



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
क्षेत्रीय कार्यालय
REGIONAL OFFICE
Ground Floor, East Wing, New Secretariat Building
Civil Lines, Nagpur - 440001
E-mail: apccfcentral-ngp-mef@gov.in



F. No. EC-1833/RON/2023-NGP 12092

Dated: 23.08.2023

To

M/s. Provenance Land Pvt. Ltd
1/136, Dr E. Moses Road, Worli,
Mumbai, Maharashtra-400018.


Subject: Proposed Four Seasons Residential tower, Commercial tower and Existing Hotel at C.S No: 1/136, 1H/136, 1I/136 Dr. E Moses Road, Worli, Mumbai 400018 by M/s. Provenance Land Pvt. Ltd.-Issue of Certified Compliance Report- Reg.

Sir,

This has reference to your request for the issue of CCR for the above project. In this regard, the above said project was inspected by this office. After the site visit and review of additional documents submitted, the implementation of environmental safeguards status in the project is prepared. Copy of the Inspection report is enclosed. **PP should ensure the compliance on the observations made in the report.**

This issues with the approval of Competent Authority.

Yours faithfully


(Surender Gugloth)
Scientist-E

Encl: as above

Copy to:

1. Member Secretary- SEIAA Environment & Climate Change Department, Room No. 217, 2nd floor Mantralaya, Mumbai-400032

Government of India
Ministry of Environment, Forest and Climate Change
Regional Office, Nagpur
Site Inspection Report

F. No. EC-1833/RON/2022-NGP

1. Name of the project and location Proposed Four Seasons Residential tower, Commercial tower and Existing Hotel at C.S No: 1/136, 1H/136, 1I/136 Dr. E Moses Road, Worli, Mumbai 400018 by M/s. Provenance Land Pvt. Ltd.
2. Address for Correspondence M/s. Provenance Land Pvt. Ltd.
1/136, Dr E. Moses Road, Worli, Mumbai, Maharashtra-400018.
3. Clearance letter No.& Date 1st EC No. SEAC-2010/CR.562/TC.2 dated 20.11.2011
2nd EC no. SEAC-2010/CR.562/TC.2 dated 26.06.2013
3rd EC vide letter no. SEIAA-EC-0000002361 dated 19.08.2021.
4. Date of site visit The project was inspected on 08.07.2023. During the visit Shri Jayendra (Project manager) was present.
5. Date of previous visit(s) & observation if any Nil
6. One-page brief summary of the project - along with project details, date of commencement of construction activities, present status etc,

The proposed project was granted total 3 nos. of EC 1st EC was granted for total BUA of 80155 sqm on net plot area of 16381.25 sqm dated 20.11.2011 and amendment in EC was granted for same BUA on same plot dated 26.06.2012.

After that PP obtained 3rd EC for amendment in EC and Expansion for total BUA of 132686.66 sqm. on net plot of 16381.25 sqm dated 19.08.2021 Now PP is applied for expansion for proposed project.

The proposed project consists Residential tower, commercial tower and existing Hotel construction activity commenced in August 2013. The project is under construction phase and about 21% completed. PP informed that there was no work carried out at site for the period of 2018 to 2022. PP has submitted undertaking Certificate for the same is placed as **Annexure. I**



7. Consent from MPCB

PP has obtained 1st Consent to Establish vide letter no. Format1.0/BO/ROHQ/EIC-MU4651-13/CE/CAC-6401 dated 31.07.2013.

2nd Consent to Establish vide letter no. Format1.0/CAC-CELL/UAN No. 0000121895/CE/2209001744 dated 28.09.2021.

PP obtained Consent to Operate vide letter no. Format1.0/CAC/UAN No. 0000041579/CR-2011000782 dated 12.11.2020.

After that PP also obtained Renewal of Consent to operate vide letter no. Format1.0/CAC/UAN No. MPCB CONSENT-0000121216/CR-2202000143 dated 02.02.2022. Copy of CTE/CTO placed as **Annexure. II**

8. Details on sanitation facilities provided at labour camp, if provided within the site, -

1. Sewage treatment and disposal,

Adequate numbers of toilets for labours, provision of potable water etc. to maintain sanitary and hygienic measures are taken. Adequate drinking water facility is provided for the workers at the site during construction phase. The waste generated from the labour is treated through Septic tank/ soak pit, collected and handed over to MCGM for further treatment.

2. Solid waste collection and disposal

Solid waste generated is properly collected, segregated and handed over to local agency.

9. Water usage, source and quantity

The water requirement for the construction activity is under 348.0 KLD and it is met through tanker water Supply.

PP has obtained NOC from MCGM for water supply for the operation phase. Copy of the permission is submitted.

10. Permission to draw ground water if any shall be obtained from the competent Authority prior to construction /operation of the project.

PP informed that there is no bore well on site and PP is meeting the water for construction through water tankers.

11. Water conservations measures-

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

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

Dual plumbing line for separation of gray and black water, Low flow Fixtures for showers, toilet flushing

PP informed that Low Flow Devices (LFD) as plumbing fixtures will be provided in operation phase.

and drinking.

- Recycling of treated sewage
- PP proposed 1 no. STP having 190 KLD capacity for commercial tower and 1 no. STP having 60 KLD capacity for residential tower with MBBR Technology during operational phase.
12. Energy conservation as per Energy Conservation Building Code
- PP informed that the project is designed as per ECBC norms and energy conservation measures such as solar lighting, use of LED, BEE 5 star rated pumps, and solar lighting will be provided.
13. Usage of Fly ash in the construction
- PP informed that fly ash is used in RMC
14. Topsoil management.
- Reported that excavated soil is used for backfilling and leveling of the plot and remaining shall be used within site for landscaping.
15. Details of DG set [numbers and Capacity]
- DG set 200 kVA is installed at site for construction phase. The height of the DG set is installed as per the Central Pollution Control Board (CPCB)
16. Pollution abatement measures:
- Vehicular pollution
- PP informed that Pollution generated from the vehicular movement will be checked by maintenance & regular checkup of vehicle and implementation of traffic management plan. Along with that local native plants will be planted all around the project site and road side to reduce the impact of pollution
- Dust control
- PP informed that water sprinkling is being carried out for suppression of dust.
- Noise Control
- PP informed that construction activity is restricted to day time only, tall barricades have been provided on all sides.
17. Latest Monitoring reports on Ambient air, Soil, Ground water, Noise, DG set etc.,
- The environmental monitoring is regularly carried out for various parameters by approved MoEF & CC lab and copy of the latest monitoring report is enclosed as **Annexure-III**
18. Construction Spoils, muck, including bituminous material and other hazardous materials management
- All construction waste gets collected and segregated properly. Most of that is reused for the construction activity.
19. Amount earmarked for Environmental Management
- Construction Phase: 18 Lakhs/ Year
Operation Phase: i) Capital Cost: 1360.5 Lakhs
ii) O & M Cost: 5.5 Lakhs/ Year
20. Green Belt
- PP has submitted green belt development plan. According to plan, proposed to carry out plantation

in an area of 3989.08 sqm, total 60 nos. of trees & 537 nos. of Miyawaki are present at site & total no of tree to be planted is 43 nos. **PP should ensure plantation as per the green belt development plan submitted.**

21. CER/EMP

PP informed that according to the OM dated 25.02.2021 of the Ministry, the building projects to carry out all activities proposed under EMP as well any additional activities that may either be committed by them or prescribed by SEAC. EMP activities as STP, OWC, and Rain water harvesting, plantation etc. **PP should ensure implementation of EMP activities with 30% funds to be earmarked for water conservation works and planning / distribution of Seedlings.**

22. Details of Environment Management Cell

PP reported that a separate Environment Management Cell has been set up to look after environmental management.

23. Submission of six-monthly reports on the status of compliance

PP has submitted six-monthly report.

24. Submission of the environmental statement

PP has submitted the copy of the Environment Statement.

25. Uploading of the EC, compliance report, Environmental statement on the Company Website

Not Complied

PP has not uploaded EC, compliance report, Environmental statement on their Company Website.

26. Advertisement about the grant of EC

Partly Complied

Advertisement was made by PP; however, the clause of seven days was not followed.

27. Details of areas like Forest, Eco-Sensitive Zone, wildlife sanctuary etc. and the distance from the project

NIL

28. Details of Show Cause Notice/ direction issued, if any by the State PCB and details of remedial action taken/proposed.

NIL

29. Details of pending Court Cases (If any)

NIL

30. Proposal

Reported that due to new UDPCR rules, PP

proposed to modify the plan and applied for EC.
Hence requested for CCR.

Conclusion: After the site visit and review of additional documents submitted, the implementation of environmental safeguards status in the project is prepared. The following Non Compliance /Partially Compliance was observed.

1. PP has not upload EC, compliance report, Environmental statement on their Company Website.
2. Advertisement was made by PP; however, the clause of seven days was not followed.

PP should ensure the implementation of Green belt development plan and CSR/CER/EMP activities 30% funds should be earmarked for Water conservation and Seedling plantation/distribution related works.



Fig: Google Imagery

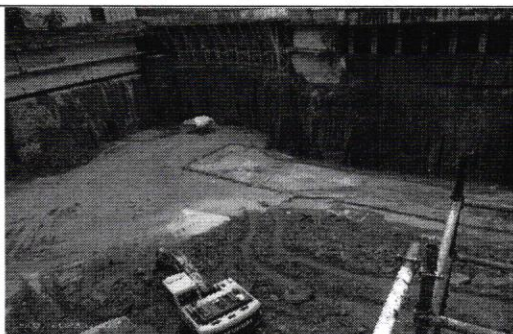


Fig: Construction Phase



(Surender Gugloth)

Scientist-E

(सुरेंद्रर गुगलोथ)

(SURENDER GUGLOTH)

वैज्ञानिक 'ई' / Scientist 'E'

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

Min. of Environment, Forest and Climate Change

ए.के.का., नागपुर / I.R.O., Nagpur

9. 8. 1971, मंगलूर, 1 म. 10, Nodur
 Min. of Education, India and Marine Garde
 प्राणोद, 48 नं. प्रमोद पर्यटन मार्ग
 दार्जिलिंग 71, 71, 71, 71
 (SUNDER GUOLTH)
 (सुन्दर गुलथ)

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

Infrastructure/RED/L.S.I

No:- Format1.0/CAC-CELL/UAN No.0000121895/CE/2209001744

Date: 28/09/2022

To,
Provenance Land Pvt Ltd., C.S No. 1/136,
1H/136, 1I/136, Dr. E Moses Road, Worli,
Mumbai- 400 018.



Your Service is Our Duty

Sub: Consent to Establish for proposed Four Seasons Residential Tower, Commercial Tower and Existing Hotel project under Red/LSI category.

- Ref:**
1. Environmental Clearance for proposed "Four Seasons Hotel - Phase II" Construction project accorded vide letter SEAC-2010/CR.562/TC.2 dtd. 20/10/2011.
 2. Amendment in EC for proposed amendment with two split towers i.e., Hotel Tower & Residential Tower to the project accorded vide letter SEAC-2010/CR.562/TC-2 dtd. 26/06/2013.
 3. Environment Clearance for proposed Four Seasons Residential Tower, Commercial Tower and Existing Hotel project accorded vide letter SEIAA-EC-0000002361 dtd. 19/08/2021.
 4. Minutes of Consent Appraisal Committee meeting held on 25/02/2022.

Your application NO. MPCB-CONSENT-0000121895

For: Grant of Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I,II,III & IV annexed to this order:

1. **The Consent to Establish is granted for a period upto commissioning of project or up to 5 year whichever is earlier.**
2. **The capital investment of the project is Rs.757 Cr. (As per undertaking submitted by pp).**
3. **The Consent to Establish is valid for proposed Four Seasons Residential Tower, Commercial Tower and Existing Hotel project named as Provenance Land Pvt Ltd., C.S No. 1/136, 1H/136, 1I/136, Dr. E Moses Road, Worli, Mumbai- 400 018 on Total Plot Area of 17,243.43 SqMtrs for Construction BUA of 1,32,268.66 SqMtrs as per EC granted dated 19/08/2021 including utilities and services**

Sr.No	Permission Obtained	Plot Area (SqMtr)	BUA (SqMtr)
1	EC- dtd. 20/10/2011	17243.43	80155.00
2	Amended EC - dtd. 26/06/2013	17243.43	80150.00
3	EC- dtd. 19/08/2021	17243.43	132268.66

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal
1.	Trade effluent	Nil	Nil	Nil
2.	Domestic effluent	244	As per Schedule - I	The treated sewage shall be 60% recycled for secondary purposes and remaining shall be utilized on land for gardening and/ or connected to local body sewer line with water metering system.

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
S-1 to S-4	DG Sets of 1500 kVA x 4	04	As per Schedule -II

6. **Conditions under Solid Waste Rules, 2016:**

Sr No	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Bio-degradable Waste	448 Kg/Day	OWC followed by composting facility.	Used as Manure.
2	Non-biodegradable Waste	672 Kg/Day	Segregation	Handed over to Auth. Vendor.
3	STP Sludge	24 Kg/Day	Drying	Used as Manure.

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No.	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	410	Ltr/A	Recycle	By Sale to Auth. reprocessor

8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
10. PP shall provide STP of adequate capacity to achieve the treated domestic effluent standard for the parameter BOD-10 mg/lit including disinfection facility.
11. The treated sewage shall be 60% recycled for secondary purposes such as toilet flushing, air-conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and/ or connected to local body sewer line with water metering system.
12. PP shall provide organic waste digester along with composting facility/bio-digester (biogas) for the treatment of wet garbage.
13. PP shall make provision of charging ports for electric vehicles at least 30% of total available parking slots.
14. PP shall submit BG of Rs. 25 Lakh towards compliance of EC and Consent conditions.

15. This consent is issued without prejudice to the order passed or may be passed by the Hon'ble Supreme Court of India in special leave petition (Civil No. D23708/2017) (if construction in Mumbai region-)



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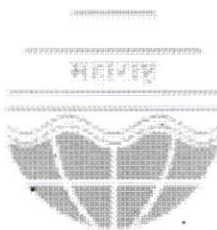
Signed by: Ashok Shingare
Member Secretary
For and on behalf of
Maharashtra Pollution Control Board
ms@mpcb.gov.in
2022-09-28 15:09:06 IST

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1514000.00	TXN2109001719	23/09/2021	Online Payment

Copy to:

1. Regional Officer, MPCB, Mumbai and Sub-Regional Officer, MPCB, Mumbai I
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided 2 Nos of Sewage Treatment Plant of designed capacity 250 CMD with MBBR technology for the treatment of 244 CMD of sewage.
- B] The Applicant shall operate the sewage treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
1	pH	5.5-9.0
2	BOD	10
3	COD	50
4	TSS	20
5	NH4 N	5
6	N-total	10
7	Fecal Coliform	less than 100

- C] The treated sewage shall be 60% recycled for secondary purposes such as toilet flushing, air-conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and/ or connected to local body sewer line with water metering system.
- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) **The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, and other provisions as contained in the said act.**

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	315.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00

- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

- 1) As per your application, you have proposed to provide the Air pollution control (APC) system and also proposed to erect following stack (s) and to observe the following fuel pattern-

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM
S-1 to S-4	DG Sets of 1500 kVA x 4	Acoustic enclosure	14	HSD	120 Ltr/Hr

- 2) The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards.

Total Particular matter	Not to exceed	150 mg/Nm3
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- 3) The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
- 4) The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
- 5) **Conditions for utilities like Kitchen, Eating Places, Canteens:-**
- a) The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
- b) The toilet shall be provided with exhaust system connected to chimney through ducting.
- c) The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).
- d) The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such a way that no nuisance is caused to neighbors.

SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent(C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Consent to Establish	25 Lakh	15 days	Towards Compliance of EC & C to E conditions.	Commissioning of the project or 5 years whichever is earlier.	Commissioning of the project or 5 years whichever is earlier.

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.

Existing BG obtained for above purpose if any may be extended for period of validity as above.

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed Purpose of BG	Amount of BG Returned
		NA	

SCHEDULE-IV

Conditions during construction phase

A	During construction phase, applicant shall provide temporary sewage and MSW treatment and disposal facility for the staff and worker quarters.
B	During construction phase, the ambient air and noise quality shall be maintained and should be closely monitored through MoEF approved laboratory.
C	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.

General Conditions:

- 1 The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2 The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act 1986 and Solid Waste Management Rule 2016, Noise (Pollution and Control) Rules, 2000 and E-Waste (Management & Handling Rule 2011.
- 3 Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
- 4 Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 5 Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.

- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 6 Solid Waste - The applicant shall provide onsite municipal solid waste processing system & shall comply with Solid Waste Management Rule 2016 & E-Waste (M & H) Rule 2011.
- 7 Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
- 8 Applicant shall submit official e-mail address and any change will be duly informed to the MPCB.
- 9 The treated sewage shall be disinfected using suitable disinfection method.
- 10 The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.
- 11 The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.

This certificate is digitally & electronically signed.



MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I (R31)

No:- Format1.0/CAC/UAN No.0000041579/CR - 2011000782

Date: 12/11/2020

To,
M/s Four Season Hotel,
C.S. No. 1/136, Near Jijamata Nagar,
Dr. E. Moses Road, Worli, Mumbai - 400 018.

Sub: Grant of renewal of Consent to Operate .

Ref: 1. Previous Consent to Operate accorded vide No. BO/CAC-Cell/CR/
CAC-1706000714 dtd. 16/06/2017.
2. Minutes of Consent Appraisal Committee meeting held on 23/09/2019.

Your application No.MPCB-CONSENT-0000041579 Dated 31.01.2018

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent to renewal is granted for a period up to 30/09/2021
2. The capital investment of the project is Rs.599.1882 Crs. (As per C.A Certificate submitted by industry Existing CI is-Rs. 585.28 Crs + Increase in C.I. - Rs. 13.9082 Crs)
3. Consent is valid for the manufacture of:

Sr No	Product	Maximum Quantity	UOM
Products			
1	Hotel (Phase-I) with Restaurant, Lodging, Boarding, Swimming Pool & Laundry activities on total plot area 10,945 sq. mtrs. for construction BUA 17,587.85 sq. mtrs.	202	Rooms
2	Ballroom on total plot area 10,945 sq. mtrs. for construction BUA 3,400 sq. mtrs. out of total construction BUA 80,150 sq. mtrs. (Phase-II)	1	--NA--

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	25	As per Schedule-I	Sent to STP

[Signature]

Sr No	Description	Permitted	Standards to	Disposal
2.	Domestic effluent	257	As per Schedule-I	Recycle for Secondary purposes and discharge excess into MCGM Sewer

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1 & S-2	DG Sets (2x1425 KVA)	1	As per Schedule -II
2	S-3	Boiler I	1	As per Schedule -II
3	S-4	Kitchen Exhaust	1	As per Schedule -II

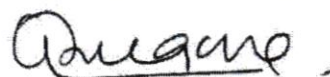
6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Wet Garbage	1088	Kg/Day	Composting	Used as Manure
2	Dry Garbage	1350	Kg/Day	Segregation	Local Body/ Vendor
3	STP Sludge	30	Kg/Day	Dewatering	Used as Manure

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

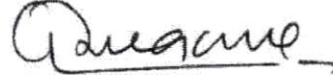
Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	210	Ltr/A	Recycle	Sale to Auth. Party/ Reprocessor / Recycler
2	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	10	Nos./Y	Recycle	Sale to Auth. Party/ Recycler

- 8 The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
- 9 This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
- 10 PP shall operate ETP/ STP so as to achieve standards for parameter BOD-10 mg/l at the outlet of STP.
- 11 PP shall recycle treated effluent for toilet flushing, air-conditioning, fire-fighting, Boiler & gardening purposes to the maximum extent and discharge excess into MCGM Sewer line.
- 12 PP shall install online monitoring system at the outlet of STP for the parameters pH, BOD, TSS & flow with the connectivity to MPCB Server.
- 13 PP shall operate OWC followed by composting facility and utilize compost obtained as a manure for gardening.
- 14 PP shall pay Environment Compensation on demand as decided by the Board's Committee for Environment Compensation.



- 15 PP shall top-up/ submit BG to total Rs. 25 Lakh towards O&M of pollution control systems and towards compliance of the Consent conditions.

For and on behalf of the
Maharashtra Pollution Control Board.


(Ashok Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	4640525.00	5450716	29/05/2019	NEFT

Copy to:

1. Regional Officer, MPCB, Mumbai and Sub-Regional Officer, MPCB, Mumbai I
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC-CAC Desk- for record & website updating purpose



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

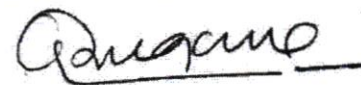
1. A] As per your application, you have provided Sewage Treatment Plant of designed capacity 400 CMD with conventional technology for the treatment of 257 CMD of sewage and 25 CMD primarily treated Laundry effluent.
B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards	
1	pH	Not to exceed	Between 5.5 - 9.0
2	BOD	Not to exceed	10 mg/l
3	COD	Not to exceed	50 mg/l
4	Suspended S ^o lids	Not to exceed	20 mg/l
5	Oil & Grease	Not to exceed	5 mg/l
6	Detergent	Not to exceed	2 mg/l

- C] The treated effluent shall be recycled for toilet flushing, air-conditioning, fire-fighting, boiler feed & gardening purposes to the maximum extent and discharge excess into MCGM Sewer line after confirming above standards.
2. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
 3. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
 4. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	170.00
2.	Domestic purpose	287.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	60.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

5. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.



SCHEDULE-II**Terms & conditions for compliance of Air Pollution Control:**

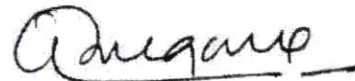
1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO ₂ (kg/day)
S-1 & S-2	DG Sets (2 x 1425 KVA)	Acoustic Enclosure/ Stack	7.6	HSD	960 Lit/Day	1.00	9.00
S-2	Boiler I	Stack	30	PNG	800m3/hr	0.00	0.00
S-3	Kitchen Exhaust	Stack-	3 mtrs. above roof				

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Parameters	Standards	
Total Particulate Matter	Not to exceed	150 mg/ Nm3

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with, necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



SCHEDULE-III
Details of Bank Guarantees:

Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2R	2500000	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	30.11.2021	31.03.2022

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

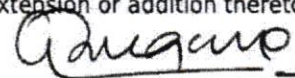
BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

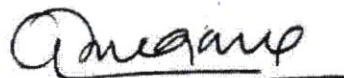
Amegane

SCHEDULE-IV
General Conditions:

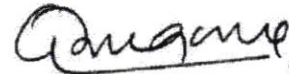
1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.



12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.



26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.





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Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.

"Shree", K 3/4, S. No. 16, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/01861A-1
Environment Clearance for Amendment in EC and expansion for Proposed Four Seasons Residential tower, Commercial tower and Existing Hotel.	DATED	23/05/2022
	LAB REFERENCE NO	HS/LAB/WA/0183A
	DATE OF SAMPLING	18/05/2022
	DATE OF ANALYSIS	19/05/2022

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Ground Water Sample	The Client	---	Project Site 18°59'44.84"N 72°49'14.04"E

RESULT OF ANALYSIS

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS AS PER IS10500:2018
01	pH @ 25 °C	---	7.52	6.5 – 8.5
02	Temperature	°C	27.00	Not Specified
03	Turbidity	NTU	0.70	< 1.00
04	Electrical Conductivity @ 25 °C	mS/cm	0.670	Not Specified
05	Total Dissolved Solids	mg/lit	436.00	< 500.00
06	Total Suspended Solids	mg/lit	32.00	Not Specified
07	Dissolved Oxygen	mg/lit	3.50	Not Specified
08	Salinity	ppt	1.30	Not Specified
09	Chemical Oxygen Demand	mg/lit	7.20	Not Specified
10	Biochemical Oxygen Demand @ 27°C for 3 days	mg/lit	2.05	Not Specified
11	Chlorides as Cl ⁻	mg/lit	68.70	< 250.00
12	Sulphates as SO ₄ ⁻⁻	mg/lit	44.00	< 200.00
13	Fluoride as F ⁻	mg/lit	NIL	< 1.00
14	Total Alkalinity as CaCO ₃	mg/lit	63.00	< 200.00
15	Nitrate as NO ₃ ⁻	mg/lit	1.25	< 45.00
16	Nitrite as NO ₂ ⁻	mg/lit	0.14	Not Specified
17	Ammonia as NH ₃	mg/lit	0.08	< 0.50
18	Total Phosphate as PO ₄	mg/lit	0.35	Not Specified
19	Magnesium as Mg ⁺⁺	mg/lit	36.00	< 30.00
20	Total Hardness as CaCO ₃	mg/lit	166.00	< 200.00
21	Sodium as Na ⁺⁺	mg/lit	17.00	Not Specified



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22	Total Iron as Fe	mg/lit	0.16	Not Specified
23	Copper as Cu	mg/lit	BDL < 0.01	< 0.05
24	Total Chromium as Cr	mg/lit	BDL < 0.01	< 0.05
25	Chromium as Cr ⁺⁶	mg/lit	BDL < 0.01	< 0.10
26	Nickel as Ni	mg/lit	BDL < 0.01	< 0.02
27	Cadmium as Cd	mg/lit	BDL < 0.01	< 0.003
28	Mercury as Hg	mg/lit	BDL < 0.01	< 0.001
29	Arsenic as As (Inorganic)	mg/lit	BDL < 0.01	< 0.01
30	Cyanide as Cn	mg/lit	BDL < 0.01	< 0.05
31	Lead as Pb	mg/lit	BDL < 0.01	< 0.01
32	Zinc as Zn	mg/lit	BDL < 0.01	< 5.00
33	Total Coliform	MPN/100ml	40.00	ABSENT
34	Fecal Coliform	Org/100ml	PRESENT	ABSENT

REMARK: As per IS:10500:2018; above water sample is chemically potable & bacteriologically unpotable for drinking purpose, for the parameters tested.

For HORIZON SERVICES

M. Mangalakar

(LAB INCHARGE)



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ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/01861A-2
Environment Clearance for Amendment in EC and expansion for Proposed Four Seasons Residential tower, Commercial tower and Existing Hotel.	DATED	23/05/2022
	LAB REFERENCE NO	HS/LAB/WA/0183A
	DATE OF SAMPLING	18/05/2022
	DATE OF ANALYSIS	19/05/2022

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Surface Water Sample	The Client	---	Project Site 18°59'44.84"N 72°49'14.04"E

RESULT OF ANALYSIS

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS IS: 2296 (1992) for Surface Water Quality (Class E)
01	pH @ 25 °C	---	7.12	6.0-8.5
02	Colour	PtCo	0.45	Not Specified
03	Odour	---	Agreeable	Not Specified
04	Taste	---	Agreeable	Not Specified
05	Total Dissolved Solids	mg/lit	380.00	2100.00
06	Electrical Conductivity @ 25 °C	µS/cm	584.00	2250.00
07	Phenolic Compounds as C ₆ H ₅ OH	mg/lit	NIL	Not Specified
08	Dissolved Oxygen	mg/lit	4.60	Not Specified
09	Biochemical Oxygen Demand @ 27°C for 3 days	mg/lit	3.00	Not Specified
10	Chlorides as Cl-	mg/lit	58.70	600.00
11	Sulphates as SO ₄ --	mg/lit	65.00	1000.00
12	Fluoride as F ⁻	mg/lit	NIL	Not Specified
13	Nitrate as NO ₃	mg/lit	0.58	Not Specified
14	Ammonia as N	mg/lit	0.12	Not Specified
15	Total Hardness as CaCO ₃	mg/lit	148.00	Not Specified
16	Iron as Fe	mg/lit	BDL < 0.01	Not Specified
17	Copper as Cu	mg/lit	BDL < 0.01	Not Specified
18	Manganese as Mn	mg/lit	BDL < 0.01	Not Specified
19	Boron as B	mg/lit	BDL < 0.01	2.00
20	Sodium Absorption Ratio	---	11.00	26.00



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21	Barium as Ba	mg/lit	BDL < 0.01	Not Specified
22	Anionic detergents (as MBAS)	mg/lit	NIL	Not Specified
23	Selenium as Se	mg/lit	BDL < 0.01	Not Specified
24	Chromium as Cr+6	mg/lit	BDL < 0.01	Not Specified
25	Cadmium as Cd	mg/lit	BDL < 0.01	Not Specified
26	Mercury as Hg	mg/lit	BDL < 0.01	Not Specified
27	Arsenic as Ar	mg/lit	BDL < 0.01	Not Specified
28	Cyanide as CN	mg/lit	BDL < 0.01	Not Specified
29	Lead as Pb	mg/lit	BDL < 0.01	Not Specified
30	Zinc as Zn	mg/lit	BDL < 0.01	Not Specified
31	Total Coliform	Org/100ml	30.00	Not Specified

REMARK: As per IS:2296; above water sample is useful for irrigation, industrial cooling and controlled waste disposal purpose.

For **HORIZON SERVICES**

M. Nagaraj

(LAB INCHARGE)



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ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/01861A-3
Environment Clearance for Amendment in EC and expansion for Proposed Four Seasons Residential tower, Commercial tower and Existing Hotel.	DATED	23/05/2022
	LAB REFERENCE NO	HS/LAB/WA/0183A
	DATE OF SAMPLING	18/05/2022
	DATE OF ANALYSIS	19/05/2022

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Soil Sample	The Client	----	Project Site 18°59'44.84"N 72°49'14.04"E

RESULT OF ANALYSIS

SR. NO	DESCRIPTION	UNIT	RESULT	Standard as per Ministry of Agriculture 2011	TEST METHOD REFERENCE
01	pH @ 25 °C	---	8.40	< 8.5	IS 2720 (Part 26) 1987
02	Colour	---	Light Black	Not Specified	Ministry of Agriculture 2011
03	Texture	---	Sandy loam	Not Specified	Ministry of Agriculture 2011
03a	Sand	%	58.00	Not Specified	Ministry of Agriculture 2011
03b	Slit	%	32.00	Not Specified	Ministry of Agriculture 2011
03c	Clay	%	10.00	Not Specified	Ministry of Agriculture 2011
04	Electric Conductance @ 25 °C	mS/cm	0.580	0.15 – 0.65	IS 14767:2000
05	Total Organic Matter	%	0.62	0.5 – 0.75	IS 2720 (Part XXII) 1972
06	Bulk Density	g/cm ³	1.45	Not Specified	Ministry of Agriculture 2011
07	Porosity	%	42.00	Not Specified	Ministry of Agriculture 2011
08	Sodium Adsorption Ratio (SAR)	---	3.33	10-18	Ministry of Agriculture 2011
09	Available Nitrogen as N	kg/ha	58.00	280 - 560	SOP NO: HS/ NABL/ SOIL/3A
10	Available Potassium as K ⁺⁺	%	124.42	Not Specified	Ministry of Agriculture 2011
11	Available Sodium as Na ⁺⁺	%	0.0419	Not Specified	Ministry of Agriculture 2011
12	Exchangeable Calcium as Ca ⁺⁺	mg/kg	680.00	< 400.00	SOP NO: HS/ NABL/ SOIL/4



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13	Exchangeable Magnesium as Mg ⁺⁺	mg/kg	315.00	< 240.00	SOP NO: HS/ NABL/ SOIL/5
14	Available Phosphorus as P	kg/ha	2.75	10- 24.60	SOP NO: HS/ NABL/ SOIL/8
15	Cation Exchange Capacity	meq/ 100gm	705.00	Not Specified	Soil Manual – Ministry of Agriculture 2011 Method No. 4.6.3.3 PP-74

REMARK: Avai. Phosphorous, Avai. Nitrogen & SAR are below while Calcium & Magnesium are exceeding the limit as per specified by Ministry of Agriculture 2011.

For **HORIZON SERVICES**

M. N. Agarwal

(LAB INCHARGE)