulture/landscape development within the project site.	During construction phase the construction activities involve excavation and land filling which adversely affects the soil erosion. To avoid this, top layer of soil was stored and covered with tarpaulin and same was reutilized for landscape development within the project site.
m	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	The natural sloping pattern of the project site is unaltered.
n	Green-belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the State Forest / Agriculture Department.	The project planning includes extensive plantations of native or adapted trees and plants. The overall proposed 580 no's of tree varieties as green belt.
o	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Soil and ground water have not been disturbed.
p	Construction spoils, including bituminous material and other hazardous materials must not	Construction spoils such as brickbats, waste mortar, broken pieces tiles etc

	be allowed to contaminate water courses and the dump sites for such materials must be secured so that they should not leach into ground water.	used for low laying areas in the land thus care is taken to see that rainwater does not get contaminated before getting in-filtered to the ground water.
q	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary authorization of the GSPCB	Hazardous waste generated during construction and operation phase is Waste oil generated from DG set is stored separately and is disposed off to GSPCB authorized vendors.
r	The diesel requires for operating DG sets shall be stored in underground tanks and if required, Clearance from concerned authority shall be taken.	Noted and followed.
s	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 standard and should be operated during non-peak hrs.	Vehicles hired for bringing construction material to the site were in good condition. All construction materials brought to the site only during daytime.
t	Ambient noise levels should conform to residential standards both during day and night, Incremental pollution load on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level construction phase, so as to conform to the stipulated standard by CPCB/ GSPCB.	Ambient noise level is monitored, and adequate measures are being taken to reduce air and noise pollution as per CPCB norms on noise limits. Ambient noise level monitored and conformed to the prescribed standards and monitoring reports enclosed as **Annexure-1.**
u	The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquakes, adequacy of firefighting equipments etc. as per National Building Code (NBC) including measures from lighting.	As per National Building Code (NBC) approval is obtained for structural safety of the building from competent authorities.
v	Storm water controlled and its re-use as per Central Ground Water Board (CGWB) and Bureau of Indian Standards (BIS) for various applications.	Surface runoff is used to recharge ground water table by connecting external drain.
w	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Factory-made premixed concrete for all mass made concreting work. As a standard practice, in all premixed concrete suitable admixtures are used to minimize

		the quantity of water during construction phase.
x	The groundwater level and its quality should be monitored regularly in consultation with ground water authority of the Water Resources Department (WRD), Government of Goa.	Noted.
y	The installation of the sewage treatment plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the GSPCB before the project is commissioned for operation. Treated effluent released from STP shall be recycled / refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharged in the sewer line. Treatment of 100% grey water through the centralized treatment should be done. Necessary measures should be adopted to mitigate the odour problem from STP.	Sewage treatment plant of 175 KLD has been installed and it is in operation. For the expansion project, STP of capacity 105 KLD is installed and treated to GSPCB urban use standards. Complete wastewater is taken to STP and treated water is used for non-portable purposes. Grey water treatment is carried out in decentralized treatment method.
z	Use of glass may be reduced upto 40% to reduce electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	The percentage use of glass is lesser than 40%. The percentage use of glass is decided appropriately for different cases. In areas proposed to be used for air condition, the glass usage is minimized to a great extent. In other areas as for corridors the glass usage is optimized so as to minimize the usage of electricity. Most of the window glasses are provided sun control films to minimize the entry of heat into the building.
aa	Roof should meet prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material.	Noted and has been followed during construction.
bb	Energy conservation measures like installation of LEDs' for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use of CFLs / TFLs, if any, should be properly collected and disposed off / sent for recycling as per the prevailing guidelines / rules of the regulatory authority to	Noted and complied. Separate bins are provided for disposal of bulbs and same will be handed over to authorized vendors.

	avoid mercury contamination.	
cc	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase 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 combine capacity of all proposed DG sets.	Low sulphur diesel type DG sets is used as source of power back up during operation phase. Waste oil generated from DG set is being stored separately and is disposed of to GSPCB authorized vendors.
dd	Noise should 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.	Noise level is being monitored regularly at project site both at during day and nighttime and does not exceed the prescribed standards. Acoustic enclosures are provided to DG sets. Overall noise levels in and around the project area are kept well with standards by providing all noise control measures.
ee	Traffic congestions near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public place should be utilized.	Traffic movement is being taken care at the project site during the operation phase by providing bell gated at main entrances and security person has been engaged to regulate the traffic movement from the project site. Parking is provided at basement during operation phase and there is no utilization of public space for parking.
ff	Opaque wall should meet prescriptive requirement as per energy conservation board which is proposed to mandatory for all air conditioned spaces while it is aspiration for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	Noted and followed.
gg	The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Noted and followed.
hh	Regular supervision of the above and other measures for monitoring should be in placed all through the construction phase, so as to avoid disturbance to the surroundings.	Noted and followed during construction phase.
ii	Under the provisions of Environment Protection Act 1986, legal action shall be initiated against	Project proponent has been obtained Environmental clearance before the

	the PP if it was found that construction of the project has been started without obtaining EC.	commencement of construction of the project.
jj	Six monthly compliance reports should be submitted to the MOEF with copy to the Goa-SEIAA and GSPCB.	Half yearly compliance report along with monitoring reports is being submitted regularly to MOEF&CC and GSPCB.
6.	**Further, the Authority decided to direct the PP to comply with the following "General Conditions" doing post-construction phase:**	
a	PP shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. The PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging into sewer line. No physical occupation of allotment will be given unless all above said environmental infra structure is installed and made functional including water requirement prior certification from appropriate authority shall be obtained.	Occupancy certificate is obtained from concerned authority by installing STP, OWC, DG set as power back-up, development of green belt and obtained NOC from PWD for supply of water.
b	Wet garbage should be treated by organic waste convertor and treated waste (manure) should be utilize in the existing premises for gardening. And no wet garbage will be disposed outside the premises. Local authority should ensure compliance to this.	Generated organic waste is collected and kept separately, which is composted in organic waste converter within the facility. It is used as manure for gardening. Inorganic garbage is handed over to the authorized waste recyclers for further processing.
c	A complete set of all the documents submitted to Goa-SEIAA should be forwarded local authority, GSPCB and Planning authority.	Noted and complied.
d	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the Goa-SEIAA.	If any change(s) in the scope of the project, fresh approval from Goa SEIAA will be obtained.
e	Separate funds shall be allocated for implementation of environmental protection measures /EMP along with item wise breaks-up. The funds earmarked for the environment protection measures shall not be diverted for other purposes	Noted and will be complied. M/s. Mathias Constructions Pvt. Ltd. adheres to the condition and will not divert the environmental management fund for any other purpose.
f	A copy of the environmental clearance letter shall be sent by PP to the concerned Village Panchayat and planning authority as applicable, from which suggestions /representation, if any, were received while processing the proposal.	Noted and complied.

	The EC letter shall also be put on the company's website by PP within one week time period from date of issue of environmental clearance.	
g	The PP shall upload the status of the compliance of the stipulated EC conditions, including results of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF & CC, the respective Zonal office, CPCB and the GSPCB. The pollutant levels in respect of SPM, RSPM, SO2 and NO (ambient levels as well as D. G. static emissions) shall be monitored.	Regularly compliance status reports are submitted to GSPCB and half yearly compliance reports are being submitted to regional office of the MoEF&CC along with monitoring reports and its annexures.
h	The environmental statement for each financial year ending 31st March in Form V is to be submitted to the GSPCB as prescribed under the Environment (Protection) Rules 1986 (as amended) and subsequently shall also be put on the company's website along with the status of the compliance of the EC conditions and shall also be sent to the respective Regional Office of the MoEF & CC.	Noted.
i	Consent to Operate shall be obtained from GSPCB before operation, failing which the Environmental Clearance herein shall be deemed to be withdrawn.	Since the project is under operation phase and obtained Consent for operation from GSPCB and the renewal application has been submitted and is under process.
j	Sewage Treatment Plant (STP) shall be installed at site. The STP should be certified by an independent expert and adequacy report in this regard should be submitted to GSPCB before the project is commissioned for operation. Necessary measures should be made to mitigate the odour problem from STP.	Sewage treatment plant of 175 KLD has been installed and it is in operation. Treated sewage water quality will be submitted to GSPCB. For the expansion project, STP of capacity 105 KLD installed and treated to GSPCB urban use standards.
k	The solid waste (dry as well as wet garbage) generated should be properly collected and segregated. Organic Waste Converter shall be installed by RWA for the treatment of biodegradable (wet) garbage generated within the housing complex. Non-Biodegradable waste should be outsourced properly after recovery of recyclable material. Adequate measures should be taken to prevent odour problem.	Generated organic waste is collected and kept separately, which is composted in organic waste converter within the facility. It is used as manure for gardening. Inorganic garbage is handed over to the authorized waste recyclers for further processing.

l	Utilization of Diesel power generating sets is subject to power failure condition only. The DG sets proposed as a source of power back up during operation phase should be of enclosed type, low sulphur diesel run and conform to rules made under the Environment (Protection) Act, 1986. The DG sets should be subjected to periodic noise and stack monitoring in consultation with GSPCB. Waste/used diesel should be stored and managed as per the Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016 as amended	Low sulphur diesel type DG sets are used as source of power back up during operation phase and the stack emission report is attached as **Annexure-1.** Waste oil generated from DG set is stored separately and is disposed of to GSPCB authorized vendors as per the Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016.
m	Noise should be controlled to ensure that it does not exceed the prescribed standards both during day & night time.	Noise level is being monitored regularly at project site both during day and night time and it is not exceed the prescribed standards. Acoustic enclosures are provided to DG sets. Overall noise levels in and around the plant area is kept well with standards by providing all noise control measures.
n	The ground water drawl from existing/proposed bore wells if any should be done only with the prior permission of Ground Water Board. The ground water level and its quality should also be monitored regularly both during construction and operation phase in consultation with Ground Water Board.	Ground water is not used both during construction and operational phase. Since water is obtained from PWD water supply and the copy of the same is attached as **Annexure-1.**
o	Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Traffic movement is taken care at the project site during the operation phase by providing bell gated at main entrances and security person has been engaged to regulate the traffic movement from the project site. Parking is provided at basement during operation phase and there is no utilization of public space.
p	Energy Conservation measures such as solar lighting for common area, solar water heating system, CFLs/TFLs for lighting of areas, LED lights for signage, solar inverters on the etc should be adopted.	Solar power panels are installed in the terrace area to generate power and same is being used within the project to reduce power demand on the grid

q	Used CFLs/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.	Used CFLs/TFLs/LED will be properly collected and disposed off for recycling as per the normal guidelines/ rules of the regulatory authority to avoid mercury contamination.
r	A Report on energy conservation measures conforming to energy conservation norms finalized by Bureau of energy Efficiency should be prepared incorporating details about building materials and technology, R & U factors etc and submit to the State Expert Appraisal Committee and a copy to GSPCB in three months time.	Project is under operation phase and the condition is complied.
7	Further this EC is issued without prejudice to the action initiated in the Environment (Protection) Act or any court case pending in the court of law. As such, it does not mean that the PP has not violated any environmental laws in the past and whatever decision under the said Act by the Hon'ble Court will be binding on the PP. Hence, this environmental clearance does not give immunity to the PP in the case complaint is filed against, if any, or action initiated under the said Act.	Noted.
8	In case of submission of false document and non-compliance to any of the stipulated conditions, this Authority will revoke or suspend the EC without any intimation and initiate appropriate legal action under the Environment (Protection) Act, 1986 (as amended till date).	Noted.
9	E-waste generated in the complex should be managed as per CPCB guidelines on E-waste management.	Generated E-waste within the campus is stored in designated place and handed over to authorized vendor.
10	The Goa-SE1AA reserves their right to add any stringent condition or to revoke the environmental clearance, if conditions stipulated above are not implemented to the satisfaction of the Authority or for that matter, for any other administrative reasons.	Noted.
11.	**In addition, the following conditions shall be specifically complied with:**	
1	Project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the	Complied.

	Konkani or Marathi language within seven days of receipt of this communication, informing that the proposed project has been accorded prior Environmental Clearance (1C) and the copies of the clearance: left: will be available on the PP website.	
2	Validity of the Environmental Clearance (EC) accorded shall be for a period of 07 (seven) years from the date of its issue.	Noted.
3	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Noted.
4	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority	If any change(s) in the scope of the project, a fresh approval will be obtained from the State Environment Impact Assessment Authority.
5	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Noted and will be followed.
6	Any appeal against this prior environmental clearance shall lie with the National Green Tribunal (NGT), if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010 (Central Act 19 of 2010).	Noted.

ANNEXURE - 1

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Recognized by MOEF & CC , ISO 9001:2015 , ISO14001:2015 ,
ISO 45001:2018 & GLP Certified Laboratory

NO.23, JDN Layout,10th Cross , Raghavendra Industrial Area ,Thigalarapalya Main Road,
Peenya 2nd Stage , Bengaluru - 560058, Karnataka, India.

Mob : 9538888098 , 9538888097, E - mail:info@slnlabs.com , Web : www.slnlabs.com

TEST REPORT

Report No : SLNTL24001100624A	**Report Date** : 29/11/2024
Issued To: M/s. Mathias Construction Pvt. Ltd. "MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa	**Customer Reference** : Verbal **Date of Receipt** : 26/11/2024 **Date of test start** : 26/11/2024 **Date of Completion Of test** : 29/11/2024
Sample Particular	Ambient Air Quality Monitoring
Sampling Location	Centre of the Site
Date of Sampling	25/11/2024

Results:

Sl. No.	Parameters	Units	Results	NAAQM Standard	Test Method
01	Particulate Matter (PM_{10})	$\mu g/m^3$	69.0	100 Max	IS 5182 (Part 23) :1985
02	Particulate Matter($PM_{2.5}$)	$\mu g/m^3$	30.0	60 Max	CPCB Manual : 2012
03	Sulphur Dioxide (SO_2)	$\mu g/m^3$	14.0	80 Max	IS 5182 (Part 2) :2001
04	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	25.0	80 Max	IS 5182 (Part 6) :2006

Report Status: The above tested parameters are within the NAAQM Standards.

**********End of the Report**********

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4. Sampling not done by us, unless specified.

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TEST REPORT

Report No : SLNTL24001100624B	**Report Date** : 29/11/2024
Issued To: M/s. Mathias Construction Pvt. Ltd. "MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa	**Customer Reference** : Verbal **Date of Receipt** : 26/11/2024
Sample Particular	Noise Level Monitoring
Date of Sampling	25/11/2024

Test Method: IS 9989: 1981

Sl. No	Sample Location	Results dB(A)		
		L min	L max	L_{EQ}
01	East Side Boundary Area	43.9	64.1	54.0
02	West Side Boundary Area	46.2	63.7	54.9
03	North Side Boundary Area	44.7	63.5	54.1
04	South Side Boundary Area	43.3	65.9	54.6

Note: Noise level stipulated by KSPCB
Residential area is 55 dB (A) (During day time) and 45 dB (A) (During Night Time),
Commercial area 65 dB (A) (During day time), and 55 dB (A) (During Night Time),
Industrial area 75 dB (A) (During day time), and 70 dB (A) (During Night Time),

**********End of the Report**********

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TEST REPORT

Report No : SLNTL24001100624C	**Report Date** : 29/11/2024
Issued To: M/s. Mathias Construction Pvt. Ltd. "MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa	**Customer Reference** : Verbal **Date of Receipt** : 25/11/2024 **Date of test start** : 25/11/2024 **Date of Completion Of test** : 29/11/2024 **Sample Particulars :** PWD Water

Parameters	Results	Maximum Acceptable Limits (in mg/L) (As per IS 10500:2012)	Maximum Permissible Limits (in mg/L) (As per IS 10500:2012)	Test Method
Colour, Hazen Units	<5	5	15	IS:3025/Part-4
Odour	Agreeable	Agreeable	Agreeable	IS:3025/Part-5
Taste	Agreeable	Agreeable	Agreeable	IS:3025/Part-8
pH Value	7.64	6.5 – 8.5	No Relaxation	IS:3025/Part-11
Turbidity, NTU	<1	1	5	IS:3025/Part-10
Total Dissolved Solids, mg/L	970.0	500	2000	IS:3025/Part-16
Electrical Conductivity, µs/cm	1521.0	-----	-----	IS:3025/Part-14
Chloride as Cl, mg/L	244.0	250	1000	IS:3025/Part-32
Total Hardness as $CaCO_3$, mg/L	450.0	200	600	IS:3025/Part-21
Calcium as Ca, mg/L	108.0	75	200	IS:3025/Part-40
Magnesium as Mg, mg/L	43.7	30	100	APHA
Sulphate as SO_4, mg/L	51.9	200	400	IS:3025/Part-24
Fluoride as F, mg/L	0.7	1.0	1.5	IS:3025/Part-60
Chromium as Cr^{6+}, mg/L	<0.01	0.05	No Relaxation	IS:3025/Part-52
Residual Free Chlorine, mg/L	<0.1	0.2	1	IS:3025/Part-26
Total Alkalinity as $CaCO_3$, mg/L	402.0	200	600	IS:3025/Part-23
Nitrate as NO_3, mg/L	8.3	45	No Relaxation	IS:3025/Part-34
Copper as Cu, mg/L	<0.01	0.05	1.5	APHA
Iron as Fe, mg/L	<0.1	0.3	No Relaxation	APHA
Manganese as Mn, mg/L	<0.1	0.1	0.3	APHA
Phenolic Compounds, mg/L	Not Detected	0.001	0.002	APHA
Mercury as Hg, mg/L	Not Detected	0.001	No Relaxation	APHA

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TEST REPORT

Report No : SLNTL24001100624C	**Report Date** : 29/11/2024
Issued To: M/s. Mathias Construction Pvt. Ltd. "MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa	**Customer Reference** : Verbal **Date of Receipt** : 25/11/2024 **Date of test start** : 25/11/2024 **Date of Completion Of test** : 29/11/2024 **Sample Particulars :** PWD Water

Parameters	Results	Maximum Acceptable Limits (in mg/L)	Maximum Permissible Limits (in mg/L)	Test Method
		(As per IS 10500:2012)		
Cadmium as Cd, mg/L	Not Detected	0.03	No Relaxation	APHA
Selenium as Se, mg/L	Not Detected	0.01	No Relaxation	APHA
Arsenic as As, mg/L	Not Detected	0.02	No Relaxation	APHA
Cyanide as CN, mg/L	Not Detected	0.05	No Relaxation	APHA
Lead as Pb, mg/L	Not Detected	0.01	No Relaxation	APHA
Zinc as Zn, mg/L	<0.5	5	15	APHA
Anionic Detergent as MBAS, mg/L	<0.1	0.2	1.0	APHA
Aluminium as Al, mg/L	<0.01	0.03	0.2	APHA
Boron as B, mg/L	<0.1	0.5	1	APHA
Total Coliform, MPN/100ml	Not Detected	Not Detectable		IS 1622 - 1981
E. Coli, MPN/100ml	Not Detected	Not Detectable		IS 1622 - 1981

Remarks: The given water sample conforms to IS 10500: 2012 specification for above tests.

******End of the Report******

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TEST REPORT

Report No : SLNTL24001100624D	**Report Date** : 29/11/2024
Issued To: M/s. Mathias Construction Pvt. Ltd. "MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa	**Customer Reference** : Verbal **Date of Receipt** : 25/11/2024 **Date of test start** : 25/11/2024 **Date of Completion Of test** : 29/11/2024 **Sample Particulars :** Soil Sample

Sl. No	Parameters	Results	Test Method
01	Coarse Sand, %	17.0	Department of Agriculture & Cooperation Ministry of Agriculture Government of India
02	Fine Sand, %	24.0	
03	Silt, %	29.0	
04	Clay, %	30.0	
05	pH (1 : 2.5)	7.23	
06	Electrical Conductivity (1 : 2.5), µs/cm	454.0	
07	Organic Carbon, %	0.51	
08	Nitrogen as N, mg/kg	323.0	
09	Phosphorous as P, mg/kg	64.0	
10	Potassium as K, mg/kg	211.0	
11	Chloride as Cl, mg/kg	152.0	
12	Moisture, %	7.3	
13	Magnesium as Mg, mg/kg	64.0	
14	Colour	Reddish	Visual Method
15	Iron as Fe, mg/kg	72.0	USEPA 3050B: 1996
16	Copper as Cu, mg/kg	9.3	
17	Mercury as Hg, mg/kg	<0.01	
18	Cadmium as Cd, mg/kg	<0.01	
19	Selenium as Se, mg/kg	<0.01	
20	Arsenic as As, mg/kg	<0.01	
21	Lead as Pb, mg/kg	<0.01	
22	Zinc as Zn, mg/kg	7.5	
23	Manganese as Mn, mg/kg	8.3	
24	Cyanide as CN, mg/kg	Absent	USEPA 9016: 2010

******End of the Report******

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ANALYSIS REPORT OF STACK EMISSION

Name of the Company	M/s. Mathias Construction Pvt. Ltd.
Address	"MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa
Name of the Location	320 KVA DG Set - 1
Sample Collected by	Lab Representative
Date of Collection	25/11/2024
Date of Analysis	26/11/2024
Report Number	SLNTL24001100624E
Report Date	29/11/2024
Page Number	1 of 1

General Details:

Stack Diameter	0.10 mts
Stack Temperature	144 ^{0}C
Ambient Temperature	31 ^{0}C
Stack Velocity	10.3 mts/sec
Discharge Rate	291.0 Nm^3/Hr

Results:

Sl. No.	Parameters	Units	Results	Standard	Test Method
01	Particulate Matter (PM)	mg/Nm^3	46.0	Not Specified	IS 11255 (Part 1) :1985
02	Sulphur Dioxide (SO_2)	mg/Nm^3	20.0	Not Specified	IS 11255 (Part 2) :1985
03	Oxides of Nitrogen (NOx)	mg/Nm^3	32.0	Not Specified	IS 11255 (Part 7) :20050

**********End of the Report**********

SLN TESTING LABORATORY PRIVATE LIMITED

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NO.23, JDN Layout,10th Cross , Raghavendra Industrial Area ,Thigalarapalya Main Road,
Peenya 2nd Stage , Bengaluru - 560058, Karnataka, India.

Mob : 9538888098 , 9538888097, E - mail:info@slnlabs.com , Web : www.slnlabs.com

ANALYSIS REPORT OF STACK EMISSION

Name of the Company	M/s. Mathias Construction Pvt. Ltd.
Address	"MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa
Name of the Location	320 KVA DG Set - 2
Sample Collected by	Lab Representative
Date of Collection	25/11/2024
Date of Analysis	26/11/2024
Report Number	SLNTL24001100624F
Report Date	29/11/2024
Page Number	1 of 1

General Details:

Stack Diameter	0.10 mts
Stack Temperature	171 ^{0}C
Ambient Temperature	32 ^{0}C
Stack Velocity	11.9 mts/sec
Discharge Rate	336.2 $Nm^{3/}Hr$

Results:

Sl. No.	Parameters	Units	Results	Standard	Test Method
01	Particulate Matter (PM)	mg/Nm^3	50.0	Not Specified	IS 11255 (Part 1) :1985
02	Sulphur Dioxide (SO_2)	mg/Nm^3	27.0	Not Specified	IS 11255 (Part 2) :1985
03	Oxides of Nitrogen (NOx)	mg/Nm^3	39.0	Not Specified	IS 11255 (Part 7) :20050

**********End of the Report**********

SLN TESTING LABORATORY PRIVATE LIMITED

Authorised Signatory

Note : 1. The results listed pertain only to the tested samples and applicable parameters.
2. Samples will be destroyed after 15 days from the date of issue of test certificates unless & otherwise specified and all perishable samples will be destroyed immediately after tests conducted.
3. This report is not be reproduced either wholly or in part and can not be used an evidence in the count of law and should not be used in any advertising media without prior written permission.
4. Sampling not done by us, unless specified.

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ANALYSIS REPORT OF STACK EMISSION

Name of the Company	M/s. Mathias Construction Pvt. Ltd.
Address	"MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa
Name of the Location	150 KVA DG Set - 1
Sample Collected by	Lab Representative
Date of Collection	25/11/2024
Date of Analysis	26/11/2024
Report Number	SLNTL24001100624G
Report Date	29/11/2024
Page Number	1 of 1

General Details:

Stack Diameter	0.10 mts
Stack Temperature	120 ^{0}C
Ambient Temperature	30 ^{0}C
Stack Velocity	9.3 mts/sec
Discharge Rate	262.8 $Nm^{3/}Hr$

Results:

Sl. No.	Parameters	Units	Results	Standard	Test Method
01	Particulate Matter (PM)	mg/Nm^3	39.0	Not Specified	IS 11255 (Part 1) :1985
02	Sulphur Dioxide (SO_2)	mg/Nm^3	18.0	Not Specified	IS 11255 (Part 2) :1985
03	Oxides of Nitrogen (NOx)	mg/Nm^3	25.0	Not Specified	IS 11255 (Part 7) :20050

**********End of the Report**********

SLN TESTING LABORATORY PRIVATE LIMITED

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ANALYSIS REPORT OF STACK EMISSION

Name of the Company	M/s. Mathias Construction Pvt. Ltd.
Address	"MATHIAS OCEAN PARK" Modification for development of Residential Apartment & Commercial Shops. 249/1-A, Taleigao Plateau, Dona-Paula, Tiswadi Goa
Name of the Location	150 KVA DG Set - 2
Sample Collected by	Lab Representative
Date of Collection	25/11/2024
Date of Analysis	26/11/2024
Report Number	SLNTL24001100624H
Report Date	29/11/2024
Page Number	1 of 1

General Details:

Stack Diameter	0.10 mts
Stack Temperature	120 ^{0}C
Ambient Temperature	30 ^{0}C
Stack Velocity	9.3 mts/sec
Discharge Rate	262.8 Nm^3/Hr

Results:

Sl. No.	Parameters	Units	Results	Standard	Test Method
01	Particulate Matter (PM)	mg/Nm^3	34.0	Not Specified	IS 11255 (Part 1) :1985
02	Sulphur Dioxide (SO_2)	mg/Nm^3	12.0	Not Specified	IS 11255 (Part 2) :1985
03	Oxides of Nitrogen (NOx)	mg/Nm^3	20.0	Not Specified	IS 11255 (Part 7) :20050

**********End of the Report**********

Authorised Signatory

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