

## **Consent**

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**From:** Consent  
**Sent:** Monday, December 26, 2022 7:17 PM  
**To:** 'srokalyan2@mpcb.gov.in'  
**Subject:** Submission of Post Monitoring Report for the period of April, 2022 – September, 2022 for proposed Residential Cum Commercial project 'Sai World Legend' on Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 & 1626A, Ulhasnagar -1.  
**Attachments:** PMR\_Sai World Legend\_APR,22 - SEPT, 22.pdf

To,  
The Member Secretary,  
M.P.C.Board,  
Kalapataru point, Sion (East),  
Mumbai – 400 022.  
Maharashtra.

Subject: Submission of Post Monitoring Report for the period of April, 2022 – September, 2022 for proposed Residential Cum Commercial project 'Sai World Legend' on Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 & 1626A, Ulhasnagar -1. by M/s. Chariot Properties LLP now transferred to M/s. Paradise Lifestyles Pvt Ltd.

Reference: Transfer of Environment Clearance letter No. SIA/MH/MIS/284473 dated 27.08.2022.  
Clearance letter No. SEIAA-EC-0000002273 dated 24.06.2020.

Dear Sir,

This is with reference to the above subject. We are submitting the half yearly, post monitoring report. We are submitting relevant documents needed as follows:

1. Data Sheet.
2. EC compliance Report.
3. Post Environment Monitoring Report.
4. EC letter.
5. Copy of consent to Establish.
6. Copy of Newspaper Advertisement (English & Marathi).

Hope the above are in line with your requirement and kindly acknowledge the receipt.

Thanking you,

Yours faithfully,

**M/s. Paradise Lifespaces Pvt. Ltd. (previously known as M/S. Chariot Properties LLP.)**

C.C. to: 1. The Director, MoEF&CC, Nagpur.  
2. The Secretary, Environment Department, Mantralaya, Mumbai



**Thanks & Regards**  
**Chandni Rupani**  
**M/s. Enviro Analysts and Engineers Private Limited.**  
**B-1003, Enviro House, 10th floor.**  
**Western Edge-II, W.E Highway.**  
**Borivali(E), Mumbai-400066**  
**Tel No: 91-22 2854 1647/48/49/67/68**

Email: [c.rupani@eaep.com](mailto:c.rupani@eaep.com)

Contact No.: +91 9022334577

“File this email in an email folder and save a tree.”

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**Sent:** Monday, December 26, 2022 7:17 PM  
**To:** ecompliance; apccfcentral-ngp-mef@gov.in  
**Cc:** Thirunavukkarasu  
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**Attachments:** PMR\_Sai World Legend\_APR,22 - SEPT, 22.pdf

To,  
**The Director**  
**Ministry of Environment, Forests & Climate Change,**  
Regional Office, West Central Zone,  
New Secretarial Building, East wing, Civil Lane,  
Near Old VCA stadium,  
**Nagpur - 440001.**  
**Maharashtra.**

**Subject: Submission of Post Monitoring Report for the period of April, 2022 – September, 2022 for proposed Residential Cum Commercial project 'Sai World Legend' on Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 & 1626A, Ulhasnagar -1. by M/s. Chariot Properties LLP now transferred to M/s. Paradise Lifestyles Pvt Ltd.**

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                  -      The M.S., MPCB, Sion, Mumbai.



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**Tel No:91-22 2854 1647/48/49/67/68**

**Email: [c.rupani@eaapl.com](mailto:c.rupani@eaapl.com)**

**Contact No.: +91 9022334577**

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Date: 24-12-2022

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Yours faithfully,

M/s. Paradise Lifestyles Pvt. Ltd. (previously known as M/S. Chariot Properties LLP.)



Authorized Signatory

C.C. to : -      The Secretary, Environmental Department, Mantralaya, Mumbai.  
-      The M.S., MPCB, Sion, Mumbai.

Date: 24-12-2022

To,  
The Director  
Ministry of Environment, Forests & Climate Change,  
Regional Office, West Central Zone,  
New Secretarial Building, East wing, Civil Lane,  
Near Old VCA stadium,  
Nagpur - 440001.  
Maharashtra.

Subject: Present status of Project work for period April, 2022– September, 2022.

Reference:

Transfer of Environment Clearance letter No. SIA/MH/MIS/284473 dated 27.08.2022.  
Clearance letter No. SEIAA-EC-0000002273 dated 24.06.2020.

Dear Sir,  
This is with reference to the above subject, our proposed Residential Cum Commercial project 'Sai World Legend' on Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 & 1626A, Ulhasnagar -1.

The present project status at site is as follows:

Wings	Floors	Status
Commercial Building	Ground + 2 Floors	Occupation Certificate Received
Building No 1- Arista	Ground + 2 Podium + 27 Habitable Floors	Ground + 2 Podium + 24 Habitable Floors
Building No 2- Belista	Ground + 2 Podium + 27 Habitable Floors	Ground + 2 Podium + 24 Habitable Floors

Thanking you,

Yours truly,

M/s. Paradise Lifestyles Pvt. Ltd. (previously known as M/S. Chariot Properties I.I.P.)



Authorized Signatory

**Paradise Lifestyles Private Limited**

Corp. Off: 1701, Satra Plaza, Plot No. 19 & 20, Sector-19D, Vashi, Navi Mumbai.  
Tel.: 022 2783 9000 / 2784 9000 | Email: admin@paradisegroup.co.in  
Website: www.paradisegroup.co.in

# **DATA SHEET**

**M/s. Chariot Properties LLP,**

Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 &  
1626A, Ulhasnagar -1, Thane.

**MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS**

Ministry of Environmental and Forests  
Regional Office, West Central Zone, Nagpur.

**Monitoring Report****PART - I****DATA SHEET**

1.	Project type: river - valley/ mining/ Industry / thermal / nuclear/ Other (specify)	Residential cum Commercial Project.
2.	Name of the project	Sai World Legend
3.	Clearance letter (s) / OM/ no and date:	Transfer of EC File No. SIA/MH/MIS/284473/2022 dated 27.08.2022.  Clearance File. No. SEIAA-EC-0000002273 dated 24.06.2020.
4.	Location	Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 & 1626A, Ulhasnagar -1.
a.	District (s)	Thane
b.	State (s)	Maharashtra
5.	Address for correspondence	
a.	Address of concerned project Chief Engineer (with pin code & telephone / telex / fax numbers)	Mr. Patankar Flat No 302, Bldg M-9, Valley Shilp, Sec 36, Kharghar Navi Mumbai Contact – 9833344821
b.	Address of Executive Project Engineer /Manager (with pin code / fax number)	
6.	Salient features	

a.	of the project	<ul style="list-style-type: none"> <li>Total Plot Area: 31535.65 Sq.m.</li> <li>FSI Area: 63997.87 Sq.m.</li> <li>Non FSI: 46350.15 Sq.m.</li> <li>Total Construction Area: 110348.02 Sq.m.</li> </ul> <p><b>Building Configuration:</b></p> <table border="1"> <thead> <tr> <th>Building Name &amp; number</th><th>Number of floors</th></tr> </thead> <tbody> <tr> <td>Building No. 1, 2, 3 &amp; 4</td><td>Gr + 1st Parking + 2nd Podium + 3rd to 27th floor</td></tr> <tr> <td>Commercial</td><td>G + 2 floors</td></tr> <tr> <td>Club house</td><td>G + 2 floors</td></tr> </tbody> </table>	Building Name & number	Number of floors	Building No. 1, 2, 3 & 4	Gr + 1st Parking + 2nd Podium + 3rd to 27th floor	Commercial	G + 2 floors	Club house	G + 2 floors
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Building No. 1, 2, 3 & 4	Gr + 1st Parking + 2nd Podium + 3rd to 27th floor									
Commercial	G + 2 floors									
Club house	G + 2 floors									
b.	of the environmental management plans	<p>1. <u><i>Sewage Treatment Plant:</i></u> Sewage Treatment Plant with capacity of 450 KLD will be provided for treating the wastewater with MBBR Technology.</p> <p>2. <u><i>Water Management:</i></u> Rain Water Harvesting shall be provided to recharge the ground water table.</p> <p>3. <u><i>Solid Waste Management:</i></u></p> <ul style="list-style-type: none"> <li>Dry waste: Will be hand over to Local Recyclers for recycling.</li> <li>Wet waste: Will be processed in the OWC. Manure obtained shall be used for landscaping.</li> <li>STP Sludge (Dry sludge): To be used as a manure.</li> </ul>								
7.	Break Up Of the project Area									
a.	Submerge area: forest & non-forest	Non-Forest								
b.	Others	<ul style="list-style-type: none"> <li>Total Plot Area: 31535.65 Sq.m.</li> <li>FSI Area: 63997.87 Sq.m.</li> <li>Non FSI: 46350.15 Sq.m.</li> <li>Total Construction Area: 110348.02 Sq.m.</li> </ul>								
8.	Breakup of the project affected:  population with enumeration of those losing houses / dwelling units, only agriculture land only, both dwelling units and agriculture land and landless labourers / artisan	Not Applicable.								
a.	SC, ST / Adivasis	---								

b.	Others	---																														
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)																															
9.	Financial details																															
a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs. 230 Crores.																														
b.	Allocation made for environmental management plans with item wise and year wise break-up	<p>EMP Cost:</p> <p><u>Construction phase-</u></p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Total Cost per annum (Rs. In Lacs)</th> </tr> </thead> <tbody> <tr> <td>Water Sprinkling, Green Belt Development, Covered storage area</td> <td>2.00</td> </tr> <tr> <td>Noise Barricades and Green Belt Developments</td> <td>2.00</td> </tr> <tr> <td>Modular STP, Drainage with Sedimentation tanks</td> <td>1.5</td> </tr> <tr> <td>Site Sanitation &amp; Health Care</td> <td>1.5</td> </tr> <tr> <td>Air, Water, Noise, Soil monitoring during construction phase</td> <td>3</td> </tr> </tbody> </table> <p><u>Operation Phase-</u></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Capital cost Rs. In Lacs</th> <th>O &amp; M cost (Rs. in Lacs/yr)</th> </tr> </thead> <tbody> <tr> <td>RWH</td> <td>12</td> <td>1</td> </tr> <tr> <td>OWC</td> <td>40</td> <td>6</td> </tr> <tr> <td>STP</td> <td>15</td> <td>3</td> </tr> <tr> <td>Solar</td> <td>60</td> <td>6</td> </tr> <tr> <td>Landscaping</td> <td>78.10</td> <td>15.63</td> </tr> </tbody> </table>	Parameter	Total Cost per annum (Rs. In Lacs)	Water Sprinkling, Green Belt Development, Covered storage area	2.00	Noise Barricades and Green Belt Developments	2.00	Modular STP, Drainage with Sedimentation tanks	1.5	Site Sanitation & Health Care	1.5	Air, Water, Noise, Soil monitoring during construction phase	3	Description	Capital cost Rs. In Lacs	O & M cost (Rs. in Lacs/yr)	RWH	12	1	OWC	40	6	STP	15	3	Solar	60	6	Landscaping	78.10	15.63
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c.	Benefit cost ratio/ Internal rate of return and the year of assessment	---																														
d.	Whether (c) includes the cost of environmental management as shown in the above	---																														

e.	Actual expenditure incurred on the project so far	Rs. 146,05,33,670/-
f.	Actual expenditure incurred on the environmental management plans so far	Nil
10.	Forest land required	
a.	The status of approval for diversion of forest land for non-forestry use	The land is of non-forest type hence not applicable.
b.	The status of clearing and felling	R.G. Area Provided: 6,905 Sq. m. (on ground: 2700 Sq. m. + on podium: 4205.00 Sq. m.) A combination of native evergreen trees and ornamental flowering trees, shrubs and palms are planned in the complex. There will be tree plantation of about 337 Nos while 4 nos. of trees will be cut. Different species will be selected as per CPCB green belt guidelines and common species available in the proposed area.
c.	The status of compensatory afforestation, if any	---
d.	Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	N.A.
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information	N.A.
12.	Status of construction (Actual and/or planned)	
a.	Date of commencement	18.03.2020
b.	Date of completion	01.05.2026
13.	Reasons for the delay if the project is yet to start	---
14.	Dates of site visits	
a.	The date on which the project was monitored by the regional office on previous occasions, if any	Not yet monitored.

b.	Date of site visit for this monitoring report	03.05.2022; 15.09.2022
15.	Details of correspondence with project authorities for obtaining action plans/information on status on compliance to safeguards other than the routine letters for logistic support for site visits	<p>Transfer of EC File No. SIA/MH/MIS/284473/2022 dated 27.08.2022.</p> <p>Clearance File. No. SEIAA-EC-0000002273 dated 24.06.2020.</p> <p>M/s. Chariot Properties LLP, Add.: Corp. Off: 1701, Satra Plaza, Plot No. 19 &amp; 20, Sector-19D, Vashi, Navi Mumbai. Email: <a href="mailto:admin@paradisegroup.co.in">admin@paradisegroup.co.in</a> Website: <a href="http://www.paradisegroup.co.in">www.paradisegroup.co.in</a> Tel.: 022 2783 9000 / 2784 9000 Fax: 022 2783 6800</p>

# **COMPLIANCE**

# **REPORT**

**M/s. Chariot Properties LLP,**

Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 &  
1626A, Ulhasnagar -1, Thane.

# COMPLIANCE REPORT

## TERMS & CONDITIONS

### Specific Conditions:

1.	PP to abide the suggestions listed in the hydrology study report. PP to incorporate the same in designing & construction.	The detailed hydrological studies are done for the project area and surroundings. Copy attached as Annexure I.
2.	PP to submit the tree NoC.	PP reported that Tree NOC is received on date 01/06/2019 and uploaded the same. Copy attached as Annexure II.
3.	PP to submit the CFO NoC.	PP received CFO NOC for Bldg No.1, 2, 3 & 4 for the height of 123.30 m. Copy attached as Annexure III.
4.	The planning authority to ensure that no occupation certificate is given to the Project till surplus discharge from STP of the Project is connected to duly developed and commissioned sewage disposal system of local planning authority.	Condition is noted by PP.
5.	The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.	The PP reported that project is 19 km away from said Thane creek flamingo sanctuary boundary. Google image is attached as Annexure IV.
6.	PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.	CER shall be implemented as part of EMP as prescribed by SEAC as mentioned in OM F.No.22-65/2017-IA.III dated September 30,2020.
7.	PP to ensure that CER plan gets approved from Municipal Commissioner	CER shall be implemented as part of EMP as prescribed by SEAC as mentioned in OM F.No.22-65/2017-IA.III dated September 30,2020.

8.	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA.III dt.04.01.2019.	Yes, we noted the condition & agreeable to the same.
9.	SEIAA decided to grant EC for – FSI: 29949.20 m <sup>2</sup> , Non-FSI:46305.15 m <sup>2</sup> and Total BUA:76254 m <sup>2</sup> (Plan Approval no- dated JK/UMP/NRV/BP/4016/234, 17.12.2019)	Yes, we have received the EC for FSI area: 29949.20 m <sup>2</sup> , Non-FSI:46305.15 m <sup>2</sup> and Total BUA:76254 m <sup>2</sup> .

**General Conditions:**

1.	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.	E-waste generated will be managed as per E-Waste Management Rules, 2016. It will be handed over to authorized vendor.
2.	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.	Noted by PP.
3.	This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.	The said condition is not applicable to the project.
4.	PP has to abide by the conditions stipulated by SEAC & SEIAA.	Condition is noted by PP.
5.	The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & 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 height, construction built up area of project is accordance with the approved plan and as per DCR. The development is being carried out as per local planning authority.

6.	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	Consent to Establish from MPCB is in process. Application no. UAN No. MPCB-CONSENT-0000150438 dated 12/10/2022
7.	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Adequate numbers of toilets for Labour, provision of potable water etc. to maintain sanitary and hygienic measures are taken.
8.	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 wastewater and solid wastes generated during the construction phase should be ensured.	PP reported that adequate drinking water facility is provided for the workers at the site during construction phase.  Toilets are provided for construction workers.  Bins have been provided to dispose the municipal solid waste generated from labour camps.
9.	The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	The PP reported that solid waste generated shall be properly collected and segregated and also being stored separately in two bin system.  Biodegradable Waste of operation phase shall be processed in OWC and manure so obtained will be used for landscaping.  Non-biodegradable Waste shall be managed through recyclers.
10.	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 sites with the approval of competent authority.	All construction waste gets collected and segregated properly. Most of that is reused for the construction activity. Muck will be dried before its final disposal.
11.	Arrangement shall be made that waste water and storm water do not get mixed.	Separate confined sewage system has been proposed which will be connected to STP for the treatment and reuse of the treated water. Excess treated water shall be disposed off into the sewer drain. Strom water drain shall be in covered drain system and will be connected to municipal drain.
12.	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Excavated Top soil will be used for landscaping from time to time.

13.	Additional soil for leveling 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 cut & fill will be minimum to the extent possible. The cut & fill is accordance with the natural contour and it will be maintained in such a way that the natural drainage will not disturb.
14.	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Deptt.	<ul style="list-style-type: none"> <li>• The green area proposed is 6,905 m<sup>2</sup>. Accordingly, same will be provided as per approved plan.</li> <li>• A combination of native evergreen trees and ornamental flowering trees, shrubs and palms are planned in the complex.</li> <li>• There will be tree plantation of about 337 Nos while 4 nos. of trees will be cut.</li> <li>• Plantation Details: Species will be selected as per CPCB greenbelt guidelines and common species available in the proposed area.</li> </ul>
15.	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 testing was done and according to the reports all the parameters are within the prescribed norms.
16.	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.	<p>There will be no generation of hazardous waste at site. Proper care would be taken following the norms to handle and use the bituminous and other hazardous material at site.</p> <p>Also silt traps and other measures such as additional on-site will be constructed to control surface Run-off.</p>
17.	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	Used oil would be generated from the site, will be disposed through Authorized vendor of MPCB.
18.	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	DG set installation will be as per specifications & meeting CPCB norms.
19.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	The diesel required for the operation phase will be stored as per the provision of petroleum act.

20.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	The PUC checked/authorized vehicles are allowed on the site for transfer of material.
21.	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.	<p>Following care are taken regarding noise levels with conformation to the residential area.</p> <ol style="list-style-type: none"> <li>1. Earth moving equipment's creating less Noise pollution will be used.</li> <li>2. Noise shields near the heavy construction operations are provided.</li> <li>3. Construction activities are limited to daytime hours only.</li> <li>4. Site is barricaded from all sides.</li> </ol> <p>Also use of Personal Protective Equipment (PPE) like ear muffs and ear plug during construction activities.</p> <p>The ambient air and noise report is enclosed herewith. The report indicates that the same are within the prescribed norms defined by the concern authority.</p>
22.	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).	Condition is noted by PP.
23.	Ready mixed concrete must be used in building construction.	Yes, Ready mixed concrete added with fly ash is being used in the construction.
24.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	<p>Rainwater from terraces and other open area will be diverted to recharge pits for ground water recharge. The system shall be laid at appropriate time.</p> <p>Capacity of RWH storage tanks: 306 CUM.</p> <p>Nos. of RWH tanks: 1 No.</p> <p>There is no extraction of ground water in this project.</p>

25.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Ready mix concrete is being used to reduce water demand during construction.
26.	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	There is no extraction of ground water in this project. The ground water levels and its quality are checked before commencement of the project. The copy of the same is enclosed herewith.
27.	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 MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated affluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated affluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.	STP with 450 KLD capacity will be provided. Construction and installation of STP shall be carried out through expert consultant.  Treated water shall be used for the flushing and Gardening, Landscaping and Green belt area development.  After the satisfactory completion of the work, the installation will be get certified from independent expert agency and report in this regard will be submitted to the Ministry of Environment, Forest and Climate Change before the project is commissioned for operation.
28.	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	We are not drawing any water from ground. We will use only Tanker water for construction.
29.	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.	Yes, water will be separated by the use of dual plumbing line.
30.	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Adequate measures will be taken into consideration to minimize the wastage of water.
31.	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Glazing area will be maintained below 40% of the façade area for the residential buildings.
32.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	<ul style="list-style-type: none"> <li>• Roof insulation 50 mm expanded polystyrene or equivalent insulation.</li> <li>• Heat reflective double-glazed glass provided on external façade for the residential buildings.</li> </ul>

33.	<p>Energy conservation measures like installation of CFLs /TFLs 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 CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.</p>	<p>A separate energy conservation report attached with this report.</p>
34.	<p>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 combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.</p>	<ul style="list-style-type: none"> <li>• D.G. sets will be provided as back up for alternative electrical supply to Residential &amp; Commercial buildings.</li> <li>• 1 no's X 400 kVA and 1 no's X 125 kVA D.G. sets are proposed with silencer &amp; acoustic enclosures. The stacks shall be provided as per MPCB norms.</li> </ul>
35.	<p>Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.</p>	<p>Noise level monitoring is carried out regularly as per requirement. The noise levels measures are within the prescribed limits for day and night time. Monitoring report of noise levels attached.</p>
36.	<p>Traffic congestion 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 space should be utilized.</p>	<ul style="list-style-type: none"> <li>• This effect would be prominent during construction as well as operation phase. The probability of inconvenience faced due to the frequency of truck movement during construction phase would be minimized by better control of traffic movement in the area. Noise levels expected from the planned operating conditions have been assessed and are likely to be within acceptable levels. The impacts have been mitigated by the suggested measures in the "air control and management section".</li> </ul>

		<ul style="list-style-type: none"> <li>Anti-honking sign boards are placed in the parking areas and on entry and exit point. The project will be provided with sufficient road facilities within the project premises and there will be a large area provided for the parking of vehicles.</li> </ul>
37.	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	Opaque wall will meet prescriptive requirement as per draft Energy Conservation Building Code by use of appropriate thermal insulation material to fulfill requirement.
38.	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	The building has adequate distance to allow movement of fresh air and natural light, Ventilation.
39.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Regular supervision done by our site engineer to take care of the construction activity and of the surroundings.
40.	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	For undertaking the construction work, Environmental Clearance is already obtained. Environmental Clearance vide letter No. SEIAA-EC-0000002273 dated 24.06.2020 and, obtained transfer of EC from M/s Chariot Properties LLP Pvt Ltd to M/s Paradise Lifestyle Pvt Ltd vide letter no. SIA/MH/MIS/284473/2022 dtd 27.08.2022 for the total construction area of 1,10,348.02 sq.m.
41.	Six monthly monitoring reports should be submitted to the Regional office MoEF, Nagpur with copy to this department and MPCB.	We are herewith regularly submitting six monthly reports to Environment Department, Mantralaya & MPCB.
42.	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior	The provisions of STP, MSW disposal facility & Green Belt development will be completed before getting the Occupation certificate.

	certification from appropriate authority shall be obtained.	
43.	Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.	Wet garbage will be treated by Organic Waste Converter with curing system and manure shall be used for gardening.
44.	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	No occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
45.	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.	Complete set of all the documents submitted to the MPCB.
46.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Condition is noted by PP.
47.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Separate environment management cell with qualified staff is formed and implementing the same.

	<p>48. Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the MPCB &amp; this department.</p>	<p>EMP cost has been worked out and allocated for all air pollution devices and other facilities.</p> <p><b>EMP Cost:</b></p> <p>Construction phase-</p> <table border="1"> <thead> <tr> <th>Parameter</th><th>Total Cost per annum (Rs. In Lacs)</th></tr> </thead> <tbody> <tr> <td>Water Sprinkling, Green Belt Development, Covered storage area</td><td>2.00</td></tr> <tr> <td>Noise Barricades and Green Belt Developments</td><td>2.00</td></tr> <tr> <td>Modular STP, Drainage with Sedimentation tanks</td><td>1.5</td></tr> <tr> <td>Site Sanitation &amp; Health Care</td><td>1.5</td></tr> <tr> <td>Air, Water, Noise, Soil monitoring during construction phase</td><td>3</td></tr> </tbody> </table> <p>Operation Phase-</p> <table border="1"> <thead> <tr> <th>Description</th><th>Capital cost Rs. In Lacs</th><th>O &amp; M cost (Rs. in Lacs/yr)</th></tr> </thead> <tbody> <tr> <td>RWH</td><td>12</td><td>1</td></tr> <tr> <td>OWC</td><td>40</td><td>6</td></tr> <tr> <td>STP</td><td>15</td><td>3</td></tr> <tr> <td>Solar</td><td>60</td><td>6</td></tr> <tr> <td>Landscaping</td><td>78.10</td><td>15.63</td></tr> </tbody> </table>	Parameter	Total Cost per annum (Rs. In Lacs)	Water Sprinkling, Green Belt Development, Covered storage area	2.00	Noise Barricades and Green Belt Developments	2.00	Modular STP, Drainage with Sedimentation tanks	1.5	Site Sanitation & Health Care	1.5	Air, Water, Noise, Soil monitoring during construction phase	3	Description	Capital cost Rs. In Lacs	O & M cost (Rs. in Lacs/yr)	RWH	12	1	OWC	40	6	STP	15	3	Solar	60	6	Landscaping	78.10	15.63
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49.	<p>The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>.</p>	<p>The advertisement is published in Marathi and English language local newspaper. In Marathi newspaper 'Navshakti' dtd. 31.10.2019 &amp; in English newspaper 'The Free Press Journal' dtd. 31.10.2019 Respectively. Xerox copies of same are enclosed for your ready reference.</p>																														

50.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> December of each calendar year.	We are herewith regularly submitting six monthly reports to Environment Department, Mantralaya & MPCB.
51.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Yes, PP noted the condition and agreeable to the same.
52.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	PP reported that they regularly submitting six monthly reports to Environment Department, Mantralaya & MPCB.
53.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	PP reported that they regularly submitting six monthly reports to Environment Department, Mantralaya & MPCB.
54.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Condition is noted by PP.

55.	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.	Condition is noted by PP.
56.	In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.	Yes, PP noted the condition and agreeable to the same.
57.	The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Yes, PP noted the condition and agreeable to the same.
58.	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.	The PP Obtained Environmental Clearance vide letter No. SEIAA-EC-000002273 dated 24.06.2020 and, obtained transfer of EC from M/s Chariot Properties LLP Pvt Ltd to M/s Paradise Lifestyle Pvt Ltd vide letter no. SIA/MH/MIS/284473/2022 dtd 27.08.2022
59.	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Yes, PP noted the condition and agreeable to the same.
60.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and	Yes, PP noted the condition and agreeable to the same.

	its amendments, the public Liability Insurance Act, 1991 and its amendments.	
61.	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1stFloor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Yes, PP noted the condition and agreeable to the same.

**ENERGY  
CONSERVATION  
MEASURES**

**M/s. Chariot Properties LLP,**

Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 &  
1626A, Ulhasnagar -1, Thane.

## ENERGY CONSERVATION MEASURES

Area	Per day unit consumption	Saving percentage	Per day unit consumption with savings	Savings in units per day
Savings due to lamp				
Common Area Ltg.	141.89	22.00	110.67	31.22
Apartment internal lighting load - app 0.5 KW for apartment @8 hours per day	900.00	22.00	702.00	198.00
Commercial				
Commercial internal lighting load - @8hours per day	286.55	22.00	223.51	63.04
Savings due to electronic ballast				
Common Area Ltg.	141.89	18.00	116.35	25.54
Apartment internal lighting load - app 0.5 KW for apartment @8hours per day	900.00	18.00	738.00	162.00
Commercial				
Commercial internal lighting load - app 0.5 KW @8hours per day	286.55	18.00	234.97	51.58
Savings due to timer / sensor				
Savings in common lighting and external lighting due to timers	Refer 1.2a/b/c and 1.4 a/b/c above where by for total 12 hours operation of common area - where by time slots for 100% - 50% and 25% load is done and			221.79

	savings of 50% and 75% is achieved for 4 hours slots each respectively.		
Savings within apartment with use of Star rated geysers and AC			
Motor load for lifts + all pumps plumbing and STP -1648 KW	at 0.8 P.F. - load is 2060 KVA, whereas at 0.98 p.f. load is 1681.6 KVA - where by saving in consumption shall be 15%	Total units consumed by this equipments item no 1.1a +1.1b+1.1c+1.5+1.6 above per day = 1648 units	247.20
Star Rated Acs in FLAT	Total AC load is 1382.4 x 8 hrs KW= 11059 - where by saving in consumption shall be 15%		1,658.85
Inverter Acs in Shops & Offices	Total AC load is 661.47 KW x 8 hrs =5291.8 kwh where by saving in consumption shall be 30%	Total units consumed by this equipments above per day = 497.59 units	1,587.54
Therefore, Average KWH/Day Saving:			4,246.75
Therefore, Average KWH/Annum Saving:			1,550,064
THEREFORE, AVERAGE ANNUAL ENERGY SAVINGS IN %:			30.9%

Saving due to Solar Lights				
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% OF DEMAND LOAD 2339 = 70 KWS for street lighting, garden lighting, & common area lighting etc.Say Solar PV panels for 70 kws	Item No 1 =70 kws @ 5 Hrs/day.		Total units consumed by Solar panel x 5 Hrs.per day =350 kwp units	350.0
SOLAR POWER SYSTEM for 60kw				
TOTAL DEMAND LOAD = 2339 KWS				
3.0% OF DEMAND LOAD = 70 KWS	SAY	70.00	KWS	
NOS. OF SOLAR PANELS REQUIRED NOS.				215.4
SELECTED SOLAR PV PANELS FOR 70 KWS LOAD				216
PROPOSED SOLAR PV PANELS FOR 70 KWS LOAD				
NOS. OF SOLAR PV PANELS PROPOSED				216
The 50% solar power will be connected to the grid.				
TOTAL AREA REQUIRED AT TERRACE FOR SOLAR PANEL SQ.FT				562
SIZE OF HIGH EFFICIENT SOLAR POWER PANEL				2MX1.0MT
TOTAL AREA COVERED BY THE SOLAR POWER PANELS SQ.FT				432
MAINTAINANCE AND INVERTER ETC. SPACE SFT				130
TOTAL AREA FOR SOLAR SYSTEM SFT				562
TYPE OF SOLAR PANEL 325 WP				325

<b>NOS. OF SOLAR PANELS PROPOSED NOS.</b>				<b>216</b>
<b>TOTAL SOLAR POWER KWP</b>				<b>70.20</b>
<b>TOTAL POWER UNITS GENERATED IN 5 HRS AVERAGE (KWH)</b>				<b>351.00</b>
<b>LOAD CONNECTED TO SOLAR SYSTEM KWS</b>				<b>70.20</b>
<b>OPERATING HRS FOR 70 KW LOAD</b>				<b>5.00</b>
<b>TOTAL DEMAND LOAD KWS</b>				<b>2,339</b>
<b>TOTAL LOAD ON SOLAR PANEL KWS</b>				<b>70.20</b>
<b>% SAVINGS ON ONLY SOLAR PANELS</b>				<b>3.00%</b>
<b>SOLAR HOT WATER PANELS</b>				
0% Hot water requirement @ 25 liters per bathroom/per kitchen				<b>52500</b>
Hot water designed @ 18 liter per flat				<b>10800</b>
Solar Water Heating System-TOTAL % hot water				<b>0.206</b>
<b>RES BUILDING</b>				<b>86.40</b>
<b>TOTAL SOLAR HOT WATER PANEL ON TERRACE</b>				<b>87.00</b>
<b>SIZE OF SOLAR HOT WATER PANEL</b>				<b>2 MX1.0 MT</b>
<b>TOTAL AREA COVERED BY THE SOLAR POWER PANELS SQ.FT</b>				<b>2,247</b>
<b>TOTAL SOLAR HOT WATER FOR BATHING</b>	10,800	RS		

TAL KCAL @ 60deg Cent.=189000X(60-25)	3000	al.		
ctrical power required per day	3	/s		
TAL SAVING OF UNITS PER DAY	3	/H - UNITS		
NUAL SAVINGS THROUGH SOLAR HOT WATER PANELS FOR 240 DAYS	6354	/H - UNITS		
<b>THEREFORE, ADDITIONAL AVERAGE ANNUAL ENERGY SAVINGS WITH SOLAR WATER HEATING IN %:</b>				<b>2.12%</b>
<b>TAL SOLAR PV POWER AND SOLAR HOT WATER SAVINGS</b>				<b>5.12%</b>

# **HALF YEARLY POST ENVIRONMENTAL MONITORING REPORT**

OF

## **“Sai World Legend”**

Residential cum Commercial Project.

For

**April, 2022 - September, 2022**

**M/s. Chariot Properties LLP,**

Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 & 1626A, Ulhasnagar -1, Thane.

Prepared by

**ENVIRO ANALYSTS & ENGINEERS P. LTD.,**

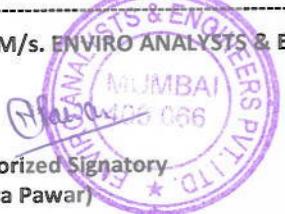
### Water Sample Analysis Report

<b>Report No. - EAEPL/PM/PLPL/04-02/05/2022</b>		<b>Report Date -11.05.2022</b>
<b>Name of Customer</b>	M/s. Paradise Lifestyles Pvt. Ltd.	<b>Reference – Verbal</b>
<b>Site Address</b>	"Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1	
<b>Nature and Description of Sample</b>	Tanker Water	Sample Collected by EAEPL Laboratory
<b>Sampling Locations and Sample Code</b>	PM/W/04-02/05/22 (Near Site Office Area)	Sample Quantity and Packing 2 L X 1 No. PVC Can. Sample Preservation Cool -Transported and stored at 5 °C (± 1°C).
<b>Date of Sampling</b>	03.05.2022	<b>Date of Receipt</b> 04.05.2022
<b>Sampling Procedure</b>	EAEPL/LAB/SOP/02	
<b>Period of Analysis</b>	04.05.2022 to 11.05.2022	
<b>Report for the month</b>	May, 2022	

<b>Parameters</b>	<b>Unit</b>	<b>Results</b>	<b>IS 10500:2012 Limits</b>		<b>Method</b>
			<b>Acceptable Limits</b>	<b>Permissible Limits</b>	
pH	-	7.63	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983) Reaffirmed 2017
Total Dissolved Solids	mg / L	282.00	500	2000	IS 3025 (Part 16) (1984) Reaffirmed 2017
Alkalinity	mg / L	60.90	200	600	IS 3025 (Part 23) (1986) Reaffirmed 2019
Turbidity	NTU	< 1.00	1	5	IS 3025 (Part 10) (1984) Reaffirmed 2017
Chlorides as Cl	mg / L	74.45	250	1000	IS 3025 (Part 32) (1988) Reaffirmed 2019
Total Hardness	mg / L	172.62	200	600	IS 3025 (Part 21) (2009) Reaffirmed 2019
Calcium	mg / L	51.30	75	200	IS 3025 (Part 40) (1991) Reaffirmed 2019
Residual chlorine	mg / L	< 0.10	0.20	1	IS 3025 (Part 26) (1986) Reaffirmed 2019
Sulphate	mg / L	19.48	200	400	IS 3025 (Part 24) (1986) Reaffirmed 2019
Nitrate	mg / L	0.60	45	No Relaxation	APHA 4500 NO <sub>3</sub> -B (23 <sup>rd</sup> Edition)
Fluoride	mg / L	0.45	1	1.5	APHA 4500 F-D (23 <sup>rd</sup> Edition)
<b>Heavy Metals:</b>					
Iron (Fe)	mg / L	0.172	0.3	No Relaxation	IS 3025 (Part 53) (2003) Reaffirmed 2019
Copper (Cu)	mg / L	0.033	0.05	1.5	IS 3025 (Part 42) (1992) Reaffirmed 2019
Zinc (Zn)	mg / L	0.178	5	15	IS 3025 (Part 49) (1994) Reaffirmed 2019
Lead (Pb)	mg / L	0.001	0.01	No Relaxation	IS 3025 (Part 47) (1994) Reaffirmed 2019
Chromium (Cr)	mg / L	0.037	0.05	No Relaxation	IS 3025 (Part 52) (2003) Reaffirmed 2019
<b>Microbiological Analysis:</b>					
Total Coliform	MPN/100ml	< 1	Absent	Shall not be detectable in any 100ml sample	IS 1622:(1981) Reaffirmed 2019
E coli	MPN/100ml	Absent	Absent	Absent	IS 1622:(1981) Reaffirmed 2019

End

For M/s. ENVIRO ANALYSTS &amp; ENGINEERS PVT. LTD.,

Authorized Signatory  
(Netra Pawar)

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).  
 2. This report is not to be reproduced except in full, without written approval of the laboratory.

## Ambient Air Quality Monitoring Report

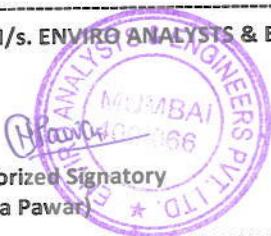
<b>Report No. - EAEPL/PM/PLPL/04-01/05/2022</b>		<b>Report Date - 11.05.2022</b>	
<b>Name of Customer</b>	<b>M/s. Paradise Lifestyles Pvt. Ltd.</b>		
<b>Site Address</b>	“Sai World Legend” at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1		<b>Reference – Verbal</b>
<b>Nature and Description of Sample</b>	Ambient Air	<b>Sample Collected by</b>	EAEPL Laboratory
<b>Sampling locations and Sample Code</b>	PM/A/04-01/05/22 (Near Main Gate of Site)	<b>Sample quantity and packing</b>	PM <sub>10</sub> = 1 * 1 No. Filter paper. PM <sub>2.5</sub> = 1 * 1 No. Filter paper. SO <sub>x</sub> = 30ml * 2 No. PVC bottle. NO <sub>x</sub> = 30ml * 2 No. PVC bottle.
		<b>Sample Preservation</b>	Filter papers – Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
<b>Date of Sampling</b>	03.05.2022	<b>Date of Receipt</b>	04.05.2022
<b>Sampling Procedure</b>	EAEPL/LAB/SOP/01		
<b>Period of Analysis</b>	04.05.2022 to 11.05.2022		
<b>Report for the month</b>	May, 2022		

Environmental Conditions			
Ambient Air Temperature (°C)	Relative Humidity (%)	Duration of Monitoring	
36°C	52 %	8 hours	
RESULTS			
Tests Parameter	Results	NAAQS LIMITS	METHOD
R.S.P.M (PM <sub>10</sub> ) (µg/m <sup>3</sup> )	49.15	100 µg/m <sup>3</sup>	IS 5182 Part 23
R.S.P.M (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> )	23.75	60 µg/m <sup>3</sup>	EAEPL/LAB/SOP/AIR/05
SO <sub>2</sub> (µg/m <sup>3</sup> )	24.19	80 µg/m <sup>3</sup>	IS 5182 Part-2 (2001) Reaffirmed 2017
NO <sub>x</sub> (µg/m <sup>3</sup> )	27.07	80 µg/m <sup>3</sup>	IS 5182 Part-6 (2006) Reaffirmed 2017

**Remark:** All the measured values are within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,



**Authorized Signatory**  
(Netra Pawar)

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).  
2. This report is not to be reproduced except in full, without written approval of the laboratory.

## Ambient Noise Level Monitoring Report

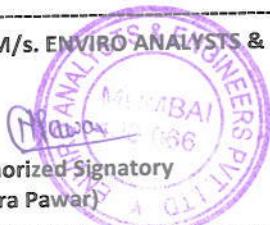
<b>Report No. - EAEPL/PM/PLPL/04-04/05/2022</b>		<b>Report Date - 11.05.2022</b>	
<b>Name of Customer</b>	M/s. Paradise Lifestyles Pvt. Ltd.	<b>Reference – Verbal</b>	
<b>Site Address</b>	"Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1		
<b>Nature and Description of Sample</b>	Noise	<b>Sample Collected by</b>	EAEP Laboratory
<b>Sampling locations and Sample Code</b>	PM/N/04-04/05/22	<b>Sample quantity and packing</b>	Not Applicable
<b>Date of Sampling</b>	03.05.2022	<b>Date of Receipt</b>	Not Applicable
<b>Sampling Procedure</b>	EAEP/LAB/SOP/04		
<b>Period of Analysis</b>	Not Applicable		
<b>Report for the month</b>	May, 2022		

<b>Monitoring Locations</b>	<b>Units</b>	<b>Results</b>		<b>CPCB Norms</b>	
		<b>Day Time</b>	<b>Night Time</b>	<b>Day</b>	<b>Night</b>
Near Main gate of Site	dB(A) Leq.	54.8	44.8	55	45
Near Backside of Site	dB(A) Leq.	53.6	39.5	55	45
Near Labour Camp of Site	dB(A) Leq.	54.9	42.3	55	45
Near Site Office	dB(A) Leq.	54.7	44.7	55	45

**Remark:** The noise level was observed to be within CPCB limit at all of the location.

End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,



**Authorized Signatory**  
(Netra Pawar)

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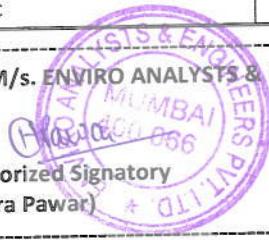
## Soil Sample Analysis Report

<b>Report No. - EAEPL/PM/PLPL/04-03/05/2022</b>		<b>Report Date - 11.05.2022</b>	
<b>Name of Customer</b>	M/s. Paradise Lifestyles Pvt. Ltd.		<b>Reference – Verbal</b>
<b>Site Address</b>	“Sai World Legend” at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1		
<b>Nature and Description of Sample</b>	Soil		EEAPL Laboratory
<b>Sampling locations and Sample Code</b>	PM/S/04-03/05/22 (Centreside of Site)	<b>Sample quantity and packing</b>	500 gm X 1 zip lock bag
		<b>Preservation</b>	Transported & stored in dry area
<b>Date of Sampling</b>	03.05.2022	<b>Date of Receipt</b>	04.05.2022
<b>Sampling Procedure</b>	EAEPL/LAB/SOP/03		
<b>Period of Analysis</b>	04.05.2022 to 11.05.2022		
<b>Report for the month</b>	May, 2022		

Parameters	Unit	Results	Methods
pH	-	7.46	IS 2720 (Part 26):1987, Reaffirmed:2016
Electrical Conductivity	µS/cm	359.61	IS 14767:2000, Reaffirmed:2021
Organic Matter	%	2.86	IS 2720 (Part 22) – 1972 (Reaffirmed 2020)
Available Phosphorus	mg/kg	1.53	EAEPL/LAB/SOP/SOIL/11
Sulphate	mg/kg	26.28	IS 3025 (Part 24):1986, (Water Extract 1:10) Reaffirmed 2019
Soil Moisture	%	17.82	IS 2720 (Part 02):1973 (Reaffirmed 2020) Oven drying method
Water Holding Capacity	%	36.14	EAEPL/LAB/SOP/SOIL/10
Total Kjeldhal Nitrogen	mg/kg	869.66	IS 14684:1999 (Reaffirmed 2019)
Calcium	mg/kg	2256.38	EPA 9080
Magnesium	mg/kg	154.85	EPA 9080
Chlorides	mg/kg	98.16	APHA 4500 Cl'B and ISRIC Soil analysis procedure, Page No:13-6
Sodium (Na)	mg/kg	2971.05	SW-846 Method 3050B
Potassium (K)	mg/kg	2824.68	SW-846 Method 3050B
<b>Heavy Metals:</b>			
Iron	mg/kg	81104.11	SW-846 Method 3050B
Lead	mg/kg	100.04	SW-846 Method 3050B
Copper	mg/kg	102.58	SW-846 Method 3050B
Zinc	mg/kg	136.26	SW-846 Method 3050B

End

For M/s. ENVIRO ANALYSTS &amp; ENGINEERS PVT. LTD.,

Authorized Signatory  
(Netra Pawar)

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## Ambient Air Quality Monitoring Report

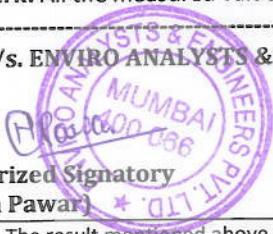
<b>Report No - EAEPL/PM/PLPL/16-01/09/2022</b>		<b>Report Date - 23.09.2022</b>	
<b>Name of Customer</b>		<b>M/s. Paradise Lifestyles Pvt. Ltd.</b>	
<b>Site Address</b>		"Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1	
<b>Nature and Description of Sample</b>	Ambient Air	<b>Sample Collected by</b>	EAEPL Laboratory
<b>Sampling locations and Sample Code</b>	PM/A/16-01/09/22 (Near Main Gate of site)	<b>Sample quantity and packing</b>	PM <sub>10</sub> = 1 * 1 No. Filter paper. PM <sub>2.5</sub> = 1 * 1 No. Filter paper. SO <sub>x</sub> = 30ml * 2 No. PVC bottle. NO <sub>x</sub> = 30ml * 2 No. PVC bottle.
		<b>Sample Preservation</b>	Filter papers – Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
<b>Date of Sampling</b>	15.09.2022	<b>Date of Receipt</b>	16.09.2022
<b>Sampling Procedure</b>	EAEPL/LAB/SOP/01		
<b>Period of Analysis</b>	16.09.2022 to 23.09.2022		
<b>Report for the month</b>	September, 2022		

Environmental Conditions			
Ambient Air Temperature (°C)	Relative Humidity (%)	Duration of Monitoring	
29°C	66%	8 Hours	
RESULTS			
Tests Parameter	Results	NAAQS LIMITS	METHOD
R.S.P.M (PM <sub>10</sub> ) (µg/m <sup>3</sup> )	74.86	100 µg/m <sup>3</sup>	IS 5182 (Part 23) 2006 Reaffirmed 2017
R.S.P.M (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> )	25.00	60 µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
SO <sub>2</sub> (µg/m <sup>3</sup> )	26.22	80 µg/m <sup>3</sup>	IS 5182 Part-2 (2001) Reaffirmed 2017
NO <sub>x</sub> (µg/m <sup>3</sup> )	29.08	80 µg/m <sup>3</sup>	IS 5182 Part-6 (2006) Reaffirmed 2017

**Remark:** All the measured values are within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,



**Authorized Signatory**  
**(Netra Pawar) \***

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**ENVIRO ANALYSTS & ENGINEERS PVT. LTD.**

(NABET, NABL Accredited and MoEFCC Approved)

CIN No-U28900MH1995PTC093129 | GST No-27AAACE6597R1ZF

B-1003, Enviro House, 10th Flr, Western Edge II, W.E. Highway, Borivali (E), Mumbai-400066

## Water Sample Analysis Report

Report No - EAEPL/PM/PLPL/16-02/09/2022		Report Date – 23.09.2022	
Name of Customer	M/s. Paradise Lifestyles Pvt. Ltd.		Reference – Verbal
Site Address	"Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1		
Nature and Description of Sample	Tanker Water	EAEPL Laboratory	EAEPL Laboratory
Sampling locations and Sample Code	PM/W/16-02/09/22 (Near Site Office area)	Sample quantity and packing	500ml X 1 No. St. PP Bottle
Date of Sampling	15.09.2022	Sample Preservation	Cool -Transported and stored at 5°C ( $\pm 1^{\circ}\text{C}$ ).
Sampling Procedure	EAEPL/LAB/MB/SOP/17		
Period of Analysis	16.09.2022 to 23.09.2022		
Report for the month	September, 2022		

Discipline: Biological

Group: Water

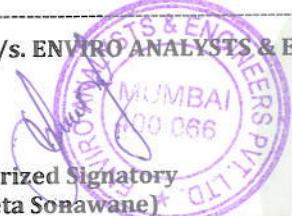
Parameters	Unit	Results	Method
<b>Microbiological Analysis:</b>			
Coliforms	MPN/100ml	< 2 MPN/100 ml	IS 1622:1981 Reaffirmed (2019)
<i>E. coli</i>	/100ml	Absent	IS 1622:1981 Reaffirmed (2019)

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Authorized Signatory  
(Shweta Sonawane)

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## Water Sample Analysis Report

<b>Report No - EAEPL/PM/PLPL/16-02/09/2022</b>		<b>Report Date – 23.09.2022</b>	
<b>Name of Customer</b>	<b>M/s. Paradise Lifestyles Pvt. Ltd.</b>		
<b>Site Address</b>	"Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1		<b>Reference – Verbal</b>
<b>Nature and Description of Sample</b>	Tanker Water	<b>Sample Collected by</b>	EAEPL Laboratory
<b>Sampling location and Sample Code</b>	PM/W/16-02/09/22 (Near Site Office area)	<b>Sample quantity and packing</b>	2 L X 1 No. PVC Can.
<b>Date of Sampling</b>	15.09.2022	<b>Sample Preservation</b>	Cool -Transported and stored at 5°C (± 1°C).
<b>Sampling Procedure</b>	EAEPL/LAB/SOP/02		
<b>Period of Analysis</b>	16.09.2022 to 23.09.2022		
<b>Report for the month</b>	September, 2022		

Parameters	Unit	Results	Method
pH	-	7.28	IS 3025 (Part 11) (2022)
Total Dissolved Solid	mg / l	290.00	IS 3025 (Part 16) (1984) Reaffirmed 2017
Turbidity	NTU	< 1.00	IS 3025 (Part 10) (1984) Reaffirmed 2017
Chlorides as Cl	mg / l	75.51	IS 3025 (Part 32) (1988) Reaffirmed 2019
Total Hardness	mg / l	180.56	IS 3025 (Part 21) (2009) Reaffirmed 2019
Calcium	mg / l	54.51	IS 3025 (Part 40) (1991) Reaffirmed 2019
Residual chlorine	mg / l	<0.10	IS 3025 (Part 26) 2021
Alkalinity	mg / l	66.63	IS 3025 (Part 23) (1986) Reaffirmed 2019
Sulphate	mg / l	23.04	IS 3025 (Part 24) Sec 1:2022
Nitrate	mg / l	0.65	APHA 4500 NO <sub>3</sub> -B (23 <sup>rd</sup> Edition)
Fluoride	mg / l	0.48	APHA 4500 F-D (23 <sup>rd</sup> Edition)
<b>Heavy Metals:</b>			
Iron (Fe)	mg / l	< LOQ 0.02	IS 3025 (Part 2) 2019
Copper (Cu)	mg / l	< LOQ 0.02	IS 3025 (Part 2) 2019
Zinc (Zn)	mg / l	< LOQ 0.02	IS 3025 (Part 2) 2019
Lead (Pb)	mg / l	< LOQ 0.02	IS 3025 (Part 2) 2019
Chromium (Cr)	mg / l	< LOQ 0.02	IS 3025 (Part 2) 2019

End

Note: LOQ – Limit of Quantification

For M/s. ENVIRO ANALYSTS &amp; ENGINEERS PVT. LTD.,

**Authorized Signatory**  
**(Shilpa Dhamankar)**

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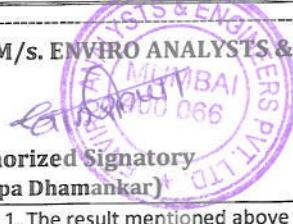
## Soil Sample Analysis Report

<b>Report No - EAEPL/PM/PLPL/16-03/09/2022</b>			<b>Report Date - 23.09.2022</b>
<b>Name of Customer</b>	M/s. Paradise Lifestyles Pvt. Ltd.		
<b>Site Address</b>	"Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1		
<b>Nature and Description of Sample</b>	Soil	<b>Sample Collected by</b>	EAEP Laboratory
<b>Sampling locations and Sample Code</b>	PM/S/16-03/09/22 (Centreside of Site)	<b>Sample quantity and packing</b>	500 gm X 1 zip lock bag
<b>Preservation</b>			Transported & stored in dry area
<b>Date of Sampling</b>	15.09.2022	<b>Date of Receipt</b>	16.09.2022
<b>Sampling Procedure</b>	EAEP/LAB/SOP/03		
<b>Period of Analysis</b>	16.09.2022 to 23.09.2022		
<b>Report for the month</b>	September, 2022		

Parameters	Unit	Results	Methods
pH	-	7.24	IS 2720 (Part 26):1987, (Reaffirmed 2021)
Electrical Conductivity	µS/cm	382.40	IS 14767:2000, (Reaffirmed 2021)
Soil Moisture	%	18.64	IS 2720 (Part 02):1973 (Reaffirmed 2020) Oven drying method
Water Holding Capacity	%	37.06	EAEP/LAB/SOP/SOIL/10
Total Kjeldhal Nitrogen	mg/kg	879.53	IS 14684:1999 (Reaffirmed 2019)
Organic Matter	%	2.92	IS 2720 (Part 22) – 1972 (Reaffirmed 2020)
Chlorides	mg/kg	99.47	EAEP/LAB/SOP/SOIL/03
Calcium	mg/kg	2186.91	EPA 9080
Magnesium	mg/kg	117.56	EPA 9080
Sulphate	mg/kg	30.53	IS 2720 (Part 27):1977 (Reaffirmed 2020)
Available Phosphorus	mg/kg	1.65	EAEP/LAB/SOP/SOIL/11
Sodium (Na)	mg/kg	3053.04	EPA 3050B
Potassium (K)	mg/kg	2953.53	EPA 3050B
<b>Heavy Metals:</b>			
Copper	mg/kg	104.45	EPA 3050B
Iron	mg/kg	84014.27	EPA 3050B
Lead	mg/kg	105.65	EPA 3050B
Zinc	mg/kg	149.08	EPA 3050B

-End-

For M/s. ENVIRO ANALYSTS &amp; ENGINEERS PVT. LTD.,



**Authorized Signatory**  
(Shilpa Dhamankar)

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### Ambient Noise Level Monitoring Report

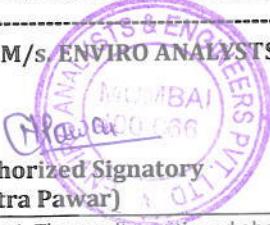
Report No - EAEPL/PM/PLPL/16-04/09/2022			Report Date -23.09.2022
Name of Customer			Reference – Verbal
Site Address			"Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	PM/N/16-04/09/22	Sample quantity and packing	Not Applicable
Date of Sampling	15.09.2022	Date of Receipt	Not Applicable
Sampling Procedure	EAEPL/LAB/SOP/04		
Period of Analysis	Not Applicable		
Report for the month	September, 2022		

Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near Main gate of Site	dB(A) Leq.	54.2	44.5	55	45
Near Backside of Site	dB(A) Leq.	53.8	39.9	55	45
Near Labour Camp of Site	dB(A) Leq.	54.4	43.8	55	45
Near Site Office	dB(A) Leq.	53.7	44.7	55	45

Remark: The noise level was observed to be within CPCB limits at all of the locations.

End-----

For M/s. ENVIRO ANALYSTS &amp; ENGINEERS PVT. LTD.,



Authorized Signatory  
(Netra Pawar)

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# **ENVIRONMENT CLEARANCE**

## **STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

No. SIA/MH/MIS/284473/2022

Environment & Climate Change Department  
Room No. 217, 2<sup>nd</sup> Floor,  
Mantralaya, Mumbai- 400032.

Date: 27-08-2022

To,

M/s. Paradise Lifestyles Private Limited  
Plot No. 6(p), 7 & 8, sheet No. 92, 93 & 94,  
CTS No. 1618, 1619 A, 1625 & 1626 A,  
Ulhasnagar-1

**Subject:** Transfer of Environmental Clearance for Proposed project "Sai World Legend"  
at plot No. 6(p), 7 & 8, sheet No. 92, 93 & 94, CTS No. 1618, 1619 A, 1625 &  
1626 A, Ulhasnagar-1

**Ref:** 1) Your application no. SIA/MH/MIS/284473/2022  
2) EC Letter no. SEIAA-EC-0000002273 dated 24.06.2020

1. This has reference to your online application vide proposal No. SIA/MH/MIS/284473/2022 in prescribed Form - 7 and other documents for seeking transfer of Environmental Clearance (EC) of the project mentioned in the subject.

2. M/s. Chariot Properties LLP was granted EC Letter no. SEIAA-EC-0000002273 dated 24.06.2020 for Proposed project "Sai World Legend" at plot No. 6(p), 7 & 8, sheet No. 92, 93 & 94, CTS No. 1618, 1619 A, 1625 & 1626 A, Ulhasnagr-1. Now, you have applied for transfer of EC dated 24.06.2020 from M/s. Chariot Properties LLP to M/s. Paradise Lifestyles Private Limited as you have taken over the project under reference.

3. You have submitted following documents in support of your application for transfer of EC-

- i. No Objection from the transferor.
- ii. Undertaking by transferee stating regarding acceptance of the terms and conditions was granted.
- iii. Transfer of the firm from competent authority.

4. SEIAA in its 249<sup>th</sup> (Day-2) meeting held on 26.08.2022 noted the above facts and decided to transfer EC dated 24.06.2020 from M/s. Chariot Properties LLP to M/s. Paradise Lifestyles Private Limited.

5. This letter shall be read with the EC letter dated 24.06.2020.

6. All the other terms and conditions mentioned in the EC letter dated 24.06.2020 shall remain the same.

  
Manisha Patankar Mhaiskar  
(Member Secretary, SEIAA)  
27/08/2022



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date:June 24, 2020

To,

**M/s. Chariot Properties LLP**

at Plot no. 6(P), 7 & 8, CTS No. 1618, 1619, 1625 & 1626 A, Ulhasnagar -1

**Subject:** Environment Clearance for Proposed project "Sai World Legend" at Plot no. 6(P), 7 & 8, CTS No. 1618, 1619A, 1625 & 1626A, Ulhasnagar -1. by M/s. Chariot Properties LLP

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-II, Maharashtra in its 130th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 195th meetings.

2. It is noted that the proposal is considered by SEAC-II under screening category 8 (a) as per EIA Notification 2006.

### Brief Information of the project submitted by you is as below :-

1.Name of Project	Sai World Legend
2.Type of institution	Private
3.Name of Project Proponent	M/s. Chariot Properties LLP
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt Ltd
5.Type of project	Residential and commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot no. 6(P), 7 & 8, CTS No. 1618, 1619, 1625 & 1626 A, Ulhasnagar -1
9.Taluka	Ulhasnagar
10.Village	Ulhasnagar
Correspondence Name:	M/s. Chariot Properties LLP
Room Number:	1701
Floor:	17th
Building Name:	Satra plaza
Road/Street Name:	Palm beach road
Locality:	Sector 19 D Vashi
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	Ulhasnagar Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Approval is in process
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Approval is in process
	Approved Built-up Area: 00

13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	31535.65 sqm
16.Deductions	4869.87 sqm
17.Net Plot area	26665.78 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	<p>FSI area (sq. m.): Basic 1 FSI = 26665.78 TDR (Basic X 1.4)= 37332.09 Total = 63997.87</p> <p>Non FSI area (sq. m.): 46350.15</p> <p>Total BUA area (sq. m.): 110348.02</p>
18 (b).Approved Built up area as per DCR	<p>Approved FSI area (sq. m.): Proposal submitted in UMC on 17.02.2020 for Approval</p> <p>Approved Non FSI area (sq. m.): -</p> <p>Date of Approval: 17-02-2020</p>
19.Total ground coverage (m2)	11482.00 sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36.50 %
21.Estimated cost of the project	2300000000



# Government of Maharashtra

## 22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

## 23. Total Water Requirement

Dry season:	Source of water	UMC/Recycle water from STP
	Fresh water (CMD):	306
	Recycled water - Flushing (CMD):	157
	Recycled water - Gardening (CMD):	29
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	492
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	Residential : 10 Cum on each building Commercial: 5 cum
	Excess treated water	225
Wet season:	Source of water	UMC/Recycle water from STP /RWH
	Fresh water (CMD):	306
	Recycled water - Flushing (CMD):	157
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	463
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	Residential : 10 Cum on each building Commercial - 5 cum
	Excess treated water	254
Details of Swimming pool (If any)	-	

#### 24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

25.Rain Water Harvesting (RWH)	Level of the Ground water table:	2.1 to 3.1 Mtrs
	Size and no of RWH tank(s) and Quantity:	306 cum
	Location of the RWH tank(s):	Below ground level
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	12 Lakhs
	Budgetary allocation (O & M cost) :	1 Lakh/Annum
	Details of UGT tanks if any :	Domestic tank: Residential 450 cum + Commercial : 15 cum Flushing tank: Residential 270 cum + Commercial : 15 cum Fire tank: 200 cum RWH tank Capacity: 306 cum

26.Storm water drainage	Natural water drainage pattern:	S to N-W
	Quantity of storm water:	0.58 cum/sec
	Size of SWD:	750 mm x 900 mm

27.Sewage and Waste water	Sewage generation in KLD:	432 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 nos. of STP with total capacity of 450 KLD and Area of STP: 570 sqm
	Location & area of the STP:	Ground level
	Budgetary allocation (Capital cost):	40 lakhs
	Budgetary allocation (O & M cost):	6 lakhs/yr

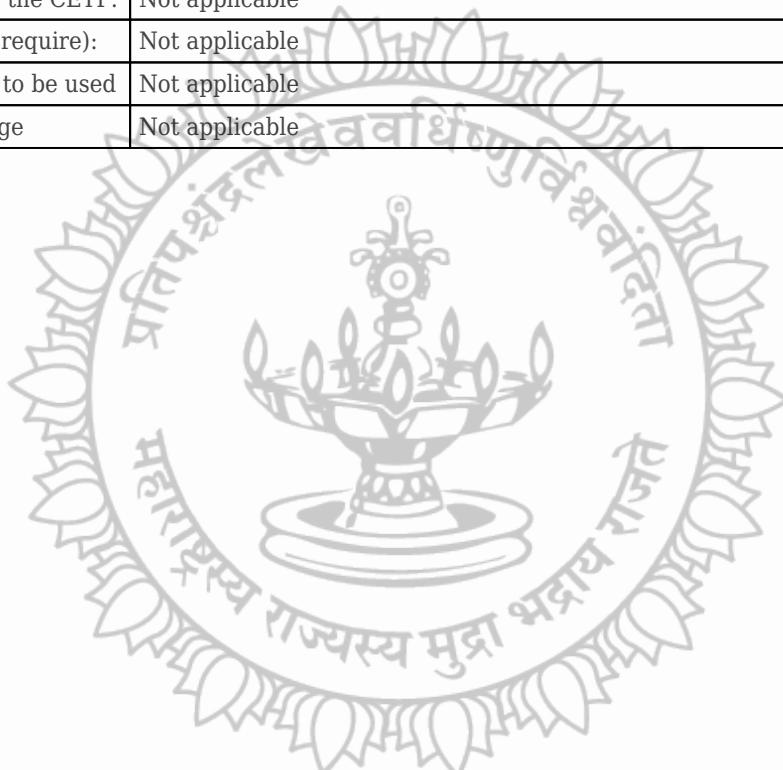
## 28.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	<b>Disposal of the construction waste debris:</b>	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	760 kg/day
	<b>Wet waste:</b>	1033 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	18 kg/day
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Will be handed over to Local Recyclers.
	<b>Wet waste:</b>	Will be processed in the OWC. manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	To be used as manure & replacement of saw dust for OWC.
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Located at Ground Level
	<b>Area for the storage of waste &amp; other material:</b>	222 sq.m
	<b>Area for machinery:</b>	24 sq.m
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	15 Lakh
	<b>O &amp; M cost:</b>	3 Lakh/yr

**Government of  
Maharashtra**

## 29.Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):	Not applicable				
Capacity of the ETP:	Not applicable				
Amount of treated effluent recycled :	Not applicable				
Amount of water send to the CETP:	Not applicable				
Membership of CETP (if require):	Not applicable				
Note on ETP technology to be used	Not applicable				
Disposal of the ETP sludge	Not applicable				



# Government of Maharashtra

### 30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable						

### 31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total	
1	Not applicable	Not applicable	Not applicable	Not applicable	
33.Source of Fuel		Not applicable			
34.Mode of Transportation of fuel to site		Not applicable			

### 35.Energy

<b>Power requirement:</b>	Source of power supply :	MSEB
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	75 kW
	During Operation phase (Connected load):	11343 kW
	During Operation phase (Demand load):	2339 kW
	Transformer:	1 no's X 1250 kVA and 2 no's X 1000 kVA
	DG set as Power back-up during operation phase:	1 no's X 400 kVA and 1 no's X 125 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

**Energy saving by non-conventional method:**

- 1) Hot water provision made using Solar Hot water :- 25 liters solar hot water per flat is considered . The total hot water capacity is 5100 liters(26.7%).The total nos. of Solar hot water panels are 41 nos.
- 2) system LED lights used for Staircase & Lobby:- Energy efficient LED lamps which gives app. 30% more light/lumen output for the same wattage consumed ,and therefore required less nos. of fixtures corresponding lower point wiring at lower cost.
- 3) LED Lights put on Solar PV Panels:- The 1.5% of the demand load ,which is 44 kw ,is taken on the solar PV panels.The total nos. of Solar PV panels are 147 nos. Out of 44 kws solar power , the 50% (22 kw) will be connected to Common area LED lights, with a net metering ,on grid , connection.
- 4) LED lights used for Ext. Road Lighting

### **36.Detail calculations & % of saving:**

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy savings	30.9 %

### **37.Details of pollution control Systems**

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	60 Lakhs
	O & M cost:	6 Lakhs/yr

### **38.Environmental Management plan Budgetary Allocation**

#### **a) Construction phase (with Break-up):**

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	2
2	Noise Environment	Noise Baricades and Green Belt Developments	2
3	Water Environment	Modular STP , Drainage with sedimentation tanks	1.5
4	Good Health Practices	Site Sanitation & Health Care	1.5
5	Environment Monitoring	Environment Monitoring	3

#### **b) Operation Phase (with Break-up):**

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	RWH	12	1
2	Water Environment	STP	40	6
3	Solid waste management	OWC	15	3
4	Energy Savings	Solar	60	6
5	Land environment	Landscaping	78.10	15.63

### **39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)**

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>40. Any Other Information</b>							
No Information Available							



# Government of Maharashtra

	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	8 (a)
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

**3. The proposal has been considered by SEIAA in its 195th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:**

**Specific Conditions:**

I	PP to abide the suggestions listed in the hydrology study report. PP to incorporate the same in designing & construction.
II	PP to submit the tree NoC.
III	PP to submit the CFO NoC.
IV	The planning authority to ensure that no occupation certificate is given to the Project till surplus discharge from STP of the Project is connected to duly developed and commissioned sewage disposal system of local planning authority.
V	The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
VI	PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.
VII	PP to ensure that CER plan gets approved from Municipal Commissioner
VIII	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA.III dt.04.01.2019.
IX	SEIAA decided to grant EC for - FSI: 29949.20 m <sup>2</sup> , Non-FSI:46305.15 m <sup>2</sup> and Total BUA:76254 m <sup>2</sup> (Plan Approval no-JK/UMP/NRV/BP/4016/234, date-17.12.2019)

**General Conditions:**

I	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.
II	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.
III	This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.
IV	PP has to abide by the conditions stipulated by SEAC& SEIAA.

V	The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & 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.
VI	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
VII	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
VIII	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 wastewater and solid wastes generated during the construction phase should be ensured.
IX	The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
X	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 sites with the approval of competent authority.
XI	Arrangement shall be made that waste water and storm water do not get mixed.
XII	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
XIII	Additional soil for leveling 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.
XIV	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XV	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.
XVI	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.
XVII	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
XVIII	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.
XIX	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
XX	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
XXI	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads 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 during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.
XXII	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).
XXIII	Ready mixed concrete must be used in building construction.
XXIV	Storm water control and its re-use as per CGWB and BIS standards for various applications.
XXV	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
XXVI	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
XXVII	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 MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated affluent, if any should be discharge in the sewer line.Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated affluent, if any should be discharge in the sewer line.Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.
XXVIII	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.

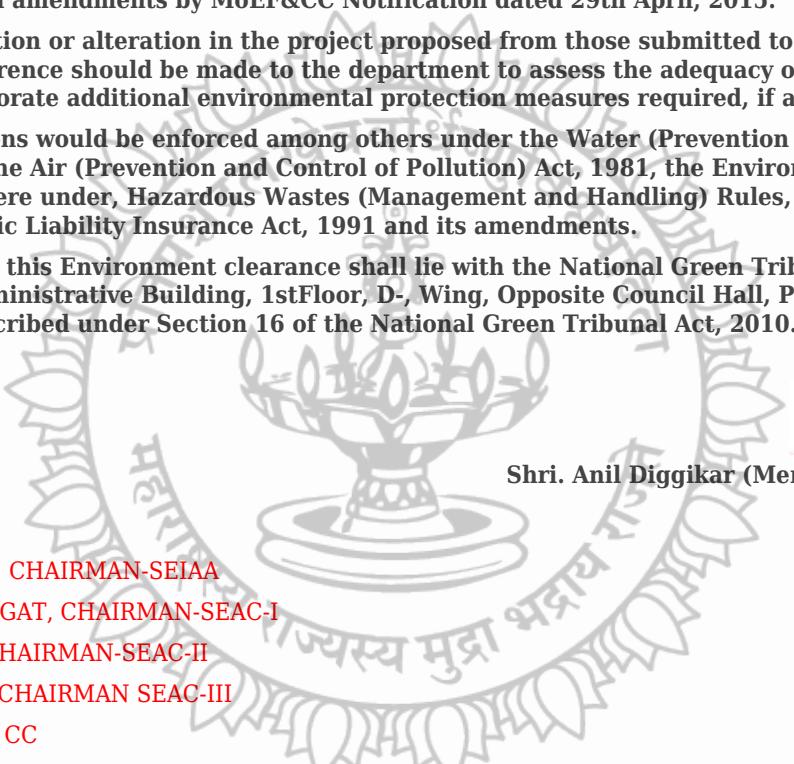
<b>XXIX</b>	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.
<b>XXX</b>	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
<b>XXXI</b>	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.
<b>XXXII</b>	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
<b>XXXIII</b>	Energy conservation measures like installation of CFLs /TFLs 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 CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.
<b>XXXIV</b>	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 combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
<b>XXXV</b>	Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
<b>XXXVI</b>	Traffic congestion 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 space should be utilized.
<b>XXXVII</b>	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
<b>XXXVIII</b>	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
<b>XXXIX</b>	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
<b>XL</b>	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.
<b>XLI</b>	Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.
<b>XLII</b>	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.
<b>XLIII</b>	Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.
<b>XLIV</b>	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
<b>XLV</b>	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.
<b>XLVI</b>	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.
<b>XLVII</b>	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
<b>XLVIII</b>	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the MPCB & this department.
<b>XLIX</b>	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a> .

L	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
LI	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
LII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
LIII	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
LIV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.



# Government of Maharashtra

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.
8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.




Shri. Anil Diggikar (Member Secretary SEIAA)

**Copy to:**

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER MUMBAI
10. MUNICIPAL COMMISSIONER NAVI MUMBAI
11. MUNICIPAL COMMISSIONER THANE
12. REGIONAL OFFICE MPCB MUMBAI
13. REGIONAL OFFICE MPCB NAVI MUMBAI
14. REGIONAL OFFICE MPCB THANE
15. REGIONAL OFFICE MIDC ANDHERI
16. REGIONAL OFFICE MIDC KOPER KHAI'RANE NAVI MUMBAI
17. REGIONAL OFFICE MIDC AMBERNATH
18. REGIONAL OFFICE MIDC THANE
19. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
20. COLLECTOR OFFICE MUMBAI
21. COLLECTOR OFFICE MUMBAI SUB-URBAN
22. COLLECTOR OFFICE THANE



# Maharashtra Pollution Control Board

## महाराष्ट्र प्रदूषण नियंत्रण मंडळ

### Application for Consent/ Authorisation

Sir,  
I/We hereby apply for\*

1. Consent to Establish/Operate/Renewal of consent under section 25 and 26 of the Water (Prevention & Control of Pollution) Act, 1974 as amended.
2. Consent to Establish/Operate/Renewal of consent under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended.
3. Authorization/renewal of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 in connection with my/our/existing/proposed/ altered/ additional manufacturing/processing activity from the premises as per the details given below.

#### Consent Information

**UAN No:**  
MPCB-CONSENT-0000150438

**Application submitted on:**  
11-10-2022

#### Industry Information

**Consent To:**  
Establish (New)

**IIN No.:**

**Submit to:**  
SRO - Kalyan II

**Type of institution:**  
Industry

**Industry Type:**

**Category:**  
Orange

**Scale:**  
M.S.I

**Location of industry/activity/etc:**  
Local Body

**Name of Local Body:**

Ulhasnagar Municipal Corporation

**EC Reqd.**  
Yes

**EC Obtained**  
EC Obtained

**EC Ref. No.**  
SEIAA-EC-0000002273

**Date of issue of EC**  
Jun 24, 2020

**Parivesh Proposal Number**  
SEIAA-EC-0000002273

**MoEFCC/SEIAA File Number**  
SEIAA-EC-0000002273

**Whether construction-buildup area is more than 20,000 sq.mtr.(Existing Expansion Unit)**

Yes

#### General Information

1. Name, designation, office address with Telephone/Fax numbers, e-mail of the Applicant Occupier/Industry/Institution / Local Body.

**Name**  
Mr. Umesh Kumar

**Address**  
1701, 17th floor, Satra plaza, Palm beach road, Sector 19 D Vashi , Navi Mumbai

**Designation**  
Legal and Liasoning Head

**Taluka**  
Ulhasnagar

**Area**  
Ulhasnagar

**Telephone**  
9167216345

**Email**  
uku6510@gmail.com

**District**  
Thane

**Fax**

**Pan Number**  
AALCA9152F

2. (a) Name and location of the industrial unit/premises for which the application is made (Give revenue Survey Number/Plot number name of Taluka and District, also telephone and fax number)

**Industry name**

M/s. Paradise Lifestyle Pvt. Ltd.

**Location of Unit**

Sai World Legend" at Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A, Ulhasnagar -1

**Survey number/Plot Number**

Plot no. 6(P), 7 & 8, Sheet No 92,93 & 94, CTS No. 1618, 1619A, 1625 & 1626 A

**Taluka**

Thane

**District**

Thane

(b) Details of the planning permission obtained from the local body/Town and Country Planning authority/Metropolitan Development authority/ designated Authority.

**Planning permission**

Ulhasnagar Municipal Corporation

**Planning Authority**

Ulhasnagar Municipal Corporation

Name of the local body under whose jurisdiction the unit is located and Name of the licence issuing authority

**Name of Local Body**

Ulhasnagar Municipal Corporation

**Name of the licence issuing authority**

Ulhasnagar Municipal Corporation

3. Names, addresses with Telephone and Fax Number of Managing Director / Managing Partner and officer responsible for matters connected with pollution control and/or Hazardous waste disposal.

**Name of Managing Director**

Mr. Umesh Kumar Upadhyaya

**Telephone number**

9167216345

**Fax number**

-

**Officer responsible for day to day business**

Mr. Umesh Kumar Upadhyaya

4. (a.) Are you registered Industrial unit ?

Yes

**Registration number**

AAN-8982

**Date of registration**

Apr 24, 2020

5. Gross capital investment of the unit without depreciation till the date of application (Cost of building, land, plant and machinery). (To be supported by an affidavit/undertaking on Rs.20/- stamp paper, annual report or certificate from a Chartered Accountant for proposed unit(s), give estimated figure)

**Gross capital (in Lakh)**

20000.00

**\* Verified**

Undertaking

**\* Terms**

1

**\* Consent Fee**

400000.00

6. If the site is located near sea-shore/river bank/other water bodies/Highway, Indicate the crow fly distance and the name of the water body, if any.

**Distance From**

SH/NH

**Distance(Km)**

0.00

**\* Name**

--NA--

River

0.00

--NA--

Human Habitation

0.00

--NA--

Religious Place

0.00

--NA--

Historical Place

0.00

--NA--

Creek/Sea

0.00

--NA--

6b. Enter Latitude and Longitude details of site

<b>Latitude</b>	<b>Longitude</b>
0	0

7. Does the location satisfy the Requirements Under relevant Central/State Govt. Notification such as Coastal Regulation Zone. Notification on Ecologically Fragile Area, Industrial Location policy, etc. If so, give details.

<b>Location</b>	<b>Approved Industry Area</b>	<b>Sensitive Area</b>	<b>If Yes, Name Of Area</b>	<b>Industry Location with Reference to CRZ</b>
0	No	No	0	

8. If the site is situated in notified industrial estate,

		<b>Details</b>
<b>(a) Whether effluent collection, treatment and disposal system has been provided by the authority.</b>	No	0
<b>(b) Will the applicant utilize the system, if provided.</b>	No	0
<b>(c) If not provided, details of proposed arrangement.</b>	0	

9.

<b>(a) Total plot area (in square meter)</b>	<b>(b) Built up area and (in square meter)</b>	<b>(c) Area available for the use of treated sewage/ trade effluent for gardening/irrigation. (in square meter)</b>
31535.65	157468.50	4307.87

10. Month and year of commissioning of the Unit.

2024-12-01

11. Number of workers and office staff

<b>Workers</b>	<b>staff</b>	<b>Hrs. of shift</b>	<b>Weekly off</b>
75	50	9	1

12.

<b>(a) Do you have a residential colony Within the premises in respect of Which the present application is Made ?</b>	No	Building construction project for proposed Residential cum commercial development ECT
<b>(b) If yes, please state population staying</b>		
<b>Number of person staying      Water consumption</b>		
Number of person staying	Water consumption	<b>Sewage generation</b>
0	0	0
<b>Whether is STP provided?</b>		
		No
<b>(c) Indicate its location and distance with reference to plant site.</b>		
<b>Number of person staying</b>		<b>Water consumption</b>
0		0

13. List of products and by-products Manufactured in tonnes/month, KI/month or numbers/month with their types i.e.Dyes, drugs etc. (Give figures corresponding to maximum installed production capacity)

**Products Name and Quantity**

<b>Product Name</b>	<b>UOM</b>	<b>Product Name</b>	<b>Existing</b>	<b>Consented</b>	<b>Proposed Revision</b>	<b>Total</b>	<b>Remarks</b>

OTHERS	Sq.M	Building construction project	0	0	157468.50	157468.5	NA
--------	------	-------------------------------	---	---	-----------	----------	----

#### Products Name and Quantity

Product Name	UOM	Quantity	Remarks
NA	--NA--	0	NA

14. List of raw materials and process chemicals with annual consumption corresponding to above stated production figures, in tonnes/month or kl/month or numbers/month.

Name of Raw Material	UOM	Quantity	Hazardous Waste	Hazardous Chemicals	Remarks
NA	--NA--	0	No	No	NA

15. Description of process of manufacture for each of the products showing input, output, quality and quantity of solid, liquid and gaseous wastes, if any from each unit process.

NA

#### Part B : Waste Water aspects

16. Water consumption for different uses (m3/day)

Purpose	Consumption	Effluent Generation	Treatment	Remarks	Disposal	Remarks
Domestic Purpose	743	670	STP	700 KLD STP will be provided with MBBR Technology	Recycle	Treated Water will be used for Flushing & Gardening
Water gets Polluted & Pollutants are Biodegradable	0	0	--NA--	0	--NA--	0
Water gets Polluted, Pollutants are not Biodegradable & Toxic	0	0	--NA--	0	--NA--	0
Industrial Cooling,spraying in mine pits or boiler feed	0	0	--NA--	0	--NA--	0
Others	40 - Gardening					

17. Source of water supply, Name of authority granting permission if applicable and quantity permitted.

Source of water supply	Name of Local Body	Name of authority granting permission	Quantity permitted
Local Body	Ulhasnagar Municipal Corporation	Ulhasnagar Municipal Corporation	494

18. Quantity of waste water (effluent) generated (m3/day)

Domestic	Boiler Blowdown	Industrial	Cooling water blowdown
670	0	0	0
Process	DM Plants/Softening	Washing	Tail race discharge from
0	0	0	0

\* 19. Water budget calculations accounting for difference between water consumption and effluent generated.

0

20. Present treatment of sewage/canteen effluent (Give sizes/capacities of treatment units).

**Capacity of STP (m<sup>3</sup>/day)**

700

<b>Treatment unit</b>	<b>Size (mxm)</b>	<b>Retention time (hr)</b>
Screen Chamber	18.75	0.64
Collection Tank	225.5	7.73
MBBR Tank	192.5	6.6
Secondary Settler	6.0	2.05
Filter Feed Tank	64.9	2.22
Sludge Tank	161.7	5.54

21. Present treatment of trade effluent (Give sizes/capacities of treatment units) (A schematic diagram of the treatment scheme with inlet/outlet characteristics of each unit operation/process is to be provided. Include details of residue Management system (ETP sludges)

**Capacity of ETP (m<sup>3</sup>/day)**

0

<b>Treatment unit</b>	<b>Size (mxm)</b>	<b>Retention time (hr)</b>
0	0	0

22.

**(i) Are sewage and trade effluents mixed together?**

No

**If yes, state at which stage-Whether before, intermittently or after treatment.**

NA

23. Capacity of treated effluent sump, Guard Pond if any.

**Capacity of treated effluent sump (m<sup>3</sup>)** NA

**Effluent sump/Guard pond details** No NA

**If yes, state at which stage-Whether before, intermittently or after treatment.** No NA

24. Mode of disposal of treated effluent With respective quantity, m<sup>3</sup>/day

<b>(i) into stream/river (name of river)</b>	0	<b>(ii) into creek/estuary (name of Creek/estuary)</b>	0
<b>(iii) into sea</b>	0	<b>(iv) into drain/sewer (owner of sewer)</b>	380
<b>(v) On land for irrigation on owned land/ase land. Specify cropped area.</b>	0	<b>(vi) Connected to CETP</b>	0
<b>(vii) Quantity of treated effluent reused/ recycled, m<sup>3</sup>/day Provide a location map of disposal arrangement indicating the outlet(s) for sampling.</b>	289		
<b>Treated effluent reused / recycled (m<sup>3</sup>/day)</b>			

25. (a) Quality of untreated/treated effluents (Specify pH and concentration of SS, BOD,COD and specific pollutants relevant to the industry. TDS to be reported for disposal on land or into stream/river.

#### Untreated Effluent

<b>pH</b>	6.5 - 9.5
<b>SS (mg/l)</b>	400 - 450
<b>BOD (mg/l)</b>	350-400
<b>COD (mg/l)</b>	500-600
<b>TDS (mg/l)</b>	1000-2000
<b>Specific pollutant if any</b>	<b>Name</b> <b>Value</b>
	1

#### Treated Effluent

<b>pH</b>	6.5 - 7.5
<b>SS (mg/l)</b>	< 10
<b>BOD (mg/l)</b>	< 10
<b>COD (mg/l)</b>	< 50
<b>TDS (mg/l)</b>	< 500
<b>Specific pollutant if any</b>	<b>Name</b> <b>Value</b>
	1

(b) Enclose a copy of the latest report of analysis from the laboratory approved by State Board/ Committee/Central Board/Central Government in the Ministry of Environment expected characteristics of the untreated/treated effluent

NA

#### 26. Fuel consumption

<b>Fuel Type</b>	<b>UOM</b>	<b>Fuel Consumption TPD/LKD</b>	<b>Calorific value</b>
HSD	Kg/Day	406.25	0
<b>Ash content</b>	<b>Sulphur content</b>	<b>Quantity</b>	<b>Other (specify)</b>
0	0	1	0

#### 27. (a) Details of stack (process & fuel stacks: D. G. )

<b>(a) Stack number(s)</b>	<b>(b) Stack attached to</b>	<b>(c) Capacity</b>	<b>(d) Fuel Type</b>
1	DG Set	600 KVA	HSD
<b>(e) Fuel quantiy (Kg/hr.)</b>	<b>(f) Material of construction</b>	<b>(g) Shape (round/rectangular)</b>	<b>(h) Height, m (above ground level)</b>
150	MS	Round	5
<b>(i) Diameter/Size, in meters</b>	<b>(j) Gas quantity, Nm<sup>3</sup>/hr.</b>	<b>(k) Gas temperature °C</b>	<b>(l) Exit gas velocity, m/sec.</b>
0.1	146.61	112	7.05
<b>(m) Control equipment preceding the stack</b>	<b>(n) Nature of pollutants likely to present in stack gases such as Cl<sub>2</sub>, Nox, Sox TPM etc.</b>	<b>(o) Emissions control system provided</b>	<b>(p) In case of D.G. Set power generation capacity in KVA</b>
Acoustic Hood	SPM	Stack	600 KVA

<b>(a) Stack number(s)</b>	<b>(b) Stack attached to</b>	<b>(c) Capacity</b>	<b>(d) Fuel Type</b>
2	D.G Set	125 KVA	HSD
<b>(e) Fuel quantiy (Kg/hr.)</b>	<b>(f) Material of construction</b>	<b>(g) Shape (round/rectangular)</b>	<b>(h) Height, m (above ground level)</b>

31.25	MS	Round	5
(i) Diameter/Size, in meters	(j) Gas quantity, Nm <sup>3</sup> /hr.	(k) Gas temperature °C	(l) Exit gas velocity, m/sec.
0.1	146.61	112	7.05
(m) Control equipment preceding the stack	(n) Nature of pollutants likely to present in stack gases such as Cl <sub>2</sub> , Nox, Sox TPM etc.	(o) Emissions control system provided	(p) In case of D.G. Set power generation capacity in KVA
Acoustic Hood	SPM	Stack	125 KVA
<b>(a) Stack number(s)</b>	<b>(b) Stack attached to</b>	<b>(c) Capacity</b>	<b>(d) Fuel Type</b>
3	D.G Set	400 KVA	HSD
<b>(e) Fuel quantiy (Kg/hr.)</b>	<b>(f) Material of construction</b>	<b>(g) Shape (round/rectangular)</b>	<b>(h) Height, m (above ground level)</b>
100	MS	Round	5
(i) Diameter/Size, in meters	(j) Gas quantity, Nm <sup>3</sup> /hr.	(k) Gas temperature °C	(l) Exit gas velocity, m/sec.
0.1	146.61	112	7.05
(m) Control equipment preceding the stack	(n) Nature of pollutants likely to present in stack gases such as Cl <sub>2</sub> , Nox, Sox TPM etc.	(o) Emissions control system provided	(p) In case of D.G. Set power generation capacity in KVA
Acoustic Hood	SPM	Stack	400 KVA
<b>(a) Stack number(s)</b>	<b>(b) Stack attached to</b>	<b>(c) Capacity</b>	<b>(d) Fuel Type</b>
4	D.G Set	500 KVA	HSD
<b>(e) Fuel quantiy (Kg/hr.)</b>	<b>(f) Material of construction</b>	<b>(g) Shape (round/rectangular)</b>	<b>(h) Height, m (above ground level)</b>
125	MS	Round	5
(i) Diameter/Size, in meters	(j) Gas quantity, Nm <sup>3</sup> /hr.	(k) Gas temperature °C	(l) Exit gas velocity, m/sec.
0.1	146.61	112	7.05
(m) Control equipment preceding the stack	(n) Nature of pollutants likely to present in stack gases such as Cl <sub>2</sub> , Nox, Sox TPM etc.	(o) Emissions control system provided	(p) In case of D.G. Set power generation capacity in KVA
Acoustic Hood	SPM	Stack	500 KVA

27. (B) Whether any release of odoriferous compounds such as Mercaptans, Phorate etc. Are coming out from any storages or process house.

NA

28. Do you have adequate facility for collection of samples of emissions in the form of port holes, platform, ladder\etc. As per Central Board Publication "Emission regulations Part-III" ( December, 1985 )

<b>Port hole</b>	Yes	<b>Details</b>	Port hole will be Provided.
<b>Platform</b>	Yes	<b>Details</b>	Platform will be Provided.
<b>Ladder</b>	Yes	<b>Details</b>	Ladder will be Provided.

29. Quality of treated flue gas emissions and process emissions. Quantity of treated flue gas emissions and process emissions.

<b>Sr. No</b>	<b>Stack attached to</b>	<b>Parameter</b>	<b>Concentration mg/Nm<sup>3</sup></b>	<b>flow (Nm<sup>3</sup>/hr)</b>
1	DG Sets (4 Nos.)	SPM	54.59	146

(Specify concentration of criteria pollutants and industry/process-specific pollutants stack-wise. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/Central Government in the Ministry of Environment & Forests. For proposed unit furnish expected characteristics of the emissions..

NA

#### **Part - D: Hazardous Waste aspect**

30. Information about Hazardous Waste Management as defined in Hazardous Waste (Management & Handling ) Rules, 1989 as amended in Jan.,2000. Type/Category of Waste as per

##### **Waste (Annually) Schedule I**

<b>Cat No</b>	<b>Type</b>	<b>Qty</b>	<b>UOM</b>
NA		0	--NA--
<b>Max</b>	<b>Method of collection</b>	<b>Method of reception</b>	<b>Method of storage</b>
	NA	NA	NA
<b>Method of transport</b>	<b>Method of treatment</b>	<b>Method of disposal</b>	
NA	NA	NA	

##### **Waste (Annually) Schedule II**

31. Details about use of hazardous waste

<b>Name of hazardous waste/Spent chemical</b>	<b>Quantity used/month</b>	<b>Party from whom purchased</b>	<b>Party to whom sold</b>
NA	0	NA	NA

32.

a. Details about technical capability and equipments available with the applicant to handle the Hazardous Waste

NA

b. Characteristics of hazardous waste(s) Specify concentration of relevant pollutants. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/Central Govt. in the ministry of Environment & Forests. For proposed units furnish expected characteristics

NA

33.

**Copy of format of manifest/record Keeping practiced by the applicant.**

0

34.

**Details of self-monitoring (source and environment system)**

0

35.

**Are you using any imported hazardous waste. If yes, give details.**

0

36.

**Copy of actual user Registration/certificate obtained from State Pollution Control Board/Ministry of Environment & Forests, Government of India, for use of hazardous waste.**

0

37.

**Present treatment of hazardous waste, if any (give type and capacity of treatment units)**

0

38. Quantity of hazardous waste disposal

**(i) Within factory**

0

**(ii) Outside the factory (specify location and enclose copies of agreement.)**

0

**(iii) Through sale (enclosed documentary proof and copies of agreement.)**

0

**(iv) Outside state/Union Territory, if yes particulars of (1 & 3 ) above.**

0

**(v) Other (Specify)**

0

---

**Part - E: Additional information**

39.

**a. Do you have any proposals to upgrade the present system for treatment and disposal of effluent/emissions and/or hazardous waste.**

NA

**b. If yes, give the details with time- schedule for the implementation and approximate expenditure to be incurred on it.**

NA

40.

**Capital and recurring (O & M) expenditure on various aspect of environment protection such as effluent, emission, hazardous waste, solid waste, tree- plantation, monitoring, data acquisition etc. (give figures separately for items implemented/to be implemented).**

NA

41.

**To which of the pollution control equipment, separate meters for recording consumption of electric energy are installed ?**

Control Panel

42.

**Which of the pollution control items are connected to D.G. Set (captive power source) to ensure their running in the event of normal power failure**

Stack/Chimney

43. Nature, quantity and method of disposal of non- hazardous solid waste generated separately from the process of manufacture and waste treatment.  
(Give details of area/capacity available in applicant's land)

Type	Quantity	UOM	Treatment	Disposal	Other Details
E-waste	2745	Kg/Annum	Segregate	will handover to local authorised vendor	Recycle
Bio degradable waste	1058	Kg/Day	OWC	Will be used as manure for Landscape	Recycle

Non-Biodegradable Waste	1587	Kg/Day	Segregate	will be handed over to local Authorized authority	Reuse
STP Sludge	25	Kg/Day	Drying	Will be used as manure for Landscape	Recycle

---

**44. Hazardous Chemicals - Give details of Chemicals and quantities handled and Stored.**

**(i) Is the unit a Major Accident Hazard unit as per Mfg.Storage Import Hazardous Chemicals Rules ?**

0

**(ii) Is the unit an isolated storage as defined under the MSIHC Rules ?**

0

**(iii) Indicate status of compliance of Rules 5,7,10,11,12,13 and 18 of the MSIHC Rules.**

0

**(iv) Has approval of site been obtained from the concerned authority?**

0

**(v) Has the unit prepared an off-site Emergency Plan? Is it updated ?**

0

**(vi) Has information on imports of Chemicals been provided to the concerned authority?**

0

**(vii) Does the unit possess a policy under the PLI Act?**

0

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**45. Brief details of tree plantation/green belt development within applicant's premises ( in hectars )**

<b>Open Space Availability</b>	<b>Plantation Done On</b>	<b>Number of Trees Planted</b>
4307.87 Square meter	0 Square meter(0 %)	0

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**46.**

**Information of schemes for waste Minimization, resource recovery and recycling - implemented and to be implemented, separately.**

STP,OWC,RWH,Solar will be provided for waste minimisation resource recovery and recycling.

---

**47.**

**(a) The applicant shall indicate whether Industry comes under Public Hearing, if so, the relevant documents such as EIA, EMP, Risk Analysis etc. shall be submitted, if so, the relevant documents enclosed shall be indicated accordingly.**

0

**(b) Any other additional information that the applicants desires to give**

NA

**(c) Whether Environmental Statement submitted ? If submitted, give date of submission.**

NA

---

**48.**

**I/We further declare that the information furnished above is correct to the best of my/our knowledge.**

---

**49.**

**I/We hereby submit that in case of any change from what is stated in this application in respect of raw materials, products, process of manufacture and treatment and/or disposal of effluent, emission, hazardous wastes etc. In quality and quantity; a fresh application for Consent/Authorization shall be made and until the grant of fresh Consent/Authorization no change shall be made.**

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**50.**

**I/We undertake to furnish any other information within one month of its being called by the Board**

**Yours faithfully**

**Signature :**

**Name : Mr. Umesh Kumar**

**Designation : Legal and Liasoning Head**

**Additional Information**

**Air Pollution**

<b>Sr No.</b>	<b>Air Pollution Source</b>	<b>Pollutants</b>	<b>APCS Provided</b>	<b>Remark</b>
1	DG Sets (4 Nos.)	SPM, Noise	Stack, Accoustic hood	APCS & Sampling facilities will be provided.

<b>Separate EM Provided</b>	No	<b>Other Emission Sources</b>	NA
<b>Measures Proposed</b>	Stack, Accoustic hood	<b>Foul Smell Coming Out</b>	No
<b>Air Sampling Facility Details</b>	Port holes, Ladders, Platforms will be provided		

**D.G. Set Details**

<b>Description</b>	<b>Capacity(KVA)</b>	<b>Remarks</b>
DG Set No. 1	125	Stack, Accoustic hood & Port holes, Ladders, Platforms will be provided
DG Set No. 2	600	Stack, Accoustic hood & Port holes, Ladders, Platforms will be provided
DG Set No. 3	500	Stack, Accoustic hood & Port holes, Ladders, Platforms will be provided
DG Set No. 4	400	Stack, Accoustic hood & Port holes, Ladders, Platforms will be provided

**Hazardous Waste Generation**

<b>Hazardous Waste</b>	<b>Quantity</b>	<b>UOM</b>	<b>Treatment</b>	<b>Disposal</b>	<b>Other Details</b>

**CHWTSDF Details**

<b>Member of CHWTSDF</b>	<b>CHWTSDF Name</b>	<b>Remarks</b>

**Cess Details**

<b>Cess Applicable</b>	<b>Cess Paid</b>	<b>If Yes, UpTo</b>
No	No	Jan 1 1900 12:00:00:000AM

**Legal Actions**

<b>Legal Action Taken</b>	<b>Legal Record Of Company</b>	<b>Legal Action Details</b>	<b>Remarks</b>
No			

<b>Bank Guarantee Applicable:</b>	No
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# **SITE PHOTOGRAPHS**



LABOUR HUTMENTS





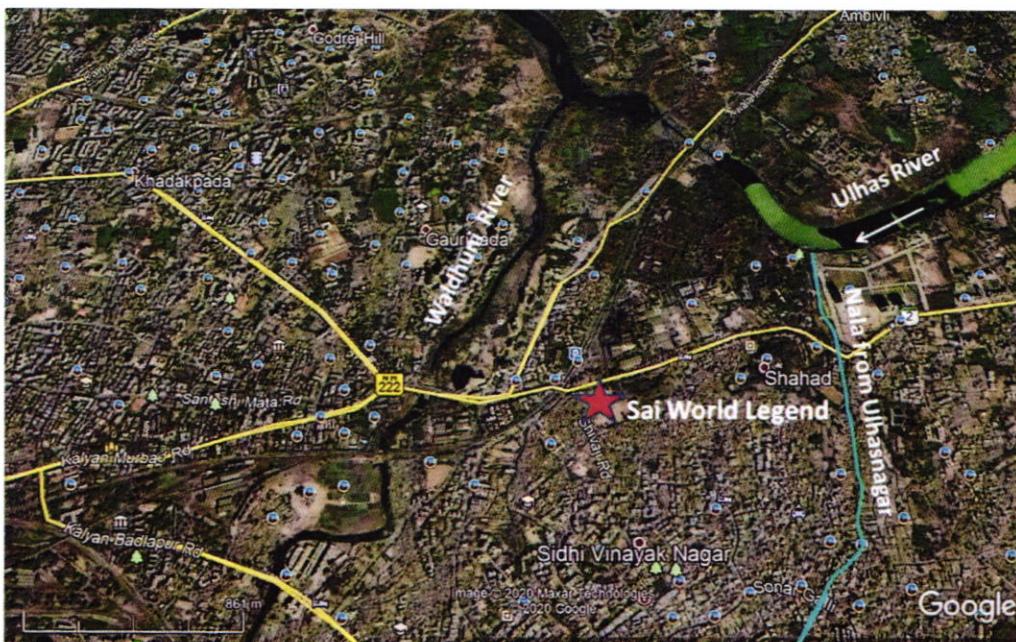




# **ANNEXURES**

**HYDROLOGY REPORT  
FOR  
NALA ON SITE OF PROPOSED PROJECT  
“SAI WORLD LEGEND”  
OF M/S. CHARIOT PROPERTIES LLP**

**AT  
PLOT No.6(P), 7 & 8  
CTS No.1618, 1619, 1625 & 1626A  
ULHASNAGAR**



**BY  
SHRI D. N. DESHMUKH  
CHIEF RESEARCH OFFICER (RETD.)  
CW&PRS, PUNE**

**FEBRUARY 2020**

**Hydrology Report for**  
**Nala on site of Proposed project "Sai World Legend" at Plot no.**  
**6(P), 7 & 8, CTS No. 1618, 1619, 1625 & 1626 A, Ulhasnagar -1. by**  
**M/s. Chariot Properties LLP**

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**INDEX**

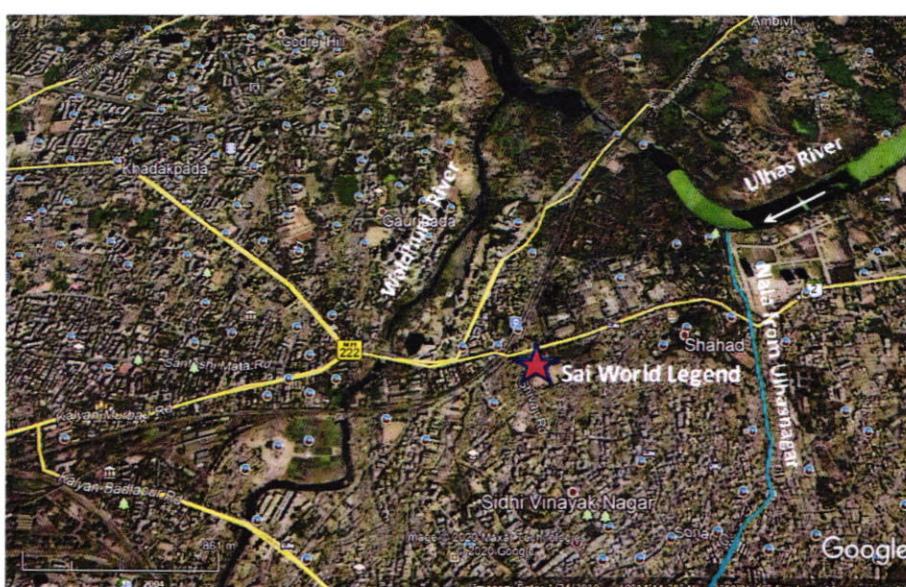
<b>Sr. No.</b>	<b>Title</b>
1.	Preamble
2.	Brief description of Ulhas river catchment
3.	Hydrology of Ulhas river catchment and Nala catchment
4.	Assessment of carrying capacity of proposed diversion nala
5.	Conclusions

**Hydrology Report for**  
**Nala on site of Proposed project "Sai World Legend" at Plot no.**  
**6(P), 7 & 8, CTS No. 1618, 1619, 1625 & 1626 A, Ulhasnagar -1. by**  
**M/s. Chariot Properties LLP**

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## 1.0 PREAMBLE

The proposed “**Sai World Legend**” project is a residential cum commercial building located on south of Kalyan Murbad road on Plot no. 6(P), 7 & 8, CTS No1618, 1619, 1625 & 1626 A, Ulhasnagar. Fig.1 shows that the project location falls between two major Nalas namely Waldhuni nala on west and Ulhasnagar nala on east and after crossing Kalyan Murbad road both join Ulhas river flowing on north.



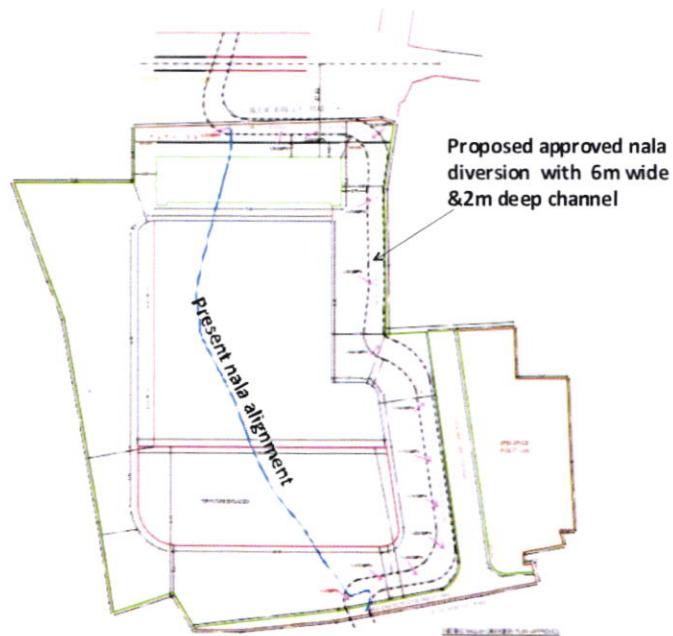
**Fig 1 Sai World Project location on Kalyan Murbad road**

The plot of Sai World Legend project is surrounded by slums / hutments / unauthorised constructions on south and west. The natural slope of the surrounding area of about 1 km<sup>2</sup> on east, south and west of the is towards the plot of proposed project. As a result the waste water from surrounding slums is directed through the drains to the project area and after flowing through plot water flow join drain on Kalyan Murbad road which ultimately joins Ulhas river. It is most likely that during monsoon rain water from surrounding slums might be flowing through plot area. The sewage and waste water coming from slums presently flows through middle portion of project area through 2 to 3m wide irregular shape drain. In order to facilitate development on plot permission for appropriate diversion of waste water drain was

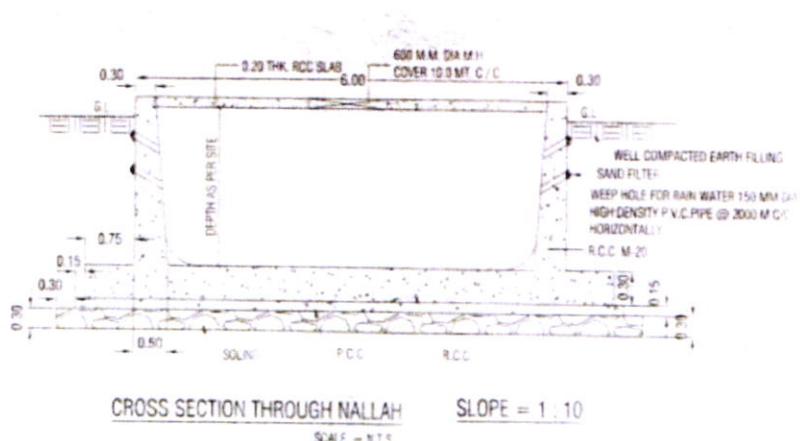
requested by project proponent to Ulhasnagar Municipal Corporation(UMC). Accordingly UMC approved nala diversion in May 2019 with following conditions.

- Entry and exit locations of nala in plot area to be kept unchanged.
- Appropriate arrangements for diverted nala cleaning be provided including manholes at regular interval.

Fig.2 shows alignment of existing drain and proposed diversion. A rectangular concrete channel 6m wide x average 2 m deep with average bed slope of 1/375 has been proposed as seen in fig 3.



**Fig 2 – Present nala alignment and proposed diversion**



**Fig 3 - Proposed section of diversion channel of Nala**

As per minutes of 117 th meeting of SEAC-2 held on 17 October 2019 , SEAC desired PP to submit the hydrology study of the project site & entire catchment of Nala & storm water drain calculation. Accordingly these studies are carried out and presented in this report.

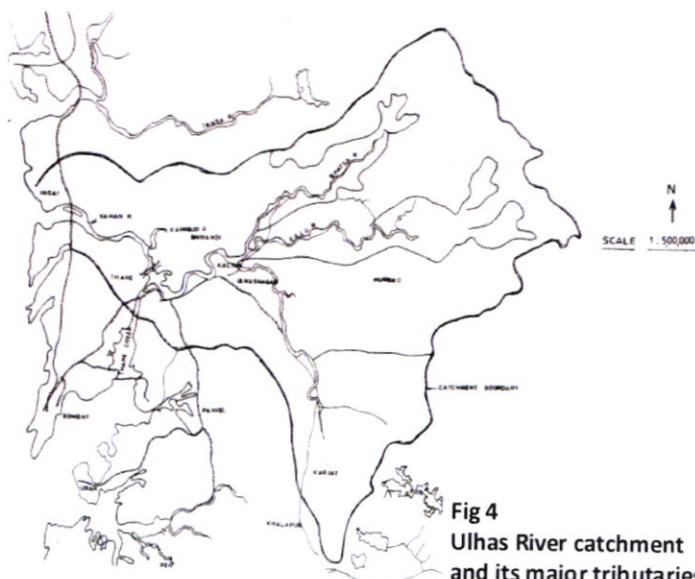
These studies are based on analysis of available hydrological data for Ulhas river catchment in CWPRS/CWC and MERI report, 50 year,100 year rainfall isopluvial maps of IMD /CWC and probable maximum precipitation charts of IITM..The guide lines in flood estimation report of CWC/ IMD for west coast region 5(a) and 5(b) - (Konkan and Malbar coast) were followed in estimating hourly distribution of rainfall of different return period.

## 2.0 BRIEF DESCRIPTION OF ULHAS RIVER CATCHMENT

Since the project site and its catchment area is a part of entire Ulhas river catchment brief review of its hydrology is presented.

### 2.1 Ulhas River Catchment

The Ulhas river originates at an altitude of 831m near Thakwadi village in western ghat on border of Pune and Thane districts. The total length of ulhas river is about 112 km. From origin Ulhas river flows towards north for a distance of about 40 km up to confluence with Barvi river a major tributary. Then it flows towards north-west for about 17 kms till confluence with Kalu river. From Kalu confluence it flows towards west for a distance of 55 km before merging in Arabian sea near Vasai. The total catchment area of Ulhas creek till outfall in Arabian sea is 4900 sq.km. Fig 4 shows Catchment boundary of Ulhas basin along with main tributaries. The average slope of river up to confluence with Kalu is 1 in 675 ( 1.486 m in 1 km).



The main tributaries of the Ulhas river are Kalu, Bhatsa, Barvi, Murbadi, Shilar, Poshir and Ambarnath and Waldhuni nala. The individual catchment areas of these river basins at different locations are as below.

Sr no	River basin	Catchment Area (km <sup>2</sup> )
1	Bhatsa river up to confluence with Kalu river	978
2	Kalu river up to confluence with Bhatsa	1100
3	Ulhas river up to confluence with Kalu river	1457
4	Free catchment downstream of Kalu confluence	1365
	<b>Total Catchment</b>	<b>4900</b>

Along Ulhas river there is a weir at Jambul (downstream of Barvi confluence) and at Mohane about 1.5 km upstream of confluence with Kalu. There are two major storage reservoirs on tributaries, one on Bhatsa river and another on Barvi river. The catchment area comprises hilly region on west and south and lower foot hills in coastal terrain. Hill top and hill slopes are devoid of vegetation except some shrubs and scattered trees. Soil is mostly laterite on hills and clayey and black in low lying areas. The average annual rainfall in the catchment varies from about 5200 mm at Matheran, 3300 mm at Karjat in upper reach to about 2600 mm at Shahapur and Murbad in middle reach and about 2400 at Thane and Kalyan in lower reach. The 50 and 100 year return period 24 hour rainfall in the catchment is 400 mm and 480 mm respectively as per IMD/CWC reports. On 26 July 2005 very high rainfall close to or more than probable Maximum Precipitation (PMP) of 700 mm were reported in Ulhas river and Panvel creek catchments.

## 2.2 Sai World Project site and its catchment



Fig- 5 Sai World Legend project location and approximate Boundary of catchment of nala passing through site

Fig 1 and Fig 5 show location and boundary of plot of Sai World Legend project. The net area of plot is about 2.66 Ha and it is spread Plot no. 6(P), 7 & 8, CTS No. 1618, 1619, 1625 & 1626 A, Ulhasnagar -1. Project area is bound by Kalyan Murbad road on north, vacant plots on East and slum area on south and west. The minimum distance of Ulhas river left bank from the northern boundary of plot of Project is about 1200 m. The Waldhuni river flows at distance of 700 m on west of project site and Ulhasnagar nala flows at about 500 m on east of the project. Study of ground levels from Google earth image indicate that plot levels are about 15m which are nearly at par with observed flood level of 15.54 m at Mohane weir (NRC weir) during unprecedented flood on 26 July 2005 and fairly above flood level 11.66 m for flood corresponding to 100 year rainfall of 480 mm. There appears to be existence of low level ridge separating small catchment of about  $0.9 \text{ km}^2$  from catchments of Waldhuni river and Ulhasnagar nala as indicated in fig 5. Since actual survey of this area is not feasible due to surrounding slums, ground confirmation was not possible. However, as per topo-sheet number 47E 4/8 no stream is seen flowing through area as could be seen from fig 6 (probably due to very small catchment).



**Fig.6 - Sai World Legend project location on Toposheet**

Fig.6 shows contours of 20 m, 40 m and 60 m on southeast of project area. Taking clue from Google map attempt was made to draw possible ridge line of small catchment of nala on project site on topo-sheet as shown in fig 6. The area of catchment is  $0.9 \text{ km}^2$ . In absence of any ground survey data this area of the catchment was adopted for hydrological studies. .

### **3.0 HYDROLOGY OF ULHAS RIVER CATCHMENT AND NALA CATCHMENT**

#### **3.1 Historic heavy rainfall events in and around Ulhas river catchment**

The average annual rainfall in Ulhas basin varies between 5000 mm near upstream edge of the catchment boundary in western ghat to about 2500 mm at Ulhas and Kalu confluence. Earlier to 26 July 2005, highest one day rainfall recorded in and around Ulhas basin are given in Table below.

Sr no	Station( district)	Heaviest 1 Day rainfall (mm)	Date
1	Matheran (Colaba)	657.3	24 - 07 -1921
2	Karjat ( Colaba )	605.0	18 -07 - 1958
3	Murbad (Thane )	386.6	23- 07 -1921
4	Kalyan ( Thane)	458.5	17 – 07 -1885
5	Bhiwandi ( Thane )	469.1	17 – 07 -1885
6	Vada (Thane)	459.2	19 – 06 -1953
7	Dahanu (Thane)	481.0	01 – 09 -1958
8	Panvel (Raigad)	458.5	17 – 07 -1885
9	Alibag ( Raigad )	407.7	23 - 09 -1949
10	Pen (Raigad )	500.0	01 09 -1973

Above table shows that most of these storms occurred in month of July. Except Matheran and Murbad rest of values are in the range 450 mm to 500 mm and these are close to 100 year return period rainfall of 480mm indicated in isopluvial maps in Flood Estimation Report by IMD/CWC( fig 7). The highest rainfall at Matheran is close to the Probable Maximum Precipitation ( PMP) as per the PMP Atlas published by Indian Institute of Tropical Meteorology ( IITM), Pune ( Fig 8). During 26 July 2005 rain storm very high rainfall close to or higher than PMP of 700 mm estimated by IITM were reported at Santacruz (944 mm), Matheran (843 mm), Karjat (688 mm), Kalyan (619mm ), Bhivandi (748 mm),Thane (736 mm), Panvel (760 mm), Kharghar (764 mm), Nerul (732 mm), Vashi (618 mm) and Belapur (998 mm). Large urban areas in and around Thane, Kalyan, Ulhasnagar, were inundated.

#### **3.2 Unprecedented rain storm of 26 July 2005**

On 26 July 2005 heavy rainstorm spread on large area from Thane-Santacruz- to Vashi, Kharghar and Panvel lashed this area. During this storm very high rainfall close to or higher than PMP of 700 mm estimated by IITM were reported at

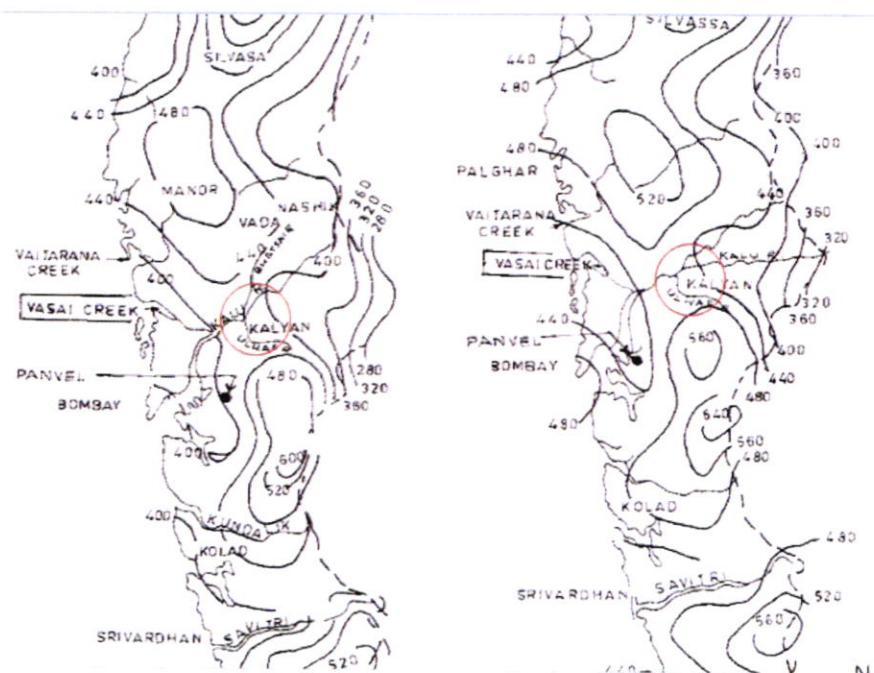
Santacruz (944 mm), Matheran (843 mm), Karjat (688 mm), Kalyan (619mm ), Bhivandi (748 mm),and Thane (736 mm). Large urban areas in and around Thane, Kalyan, Ulhasnagar, were inundated due to high floods in Ulhas and Kalu rivers. On the same day rivers in north Mumbai namely Dahisar,Poisar and Oshiwara also experienced high floods due to record rainfall at Santacruz and inundated suburbs of Noth Mumbai.

### 3.3 Hydrlogy of catchment of Nala in " Sai World Legend" project in Ulhasnagar

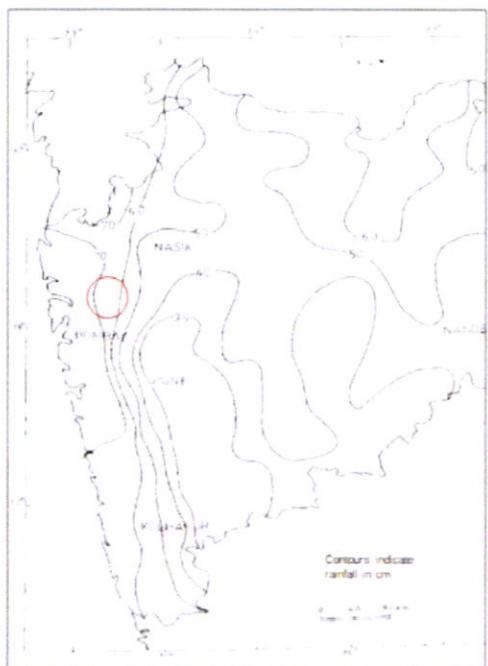
The small catchment of nala is a part of Ulhas river basin basin area around Ulhasnagar. No long term hourly records of rainfall in and around small catchment are available. Hence Isopluvial maps from flood estimation reports of CWC ( Fig 8 ) and PMP map of Maharashtra published by IITM ( Fig 8) are of great help for estimating 24 hour rainfall for different return periods and PMP for 24 hour storm. Thus, taking help of above references following data was extracted for nala catchment.

- 25 year return period 24 hour rainfall – 360 mm
- 50 year return period 24 hour rainfall – 420 mm
- 25 year return period 24 hour rainfall – 460 mm
- 24 hour PMP -700 mm

These data were used for estimating peak flood discharges of Nala at entry of project area.



**Fig 7 - Isopluvial map of IMD showing 50 year and 100 year return period 24 hour rainfall (mm) for Konkan region** (Ref : Flood estimation report for west coast region CWC Publication of March 1992 (Konkan and Malabar Coast subzones 5a and 5b)



**Probable maximum precipitation in Konkan region around Mumbai**

[Ref : Plate No.11 of PMP atlas of IITM Pune (198)]

### 3.4 Estimation of peak flood discharges of nala in project area

For estimation of flood hydrographs and peak flood discharge in a river at a given location following parameters are required to studied.

- Catchment area of river basin up to given location
- Time of concentration
- 24 hour rainfall in catchment area for different return periods
- Storm duration and Hourly distribution of rainfall
- Runoff coefficient which depends on nature and land use pattern of catchment

As per Rational formula peak flood discharge ( $Q_p$ ) =  $0.278 \times C \times I \times A$

Where,

A –Catchment area in square km, I – peak rainfall intensity, C- Runoff coefficient

The 24 hour rainfall of different return periods were taken from Flood estimation report for Konkan and Malabar coast by CWC & IMD as mentioned in para 3.3. Estimated time of concentration for nala at site was about 1 hour or less. Storm durations of 3, 6, 12 and 24 hours were considered. The hourly distribution of rainfall was carried out as per guidelines of IMD in Flood estimation report. Following Table gives 24 hour rainfall for different storm durations and peak rainfall intensity around Ulhasnagar.

**TABLE- Rainfall for different storm durations and maximum intensities (mm/hour) in Ulhas river catchment around Ulhasnagar**

Return Period (Years)	24 hour rainfall (mm)	3 hour storm r		6 hour storm		12 hour storm		24 hour storm	
		rainfall	Max Intensity	rainfall	Max Intensity	Rainfall	Max Intensity	Rainfall	Max Intensity
25	360	174.6	118.7	220	99	280.8	67.2	360	36
50	420	203.7	138	256.2	115	327.6	78.6	420	42
100	460	223.1	151.6	280.6	126	358.8	86.1	460	46
SPF/PMP	700					546	131	700	70
26 July 2005	760							760	80 to 100 mm

It may be noted that in this region of the project area normally storms are of durations of 6 to 12 hours. Even during unprecedented storm of 26 July 2005 maximum intensities of 80 to 110 mm/hour were reported in Navi Mumbai area and about 134 mm/hour at OOT Powai. Intensities for 6 hour storms being higher can be adopted for computing peak flood discharges in streams/nalas. Accordingly from above table intensities 115 mm/hour and 126 mm/hour have been adopted for estimating peak flood discharge in nala in project area under consideration.

### **3.5 Peak Flood discharge for Nala at Sai World Legend.**

Following data was assumed for estimating peak flood discharge of Nala by adopting Rational formula as mentioned above.

- Catchment Area - 0.9 km<sup>2</sup>
- Runoff coefficient - 0.90 considering that entire area is occupied by slums.
- Intensities for 50 and 100 year return period rainfall (6 hour storm) 115 mm/hour and 126 mm/hour

Adopting these data estimated peak flood discharges were 25.9 m<sup>3</sup>/s and 28.4 m<sup>3</sup>/s for 50 and 100 year return period rainfall respectively.

## **4.0 ASSESSMENT OF DISCHARGE CARRYING CAPACITY OF PROPOSED DIVERSION CHANNEL**

The details of proposed diversion channel are given in para 1. These are summarised below.

- Clear width of rectangular concrete drain – 5.40 m

- Average depth – 2.0 m
- Average bed slope - 1/375
- Mannings roughness coefficient - 0.022
- Wetted perimeter – 9.40 m
- Cross section area – 10.8 m<sup>2</sup>

Using these data and assuming uniform flow conditions , channel velocity estimated for flow depth of 2 m was 2.60 m/s. Considering sectional flow area of 10.8 m<sup>2</sup> , the discharge carrying capacity works out to 28.1 m<sup>3</sup>/s. Thus, the proposed diversion channel capacity is well in excess of estimated 50 year peak flood discharge and at par with 100 year peak flood discharge. This analysis concludes that proposed diversion channel has adequate capacity to cater for 50 and 100 flood discharge without causing any flooding in project area as well as surrounding upstream area.

## 5.0 CONCLUSIONS

- i) 25, 50 and 100 year return period rainfall in the project area of Sai World Legend will be 360 mm, 420 mm and 460 mm respectively.
- ii) Highest intensities of rainfall for 6 hour storm will be 99 mm / hour, 115 mm / hour and 126 mm / hour for rainfall of 25, 50 and 100 year return period respectively.
- iii) Estimated peak flood discharges for 50 and 100 year return period will be 25.9 m<sup>3</sup>/s and 28.4 m<sup>3</sup>/s respectively.
- iv) Estimated carrying capacity of proposed diversion concrete channel of clear width 5.4 m and average depth 2.0 m has carrying capacity of 28.1 m<sup>3</sup>/s which is in excess of 50 year flood and almost at par with 100 year flood. Hence proposed diversion channel dimensions are adequate.
- v) The storm water falling on developed land of the project area can also be disposed into the diversion channel by appropriate drains as the project area was considered in the total catchment for estimating the peak flood discharge.



### ANNEXURE III – FIRE NOC

 <p style="text-align: center;"><b>ULHASNAGAR MUNICIPAL CORPORATION</b> उल्हासनगर महानगरपालिका अधिनियमन विभाग * अधिनियमन विभाग उल्हासनगर महाराष्ट्र दृष्ट्यांक : २१३०१३१ / २१३०१३२ / २१३०१३३ EXT.-२२६ NO.UMC/FIRE/69/2021 टेक्स्ट कोड : 41202100000719 DATE : 18/02/2021.</p>	<p>To, Prime Consultants, Netaji Chowk, Ulhasnagar - 5</p> <p>Sub.: Fire Dept. proposal NOC for the proposed Ground +1<sup>st</sup> (parking/Comm.) + 2<sup>nd</sup> (Podium/ (Parking/Comm.)-36 floors, High Rise 02 Residential building having two wings, On land bearing plot no. 6 (P) and 7 &amp; 8, sheet no 92, 93, 94, CTS No 1618, 1619(A) 1625, 1626(A), at Tal – Ulhasnagar - 1 Thane (Dist).</p> <p>Ref. 1: three sets of Blue print drawing submitted M/s Prime consultant. 2. Fire services fees, received, Rs. 18,142,136/- Book no. 203 vide receipt No.20246 Dated:18/2/2021</p> <p>3. As per UDPCR Notification dated 1/2/2020</p> <p>Dear Sir, M/s. Prime Consultant, is the project consultant and had submitted the proposal to construct the two High Rise Residential Building consisting B 1 + B 2 + Ground +P1 +P2 (Parking) 2<sup>nd</sup> (Podium/Parking) + 34 floors, High Rise 02 Residential building Proposed by M/s Paradise Lifestyle Pvt. Ltd. through Director Mr. Amit.M.Bhatija project name as Sai world Legend to be constructed On land bearing Plot No. 6 (P) 7 &amp; 8. Sheet No. 92,93 &amp; 94 CTS No 1618,1619(A)1625, 1626 (A) at village Ulhasnagar, tal-Ulhasnagar Thane (dist).</p> <p><b>DETAILS OF STRUCTURE</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>DETAILS</th> <th>DETAILS</th> </tr> </thead> <tbody> <tr> <td>Staircase</td> <td>02 Staircase For Commercial Building From Ground To Second Floor</td> <td>02 Common &amp; 02 Fire Staircase For Each Wing (Bldg-01 &amp; 02)</td> </tr> <tr> <td>Lift</td> <td>Total 08 Lift Provided For Bldg-01 &amp; 02, in Which 04 Quality As Fire Lift.</td> <td>01 Ramp From Ground And First To 2<sup>nd</sup> Floor Podium</td> </tr> <tr> <td>Ramps</td> <td>Building 01 &amp; 02</td> <td>Ground+2 (Podium/Parking)+36 Floors (Bldg-01 &amp; 02)</td> </tr> <tr> <td>Wing</td> <td>123.20 Meter From Ground To Terrace Level</td> <td>Height</td> </tr> </tbody> </table> <p><b>FLOOR WISE DETAILS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Floor</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>Ground</td> <td>One Detached Commercial Building Of G+2 Floor Having 19 Commercial Units, Stilt Car &amp; Scooter Parking For Residential Units.</td> </tr> <tr> <td>1<sup>st</sup> Floor</td> <td>37 Commercial Unit, Club House, Car &amp; Scooter Parking For Residential Units.</td> </tr> <tr> <td>2<sup>nd</sup> Floor</td> <td>37 Commercial Unit On 2<sup>nd</sup> Floor, Podium/Parking, Art Room, Card Room, Jutition Room, Club House Amenity Space, For Residential Units.</td> </tr> <tr> <td>3<sup>rd</sup> To 36<sup>th</sup> Floor</td> <td>Residential Unit Proposed Refuge Are in 6,11,16,21,26,31 &amp; 36 floor Is Accepted Subject To The Access Of Aerial Ladders Case From Ground To Refuge Areas</td> </tr> </tbody> </table>	NAME	DETAILS	DETAILS	Staircase	02 Staircase For Commercial Building From Ground To Second Floor	02 Common & 02 Fire Staircase For Each Wing (Bldg-01 & 02)	Lift	Total 08 Lift Provided For Bldg-01 & 02, in Which 04 Quality As Fire Lift.	01 Ramp From Ground And First To 2 <sup>nd</sup> Floor Podium	Ramps	Building 01 & 02	Ground+2 (Podium/Parking)+36 Floors (Bldg-01 & 02)	Wing	123.20 Meter From Ground To Terrace Level	Height	Floor	Details	Ground	One Detached Commercial Building Of G+2 Floor Having 19 Commercial Units, Stilt Car & Scooter Parking For Residential Units.	1 <sup>st</sup> Floor	37 Commercial Unit, Club House, Car & Scooter Parking For Residential Units.	2 <sup>nd</sup> Floor	37 Commercial Unit On 2 <sup>nd</sup> Floor, Podium/Parking, Art Room, Card Room, Jutition Room, Club House Amenity Space, For Residential Units.	3 <sup>rd</sup> To 36 <sup>th</sup> Floor	Residential Unit Proposed Refuge Are in 6,11,16,21,26,31 & 36 floor Is Accepted Subject To The Access Of Aerial Ladders Case From Ground To Refuge Areas
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## ANNEXURE IV

