



TAL/MOEF/21-22/02



Date:07.12.21

Jt. Director

Ministry of Environment and Forests

Regional Office (WCZ), Ground Floor

East Wing, New secretariat Building,

Civil Lines, Nagpur-440001

Tel.No.0712-2531318

Sub: Half Yearly report for the expansion of pesticide unit of Hikal Ltd.-Taloja. (Jun.2021 to Dec.2021)

Ref: Environment Clearance letter: J 11011/63/2007/IAII(I) Govt. of India New Delhi 28<sup>th</sup> August 2007

Dear Sir,

With reference to the above, we hereby submit the half yearly report for the perusal and records.

We hope you will find the same in order.

Thanking You,

Yours Faithfully

For Hikal Limited -Taloja

Authorised Signatory

Encl:

- 1)Ambient Air analysis reports
- 2)Stack Emission monitoring reports
- 3)Work place monitoring reports
- 4)Effluent analysis
- 5)Summary of Yearly Annual Medical Check-up -2021(Form 7)

**Hikal Ltd.**

Factory : T - 21, MIDC. Ind. Area, Taloja - 410 208, Dist Raigad, Maharashtra, India. Tel. : +91-22-3099 0100

Admin. Office : Great Eastern Chambers, 6th Floor, Sector 11, CBD Belapur, Navi Mumbai - 400 614, India. Tel. : +91-22-6277 0299, +91-22-6866 0300

Regd. Office : 717, Maker Chamber - 5, Nariman Point, Mumbai - 400 021, India. Tel. : +91 22-6277 0477, +91-22-6277 0500.

www.hikal.com info@hikal.com CIN : L24200MH1988PTC048028

**COMPLIANCE OF ENVIRONMENT CLEARANCE CONDITIONS**  
**For Expansion of HIKAL LTD., MIDC Taloja, Maharashtra**  
**Accorded by Ministry of Environment and Forests ( I.A. Division )**  
**F. No. J – 11011/63/ 2007- IA II ( I ), Government of India New Delhi,**  
**Dt. 28<sup>th</sup> August 2007**

**A. SPECIFIC CONDITIONS**

i.) Dust collectors and venturi scrubbers shall be provided to control particulate emissions.	<p>We have provided dust collectors in the packing system for the control of particulate emissions.</p> <p>Ventury scrubbers are provided for scrubbing of gas. For other process emissions and storage tank vents packed bed scrubber provided.</p> <p>Cleaning of filters is being carried out on regular basis.</p>
ii.) Fugitive emissions in the work zone environment shall be periodically monitored for specific pollutants like solvents, VOC, HCl, SO <sub>2</sub> etc. with instruments of proper range. The flue gas emissions shall confirm to the standards prescribed by the MPCB.	<p>Work place monitoring is carried out on monthly basis for Acetone, DMS and DMF a Reports are well within limit, Copies are attached.</p> <p>Flue gas monitoring is carried out by MoEF approved laboratory. Reports are well within limit, Copies are attached.</p>
iii) Total water requirement from MIDC supply, effluent generation shall not exceed 1200 m <sup>3</sup> /day as per the permission accorded by the MIDC. The waste water generation shall not exceed 823 m <sup>3</sup> /day and treated for primary, secondary and tertiary treatment. Treated effluent shall be sent to common effluent treatment plant (CETP) for further treatment. The quality of the treated effluent shall confirm to the standards prescribed by the MPCB/EPA Rules. Toxicity Factor – 4 (TF – 4) test shall be carried out as per the latest CPCB guidelines.	<p>The water requirement from MIDC supply and Effluent generated is not exceeded than the permission granted.</p> <p>We have full-fledged Effluent Treatment Plant comprising of Primary, Secondary and Tertiary treatment and final effluent is sent to CETP for further treatment and disposal.</p> <p>Ongoing</p>
iv) The solid waste shall be segregated according to its calorific content and stored separately, for treatment and disposal. ETP sludge, evaporation salts, spent carbon etc. shall be incinerated in the common incineration facility installed at TSDF at Taloja, Maharashtra and no incinerator should be installed at the project site. Used oil and batteries shall be sold to authorized recyclers.	<p>Solid wastes are segregated and stored in isolated dedicated storage area.</p> <p>We are the member of Mumbai Waste Management Limited- Taloja (CHWTSDF) and presently all segregated hazardous waste is treated and disposed off scientifically at their facility. Incinerable Waste sent to CHWTSDF at Taloja only.</p> <p>Used oil and batteries are being sold to authorized recyclers as per the PCB guidelines.</p>

## B. GENERAL CONDITIONS:

i.) The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB), and the State Government	We are complying with all the MPCB and state Government norms and in future also will comply in the same way.
ii) No further expansion or modifications in the plant should be carried out without prior approval of Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures reqd., if any.	No Expansion or modification will be carried out without prior approval of Ministry of Environment and Forests.  We have not modified or expanded plant after above mentioned clearance.
iii) The gaseous emissions (SO <sub>2</sub> , NOx, HC, HCl and Cl <sub>2</sub> ) and particulate matter from various process units shall confirm to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Gaseous emissions like SO <sub>2</sub> , NOx, and Particulate matter are monitored on quarterly basis from MoEF approved laboratory.  We are complying all the standards prescribed by the concerned authorities from time to time. Utmost care will be taken in future also in order to avoid any deviations.

<p>iv) The process emissions (SO<sub>2</sub> and HCl) shall be scrubbed by caustic or wet scrubber from all the stacks. Vents from scrubbers and condensers shall be periodically monitored and maintained as per the best practicable technology. The VOC emissions generated due to use of organic chemicals from various reactors shall be controlled by installing chilled water and chilled brine condenser system to condensate the organic vapors to recycle and reuse in the process.</p>	<p>All process vents, storage tank vents are connected to the caustic scrubber (General scrubber).</p> <p>While organic vapors are condensed and recycled to the process by using chilled brine &amp; chilled water condensers.</p>
<p>v) Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the MPCB. Regular monitoring shall be carried out for relevant parameters.</p>	<p>Quality of influent and effluent is analyzed regularly in our full fledged QC laboratory for the effective treatment...</p>
<p>vi) As per Charter on Corporate Responsibility on Environment Protection the bio-assay test shall be replaced by Toxicity Factor test method developed by CPCB.</p>	<p>Toxicity Factor test is being introduced as per CPCB.</p>
<p>vii) All the solvent recovery condensers should be cooled with low temperature brine to reduce solvent loss to the environment. Spent solvent shall be recovered as far as possible &amp; recovery shall not be less than 95%. All venting equipments shall have vapour recovery system. Reactors shall be provided with mechanical seal to handle the odorous chemicals. Actions shall be taken to reduce the air emissions in the work zone environment as far as possible.</p>	<p>A solvent recovery system is provided to reduce the solvent loss to less than 5 per cent and all venting equipment's are connected to the vapor recovery system.</p> <p>Reactors &amp; pumps are provided with mechanical seals to reduce the odorous chemicals.</p> <p>Chemicals are handled in closed system to minimize exposure to person as well as release to the environment.</p>
<p>viii) Green belt of adequate width and density should be developed in 33% of the total project area to mitigate the effect of fugitive emissions all round the plant in consultation with the local DFO as per the CPCB guidelines.</p>	<p>Green belt in and around the complex is more than 33%, further development of green belt in surrounding area was also done out side the premises parallel to fencing wall on the west side. HIKAL has maintained green belt even all plants are surrounded by well maintained greenery. Approx. 10,000 small and big plants are planted.</p>

ix) The company shall undertake water harvesting measures to recharge the ground water as well as reduce consumption of fresh water.	Water conservation measures are taken and effort is being made to save water to maintain natural resources.
x) As proposed Rs.100 lakhs and Rs.33 lakhs earmarked towards the capital cost and recurring cost for the environmental pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. An implementation schedule for all conditions stipulated herein shall be submitted to the Regional office of the Ministry at Bhopal. The funds shall not be diverted for any other purposes.	Total 1538 lacs are spend over capital investment on environmental pollution control measures .(MEE,ATFD,MBR,Diffuse Aerator, Lamella clarifier etc.)
xi) The company shall undertake eco development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan shall be submitted to the MPCB within three months of receipt of this letter of approval.	Green belt was developed out side the fencing wall. Tree plantation program implemented in every monsoon and almost all open space is covered with greenery.
xii) The project authorities must strictly comply with the rules and regulations under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000. Prior approval of Chief Inspector of Factories, Chief Inspector of Explosives and Fire Safety Inspectorate etc. must be obtained.	We have always been complying with the rules and regulations of Manufacture, Storage, and Import of Hazardous Chemicals Rules 2000.  Approvals from authorities such as Inspector of Factories, Chief Inspector of Explosives, and Fire Safety Inspectorate are obtained.  The details against same also submitted to MPCB.
xiii) The project authorities must strictly comply with the rules and regulations with regards to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2000. Authorization from the MPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.	We have obtained requisite consent & authorization from MPCB and complying with the H.W. (management, handling & trans-boundary movement) rules 2016. Form- 4, 5 and 10 etc. are maintained /submitted regularly.  We are member of MWML- Taloja and all hazardous waste is being disposed off scientifically.

xiv) Multiple safety systems shall be provided in reaction vessel handling flammable solvent or in which pressurized operations are carried out and hazard analysis of all operations shall be carried out. All the safety measures mentioned in the Factory Act shall be strictly adopted. Safety audit of the plant by a qualified safety engineer shall be carried out at least once in two years.	HAZOP and hazard analysis studies were carried out. Safety measures mentioned in the Factory act are implemented strictly and safety audit are carried out once in two years by a qualified safety engineer as per the statutory requirements & Reports are submitted.
xv) The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise level shall conform to the standards prescribed under the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Presently workplace monitoring are carried out for noise level in and along the periphery of the plant. Presently noise levels are within prescribed limits.
xvi) Occupational health surveillance program shall be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. First aid facilities in the Occupational Health Care Centre shall be strengthened and medical records of each employee should be maintained separately.	Quarterly medical examination is being carried out for persons handling hazardous chemicals apart from annual medical examination of all the employees of the plant.  Company has provided Occupational health center with qualified medical officer and male nurses for 24 hrs. Medical records are maintained and trends are monitored for better health of the employees.
xvii) A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out Environment Management and monitoring functions.	Already such Environment Management Cell is operative at the site and the same is upgraded time to time.
xviii) The project proponent shall also comply with all the environmental protection measures and safeguards recommendation in the EIA/EMP report	Complied

xix) The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhopal / MPCB / CPCB. A six monthly compliance status report should be submitted to monitoring agencies.	<p>Six monthly compliance reports is submitted to the Ministry's Regional Office at Bhopal at regular intervals. Last report submitted in the month of Jun.21</p> <p>This practice will be followed in future also.</p>
xx) The project proponent should advertise in at least two local news papers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Maharashtra Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . The advertisement shall be made within 7 days from the date and issue of the clearance letter and copy of the same shall be forwarded to Ministry's Regional Office at Bhopal.	<p>This has already been complied with. The environmental clearance was advertised in two local newspapers viz. Free Press (English) and Nav Shakti (Marathi) language, on 3<sup>rd</sup> September 2007.</p>
xxi) The project Authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project.	<p>Financial closure done on 31<sup>st</sup> Dec 2009.</p>

## **Hikal Limited - Taloja**

### **Annexure – I**

#### **Details of Capital expenditure towards Environment Protection Facility :**

<b>Sr. No.</b>	<b>Description</b>	<b>Amount in Lacs</b>
1	General Purpose Scrubber and Equipments	8.50
2	H2S Scrubber System and Equipments	38.00
3	Pumps (FHS and ETP)	4.50
4	ETP/FHS piping / instrument / Elec. Cost	7.50
5	General / H2S Scrubber piping / Electrical / instrumentation cost	6.50
6	Civil Cost (Chemsewer Pit and other)	20.00
7	MEE	500
8	ATFD	200
9	Lamella Clarifier	30
10	Jet Aerator	30
11	Diffuse aerator	50
12	MBR	643
	<b>Total</b>	<b>1538</b>

AIR-F-002

**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

<b>Report No.</b>	PAPL/ A-88/06-21	<b>Report Date</b>	14/06/2021
<b>Work Order No.</b>	--		
<b>Name of Customer</b>	M/s. HIKAL LTD.		
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.		
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	<b>Valid up to</b>	16/10/2024
<b>Type of sampling</b>	AAQM	24 Hrs. <input checked="" type="checkbox"/>	WAQM 8Hr <input type="checkbox"/> 24 Hr <input type="checkbox"/>
<b>Instrument used</b>	RDS	✓	FDS <input checked="" type="checkbox"/>
	ID No.	AIR-I-054	ID No. AIR-I-011
<b>Calibration Due Date</b>	16/03/2022	<b>Calibration Due Date</b>	01/09/2021
<b>Date of Sampling</b>	08/06/2021	<b>Sample Ref. No.</b>	311/A-88/06-21
<b>Location of sampling</b>	Near Gate No. 2		
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.		
<b>POLLUTION PARAMETERS</b>			
<b>Parameter</b>	<b>Result</b>	<b>Limit</b>	<b>Unit</b>
Particulate Matter (PM <sub>2.5</sub> )	35.1	60	µg/m <sup>3</sup>
Particulate Matter (PM <sub>10</sub> )	71.5	100	µg/m <sup>3</sup>
Sulphur Dioxide (SO <sub>2</sub> )	19.8	80	µg/m <sup>3</sup>
Nitrogen Dioxide(NO <sub>2</sub> )	32.3	80	µg/m <sup>3</sup>
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>
*Carbon monoxide (CO)	1.0	04	mg/m <sup>3</sup>
*Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>
<b>Sampling conditions</b>	Rain	Yes	Construction site near by
	Win	No	Vehicular Activity
			No
			No

\* Not covered under NABL scope

**Remark:-**

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This test report refers only to the sample submitted for the testing.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.

AIR-F-002

**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

<b>Report No.</b>	PAPL/A-89/06-21	<b>Report Date</b>	14/06/2021																
<b>Work Order No.</b>	--																		
<b>Name of Customer</b>	M/s. HIKAL LTD.																		
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.																		
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	<b>Valid up to</b>		16/10/2024															
<b>Type of sampling</b>	AAQM	24 Hrs.	✓	WAQM	8Hr	--	24 Hr	--											
<b>Instrument used</b>	RDS	✓	FDS		✓														
	ID No.	AIR-I-054		ID No.	AIR-I-011														
<b>Calibration Due Date</b>	16/03/2022	<b>Calibration Due Date</b>		01/09/2021															
<b>Date of Sampling</b>	09/06/2021	<b>Sample Ref. No.</b>		312/A-89/06-21															
<b>Location of sampling</b>	Near Pilot Plant																		
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.																		
<b>POLLUTION PARAMETERS</b>																			
<b>Parameter</b>	<b>Result</b>	<b>Limit</b>	<b>Unit</b>	<b>Method</b>															
Particulate Matter (PM <sub>2.5</sub> )	32.1	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)															
Particulate Matter (PM <sub>10</sub> )	65.3	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017															
Sulphur Dioxide (SO <sub>2</sub> )	19.3	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017															
Nitrogen Dioxide(NO <sub>2</sub> )	33.8	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017															
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)															
*Carbon monoxide (CO)	1.1	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009															
*Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006															

<b>Sampling conditions</b>	Rain	Yes	Construction site near by			No
	Wind	No	Vehicular Activity			No

\* Not covered under NABL scope

**Remark:-**

Note: This test report may not be produced in part or full, without the permission of this laboratory.  
This test report refers only to the sample submitted for the testing.

  
Analyst



For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-002

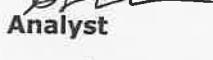
**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

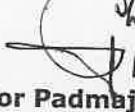
<b>Report No.</b>	PAPL/A-138/06-21	<b>Report Date</b>	19/06/2021													
<b>Work Order No.</b>	--															
<b>Name of Customer</b>	M/s. HIKAL LTD.															
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.															
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019		<b>Valid up to</b>	16/10/2024												
<b>Type of sampling</b>	AAQM	24 Hrs.	✓	WAQM	8Hr	--	24 Hr	--								
<b>Instrument used</b>	RDS	✓	FDS			✓										
	ID No.	AIR-I-054		ID No.	AIR-I-011											
<b>Calibration Due Date</b>	16/03/2022		Calibration Due Date			01/09/2021										
<b>Date of Sampling</b>	14/06/2021		<b>Sample Ref. No.</b>	457/A-138/06-21												
<b>Location of sampling</b>	Near ETP															
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.															
<b>POLLUTION PARAMETERS</b>																
Parameter	Result	Limit	Unit	Method												
Particulate Matter (PM <sub>2.5</sub> )	31.9	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)												
Particulate Matter (PM <sub>10</sub> )	63.3	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017												
Sulphur Dioxide (SO <sub>2</sub> )	18.2	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017												
Nitrogen Dioxide(NO <sub>2</sub> )	31.9	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017												
Ammonia(NH <sub>3</sub> )	14.1	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)												
*Carbon monoxide (CO)	1.0	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009												
*Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006												
<b>Sampling conditions</b>	Rain	Yes	Construction site near by				No									
	Wind	No	Vehicular Activity				No									

\* Not covered under NABL scope

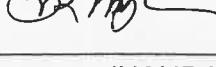
**Remark:--**

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Analyst



For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-002

**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

<b>Report No.</b>	PAPL/A-87/06-21	<b>Report Date</b>	14/06/2021														
<b>Work Order No.</b>	--																
<b>Name of Customer</b>	M/s. HIKAL LTD.																
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.																
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	<b>Valid up to</b>	16/10/2024														
<b>Type of sampling</b>	AAQM	24 Hrs.	✓	WAQM	8Hr	--	24 Hr	--									
<b>Instrument used</b>	RDS	✓	FDS		✓												
	ID No.	AIR-I-054	ID No.		AIR-I-011												
<b>Calibration Due Date</b>	16/03/2022		Calibration Due Date		01/09/2021												
<b>Date of Sampling</b>	07/06/2021		<b>Sample Ref. No.</b>	310/A-87/06-21													
<b>Location of sampling</b>	Near Main Gate																
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.																
<b>POLLUTION PARAMETERS</b>																	
<b>Parameter</b>	<b>Result</b>	<b>Limit</b>	<b>Unit</b>	<b>Method</b>													
Particulate Matter (PM <sub>2.5</sub> )	42.1	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)													
Particulate Matter (PM <sub>10</sub> )	83.2	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017													
Sulphur Dioxide (SO <sub>2</sub> )	21.3	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017													
Nitrogen Dioxide(NO <sub>2</sub> )	36.9	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017													
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)													
*Carbon monoxide (CO)	1.2	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009													
*Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006													

<b>Sampling conditions</b>	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	Yes

\* Not covered under NABL scope

**Remark:-**

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**Analyst**



For Padmaja Aerobiologicals Pvt. Ltd.





# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 16/10/2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31/12/2021

**AIR-F-002**

**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

<b>Report No.</b>	PAPL/A-180/07-21		<b>Report Date</b>	27/07/2021									
<b>Work Order No.</b>	--												
<b>Name of Customer</b>	M/s. HIKAL LTD.												
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.												
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019		<b>Valid up to</b>	16/10/2024									
<b>Type of sampling</b>	<b>AAQM</b>	24 Hrs.	✓	<b>WAQM</b>	8Hr	--	24 Hr						
<b>Instrument used</b>	RDS	✓		FDS		✓							
	ID No.	AIR-I-044		ID No.	AIR-I-009								
<b>Calibration Due Date</b>		16/03/2022		Calibration Due Date		11/02/2022							
<b>Date of Sampling</b>	21/07/2021		<b>Sample Ref. No.</b>	707/A-180/07-21									
<b>Location of sampling</b>	Near Main Gate												
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.												
<b>POLLUTION PARAMETERS</b>													
Parameter	Result	Limit	Unit	Method									
Particulate Matter (PM <sub>2.5</sub> )	20.2	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)									
Particulate Matter (PM <sub>10</sub> )	45.3	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017									
Sulphur Dioxide (SO <sub>2</sub> )	16.2	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017									
Nitrogen Dioxide(NO <sub>2</sub> )	27.1	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017									
Ammonia(NH <sub>3</sub> )	< 10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)									
Carbon monoxide (CO)	0.8	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009									
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006									

<b>Sampling conditions</b>	Rain	Yes	<b>Construction site near by</b>	No
	Wind	No	Vehicular Activity	Yes

**Remark:--**

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Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 19.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

**AIR-F-002**

**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

<b>Report No.</b>	PAPL/A-222/07-21	<b>Report Date</b>	31/07/2021	
<b>Work Order No.</b>	--			
<b>Name of Customer</b>	M/s. HIKAL LTD.			
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.			
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	<b>Valid up to</b>	16/10/2024	
<b>Type of sampling</b>	<b>AAQM</b>	24 Hrs. ✓	WAQM 8Hr -- 24 Hr --	
	RDS	✓	FDS ✓	
<b>Instrument used</b>	ID No.	AIR-I-054	ID No. AIR-I-016	
	Calibration Due Date	16/03/2022	Calibration Due Date 01/09/2021	
<b>Date of Sampling</b>	26/07/2021	<b>Sample Ref. No.</b>	852/A-222/07-21	
<b>Location of sampling</b>	Near ETP			
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.			
<b>POLLUTION PARAMETERS</b>				
<b>Parameter</b>	<b>Result</b>	<b>Limit</b>	<b>Unit</b>	<b>Method</b>
Particulate Matter (PM <sub>2.5</sub> )	28.3	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM <sub>10</sub> )	60.2	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017
Sulphur Dioxide (SO <sub>2</sub> )	18.6	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017
Nitrogen Dioxide(NO <sub>2</sub> )	29.7	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017
Ammonia(NH <sub>3</sub> )	16.3	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)
Carbon monoxide (CO)	0.9	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006

<b>Sampling conditions</b>	Rain	Moderate	Construction site near by	No
	Wind	No	Vehicular Activity	No

**Remark:--**

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Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 16/10/2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5086 Valid upto 31/12/2021

AIR-F-002

**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

<b>Report No.</b>	PAPL/A-237/07-21		<b>Report Date</b>	31/07/2021			
<b>Work Order No.</b>	--						
<b>Name of Customer</b>	M/s. HIKAL LTD.						
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.						
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	<b>Valid up to</b>		16/10/2024			
<b>Type of sampling</b>	AAQM	24 Hrs.	✓	WAQM	8Hr	--	24 Hr
<b>Instrument used</b>	RDS	✓		FDS	✓		
	ID No.	AIR-I-054		ID No.	AIR-I-016		
<b>Calibration Due Date</b>	16/03/2022		<b>Calibration Due Date</b>		01/09/2021		
<b>Date of Sampling</b>	27/07/2021		<b>Sample Ref. No.</b>	888/A-237/07-21			
<b>Location of sampling</b>	Near CS2 Tank						
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.						
<b>POLLUTION PARAMETERS</b>							
<b>Parameter</b>	<b>Result</b>	<b>Limit</b>	<b>Unit</b>	<b>Method</b>			
Particulate Matter (PM <sub>2.5</sub> )	26.4	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)			
Particulate Matter (PM <sub>10</sub> )	55.8	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006, Reaffirmed-2017			
Sulphur Dioxide (SO <sub>2</sub> )	16.7	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001, Reaffirmed-2017			
Nitrogen Dioxide(NO <sub>2</sub> )	27.4	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006, Reaffirmed-2017			
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)			
Carbon monoxide (CO)	0.8	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009			
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006			
<b>Sampling conditions</b>	Rain Wind	Moderate No	<b>Construction site near by</b> Vehicular Activity			No No	

**Remark:-**

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*[Signature]*  
Analyst

*[Signature]*  
For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-002

**TEST REPORT**  
**AMBIENT AIR QUALITY MONITORING**

Report No.	PAPL/A-270/08-21	Report Date	07/09/2021	
Work Order No.	--			
Name of Customer	M/s. HIKAL LTD.			
Address	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.			
MoEF Certificate No.	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	Valid up to	16/10/2024	
Type of sampling	AAQM	24 Hrs.	✓ WAQM	8Hr -- 24 Hr --
	RDS	✓	FDS	✓
Instrument used	ID No.	AIR-I-029	ID No.	AIR-I-016
	Calibration Due Date	31/08/2021	Calibration Due Date	01/09/2021
Date of Sampling	21/08/2021	Sample Ref. No.	840/A-270/08-21	
Location of sampling	Near Main Gate			
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.			
<b>POLLUTION PARAMETERS</b>				
Parameter	Result	Limit	Unit	Method
Particulate Matter (PM <sub>2.5</sub> )	23.6	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM <sub>10</sub> )	47.4	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017
Sulphur Dioxide (SO <sub>2</sub> )	19.1	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017
Nitrogen Dioxide(NO <sub>2</sub> )	29.3	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)
Carbon monoxide (CO)	0.9	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009
Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006
Sampling conditions	Rain Wind	Moderate No	Construction site near by Vehicular Activity	No No

**Remark:--**

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Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

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Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-002

## TEST REPORT AMBIENT AIR QUALITY MONITORING

Report No.	PAPL/A-271/08-21		Report Date	07/09/2021			
Work Order No.	--						
Name of Customer	M/s. HIKAL LTD.						
Address	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.						
MoEF Certificate No.	S.O 3744 (E) Sr.No.49 Dated 17/10/2019		Valid up to	16/10/2024			
Type of sampling	AAQM	24 Hrs.	✓	WAQM	8Hr	--	24 Hr
Instrument used	RDS	✓		FDS		✓	
	ID No.	AIR-I-054		ID No.	AIR-I-055		
Calibration Due Date	16/03/2022		Calibration Due Date	16/03/2022			
Date of Sampling	21/08/2021		Sample Ref. No.	841/A-271/08-21			
Location of sampling	Near Gate No. 2						
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.						
POLLUTION PARAMETERS							
Parameter	Result	Limit	Unit	Method			
Particulate Matter (PM <sub>2.5</sub> )	26.2	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)			
Particulate Matter (PM <sub>10</sub> )	53.7	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006, Reaffirmed -2017			
Sulphur Dioxide (SO <sub>2</sub> )	19.0	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001, Reaffirmed -2017			
Nitrogen Dioxide(NO <sub>2</sub> )	30.6	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006, Reaffirmed -2017			
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012, NAAQS Volume-I)			
Carbon monoxide (CO)	0.9	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999, Reaffirmed -2009			
Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006			
Sampling conditions	Rain	Moderate	Construction site near by				No
	Win	No	Vehicular Activity				No

**Remark:--**

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Analyst

For Padmaja Aerobiologicals Pvt. Ltd.

P.G. Shukla



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

**AIR-F-002**

**TEST REPORT  
AMBIENT AIR QUALITY MONITORING**

Report No.	PAPL/A-272/08-21	Report Date	07/09/2021														
Work Order No.	--																
Name of Customer	M/s. HIKAL LTD.																
Address	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.																
MoEF Certificate No.	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	Valid up to	16/10/2024														
Type of sampling	<b>AAQM</b>	24 Hrs.	✓	<b>WAQM</b>	8Hr	--	24 Hr	--									
Instrument used	RDS	✓	FDS		✓												
	ID No.	AIR-I-029	ID No.		AIR-I-016												
Calibration Due Date	31/08/2021	Calibration Due Date		01/09/2021													
Date of Sampling	23/08/2021	Sample Ref. No.		842/A-272/08-21													
Location of sampling	Near ETP																
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.																
<b>POLLUTION PARAMETERS</b>																	
Parameter	Result	Limit	Unit	Method													
Particulate Matter (PM <sub>2.5</sub> )	30.7	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)													
Particulate Matter (PM <sub>10</sub> )	61.3	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017													
Sulphur Dioxide (SO <sub>2</sub> )	20.1	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017													
Nitrogen Dioxide(NO <sub>2</sub> )	30.8	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017													
Ammonia(NH <sub>3</sub> )	18.7	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)													
Carbon monoxide (CO)	1.0	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009													
Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006													

Sampling conditions	Rain	Moderate	Construction site near by	No
	Wind	No	Vehicular Activity	No

**Remark:--**

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Analyst



For Padmaja Aerobiologicals Pvt. Ltd.

'NANDAN' Plot No - 36/3/4, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel : 022-2783 2532 / 2783 2817 Telefax : 022-2783 2818 E-Mail : paplturbhe@yahoo.co.in Web: www.padmajalab.com



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-002

**TEST REPORT**  
**AMBIENT AIR QUALITY MONITORING**

<b>Report No.</b>	PAPL/A-273/08-21	<b>Report Date</b>	07/09/2021	
<b>Work Order No.</b>	--			
<b>Name of Customer</b>	M/s. HIKAL LTD.			
<b>Address</b>	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.			
<b>MoEF Certificate No.</b>	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	<b>Valid up to</b>	16/10/2024	
<b>Type of sampling</b>	AAQM	24 Hrs. <input checked="" type="checkbox"/>	WAQM 8Hr <input type="checkbox"/> 24 Hr <input type="checkbox"/>	
<b>Instrument used</b>	RDS	<input checked="" type="checkbox"/>	FDS <input checked="" type="checkbox"/>	
ID No.	AIR-I-054	ID No.	AIR-I-055	
Calibration Due Date	16/03/2022	Calibration Due Date	16/03/2022	
<b>Date of Sampling</b>	23/08/2021	<b>Sample Ref. No.</b>	843/A-273/08-21	
<b>Location of sampling</b>	Near Pilot Plant			
<b>Sample Collected By</b>	Padmaja Aerobiologicals Pvt. Ltd.			
<b>POLLUTION PARAMETERS</b>				
Parameter	Result	Limit	Unit	Method
Particulate Matter (PM <sub>2.5</sub> )	31.8	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM <sub>10</sub> )	61.2	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017
Sulphur Dioxide (SO <sub>2</sub> )	20.4	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017
Nitrogen Dioxide(NO <sub>2</sub> )	29.7	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017
Ammonia(NH <sub>3</sub> )	<10	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)
Carbon monoxide (CO)	1.2	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006

<b>Sampling conditions</b>	Rain	Moderate	Construction site near by	No
	Wind	No	Vehicular Activity	No

**Remark:--**

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Analyst



For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory  
Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-002

**TEST REPORT**  
**AMBIENT AIR QUALITY MONITORING**

Report No.	PAPL/A-274/08-21		Report Date	07/09/2021			
Work Order No.	--						
Name of Customer	M/s. HIKAL LTD.						
Address	Plot No. T-21, MIDC Industrial Area, Taloja, Dist: Raigad, Maharashtra - 410 208.						
MoEF Certificate No.	S.O 3744 (E) Sr.No.49 Dated 17/10/2019	Valid up to	16/10/2024				
Type of sampling	AAQM	24 Hrs.	✓	WAQM	8Hr	--	24 Hr
Instrument used	RDS	✓	FDS			✓	
	ID No.	AIR-I-028	ID No.			AIR-I-013	
Date of Sampling	Calibration Due Date		31/08/2021	Sample Ref. No.	844/A-274/08-21		
Location of sampling	Near CS2 Tank						
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.						
<b>POLLUTION PARAMETERS</b>							
Parameter	Result	Limit	Unit	Method			
Particulate Matter (PM <sub>2.5</sub> )	28.7	60	µg/m <sup>3</sup>	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)			
Particulate Matter (PM <sub>10</sub> )	57.3	100	µg/m <sup>3</sup>	IS 5182(Part-23):2006,Reaffirmed-2017			
Sulphur Dioxide (SO <sub>2</sub> )	18.2	80	µg/m <sup>3</sup>	IS 5182(Part-02):2001,Reaffirmed-2017			
Nitrogen Dioxide(NO <sub>2</sub> )	29.7	80	µg/m <sup>3</sup>	IS 5182(Part-06):2006,Reaffirmed-2017			
Ammonia(NH <sub>3</sub> )	<10.0	400	µg/m <sup>3</sup>	Indophenol Blue method 4.1 (CPCB guidelines 2012,NAAQS Volume-I)			
Carbon monoxide (CO)	1.0	04	mg/m <sup>3</sup>	IS 5182(Part-10):1999,Reaffirmed -2009			
Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.05	05	µg/m <sup>3</sup>	IS 5182(Part-11) :2006			
Sampling conditions	Rain Wind	Moderate No	Construction site near by Vehicular Activity				No No

**Remark:--**

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This test report refers only to the sample submitted for the testing.

For Padmaja Aerobiologicals Pvt. Ltd.

Analyst

AIR-F-005

### CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	863/A-233/07-21
Work Order No.	--
Report Date	30/07/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	27/07/2021

### PARTICULARS OF STACK

Stack Attached to	General Scubber MPP Plant
Stack Diameter (Meter)	0.25
Stack Height (Meter)	30.0
Stack Temperature (°C)	35
Stack Velocity of Flue Gases (m/s)	---
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	---
Type of Fuel	---

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Acetone Conc..	<0.12	750	mg/Nm <sup>3</sup>	NIOSH-1300
Toluene Conc.	<0.19	100	mg/Nm <sup>3</sup>	NIOSH-1501
Xylene Conc.	<0.22	100	mg/Nm <sup>3</sup>	NIOSH-1501

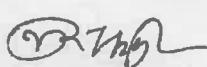
**Remark:--**

Instrument used: -Politech make Model PEM – SMK 10M, Sr. No. AIR-I-035

Calibration Due date: - 03/09/2021.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



'NANDAN' Plot No - 36/3/4, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel : 022-2783 2532 / 2783 2817 Telefax : 022-2783 2818 E-Mail : paplturbhe@yahoo.co.in Web: www.padmajalab.com



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC);

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5068 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	788/A-249/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/08/2021

### PARTICULARS OF STACK

Stack Attached to	Bag Filter (BLW-601)
Stack Diameter (Meter)	0.315
Stack Height (Meter)	22.0
Stack Temperature (°C)	48
Stack Velocity of Flue Gases (m/s)	10.1
Stack Volume of Flue Gases (Nm³/hr)	2626
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	54.6	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019

**Remark:-**

Instrument Used: – Polltech make Model PEM SMK-10M, Sr. No. AIR-I-035  
Calibration Due Date - 03/09/2021.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	789/A-250/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/08/2021

### PARTICULARS OF STACK

Stack Attached to	Bag Filter (BLW-602)
Stack Diameter (Meter)	0.25
Stack Height (Meter)	22.0
Stack Temperature (°C)	54
Stack Velocity of Flue Gases (m/s)	12.1
Stack Volume of Flue Gases (Nm³/hr)	1945
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	50.2	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019

**Remark:--**

Instrument Used: – Polltech make Model PEM SMK-10M, Sr. No. AIR-I-035

Calibration Due Date - 03/09/2021.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	790/A-251/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/08/2021

### PARTICULARS OF STACK

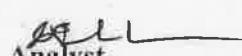
Stack Attached to	Bag Filter (BLW-603)
Stack Diameter (Meter)	0.25
Stack Height (Meter)	22.0
Stack Temperature (°C)	32
Stack Velocity of Flue Gases (m/s)	12.3
Stack Volume of Flue Gases (Nm³/hr)	2120
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	47	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019

**Remark:-**

Instrument Used: – Polltech make Model PEM SMK-10M, Sr. No. AIR-I-035  
Calibration Due Date - 03/09/2021.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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AIR-F-005

### CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	784/A-245/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	21/08/2021

### PARTICULARS OF STACK

Stack Attached to	Acid Scrubber (C-502)
Stack Diameter (Meter)	0.45
Stack Height (Meter)	25.0
Stack Temperature ( $^{\circ}\text{C}$ )	35
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases ( $\text{Nm}^3/\text{hr.}$ )	--
Type of Fuel	--

### POLLUTION PARAMETERS

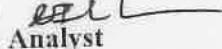
Parameter	Result	Limit	Unit	Method
$\text{NH}_3$ Conc.	N.D.	30	ppm	IS-11255 (Part 6) 1999 Reaffirmed 2009
$\text{H}_2\text{SO}_4$ Conc.	N.D.	NS	ppm	Analar

**Remark:-**

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Polltech make Model PEM – SMK 10M, Sr. No. AIR-I-035

Calibration Due date: - 03/09/2021.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	782/A-243/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	21/08/2021

### PARTICULARS OF STACK

Stack Attached to	Vent Sorb BLW Ph-II (BLW-501 & 502)
Stack Diameter (Meter)	0.1
Stack Height (Meter)	25.0
Stack Temperature (°C)	33
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Benzene Conc.	< 0.05	NS	ppm	NIOSH-1501

#### Remark:-

NS: - Not Specified.

Instrument Used: - Polltech make Model PEM – SMK 10M, Sr. No. AIR-I-035

Calibration Due date: - 03/09/2021.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



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AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	785/A-246/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	21/08/2021

### PARTICULARS OF STACK

Stack Attached to	Emergency Chlorine Scrubber (BLW - 870)
Stack Diameter (Meter)	0.85
Stack Height (Meter)	17.0
Stack Temperature (°C)	34
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
HCl Conc.	N.D.	20	mg/Nm <sup>3</sup>	Analar
Cl <sub>2</sub> Conc.	N.D.	05	ppm	IS 5182 (Part-19) 1982 Reaffirmed 2009

#### Remark:-

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Polltech make Model PEM - SMK 10M, Sr. No. AIR-I-035

Calibration Due date: - 03/09/2021.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



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AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	781/A-242/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	21/08/2021

### PARTICULARS OF STACK

Stack Attached to	Ventilation BLW Ph-1 (BLW 201)
Stack Diameter (Meter)	0.53
Stack Height (Meter)	27.0
Stack Temperature (°C)	32
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
CS <sub>2</sub> Conc.	N.D.	N.S.	ppm	IS 11255 (Part 4) 1985 Reaffirmed 2006
Organics Conc.	N.D.	N.S.	ppm	USEPA -0030 (GC)

#### Remark:-

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Politech make Model PEM - SMK 10M, Sr. No. AIR-I-035

Calibration Due date: - 03/09/2021.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



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AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	786/A-247/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/08/2021

### PARTICULARS OF STACK

Stack Attached to	Steam Boiler (B - 920 D)
Stack Diameter (Meter)	1.5
Stack Height (Meter)	42.0
Stack Temperature (°C)	152
Stack Velocity of Flue Gases (m/s)	9.6
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	42745
Type of Fuel	Briquette & F.O.

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	115.3	150.0	mg/Nm <sup>3</sup>	IS-11255 (Part 1) 1985 Reaffirmed 2019
SO <sub>2</sub> Conc.	118	2320	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2019

**Remark:--**

Instrument used: -Polltech make Model PEM – SMK 10M, Sr. No. AIR-I-035

Calibration Due date: - 03/09/2021.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	787/A-248/08-21
Work Order No.	--
Report Date	09/08/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/08/2021

### PARTICULARS OF STACK

Stack Attached to	D. G. Set
Stack Diameter (Meter)	0.1524
Stack Height (Meter)	6.0
Stack Temperature (°C)	182
Stack Velocity of Flue Gases (m/s)	15.4
Stack Volume of Flue Gases (Nm³/hr)	661
Type of Fuel	Diesel

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	60	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019
SO₂ Conc.	0.19	2320	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2019
NOx Conc.	30.3	NS	mg/Nm³	IS 11255 (Part 7) 2005 Reaffirmed-2012

**Remark:** --

NS: - Not Specified.

Instrument used: -Politech make Model PEM – SMK 10M, Sr. No. AIR-I-035  
Calibration Due date: - 03/09/2021.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	783/A-244/08-21
Work Order No.	--
Report Date	30/07/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	21/08/2021

### PARTICULARS OF STACK

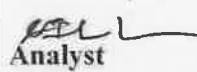
Stack Attached to	Ammonia Scrubber (C-1203)
Stack Diameter (Meter)	0.05
Stack Height (Meter)	20.0
Stack Temperature (°C)	40
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
NH <sub>3</sub> Conc.	2.4	30	ppm	IS-11255 (Part 6) 1999 Reaffirmed 2009

**Remark:-**

Instrument Used: – Polltech make Model PEM – SMK 10M, Sr. No. AIR-I-035  
Calibration Due date: - 03/09/2021.

  
Analyst



For Padmaja Aerobiologicals Pvt. Ltd.



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AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	791/A-252/08-21
Work Order No.	--
Report Date	08/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/08/2021

### PARTICULARS OF STACK

Stack Attached to	General Scrubber MPP Plant
Stack Diameter (Meter)	0.25
Stack Height (Meter)	30.0
Stack Temperature (°C)	35
Stack Velocity of Flue Gases (m/s)	---
Stack Volume of Flue Gases (Nm³/hr)	---
Type of Fuel	---

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Acetone Conc.	<0.12	750	mg/Nm³	NIOSH-1300
Toluene Conc.	<0.19	100	mg/Nm³	NIOSH-1501
Xylene Conc.	<0.22	100	mg/Nm³	NIOSH-1501

#### Remark:-

Instrument used: -Polltech make Model PEM – SMK 10M, Sr. No. AIR-I-035  
 Calibration Due date: - 03/09/2021.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



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AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	905A/A-285A/09-21
Work Order No.	--
Report Date	27/09/2021
Name of Industry	M/s. HIKAL LTD. -
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	20/09/2021

### PARTICULARS OF STACK

Stack Attached to	Bag Filter (BLW-601)
Stack Diameter (Meter)	0.315
Stack Height (Meter)	22.0
Stack Temperature (°C)	46
Stack Velocity of Flue Gases (m/s)	9.9
Stack Volume of Flue Gases (Nm³/hr)	2589
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	47.2	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019

Remark:-

Instrument Used: - Polltech make Model PEM SMK-10M, Sr. No. AIR-I-027  
Calibration Due Date - 01/09/2022.

*Zineb*  
Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



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CIN : U73100MH1995PTC082502

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AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	905B/A-285B/09-21
Work Order No.	--
Report Date	27/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	20/09/2021

### PARTICULARS OF STACK

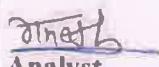
Stack Attached to	Bag Filter (BLW-602)
Stack Diameter (Meter)	0.25
Stack Height (Meter)	22.0
Stack Temperature (°C)	50
Stack Velocity of Flue Gases (m/s)	11.7
Stack Volume of Flue Gases (Nm³/hr)	1903
Type of Fuel	--

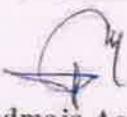
### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	44.9	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019

**Remark:-**

Instrument Used: – Polltech make Model PEM SMK-10M, Sr. No. AIR-I-027.  
Calibration Due Date - 01/09/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

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Gazette Notification No. S.O 3744(E) Valid upto : 18.10.2024

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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	905C/A-285C/09-21
Work Order No.	--
Report Date	27/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	20/09/2021

### PARTICULARS OF STACK

Stack Attached to	Bag Filter (BLW-603)
Stack Diameter (Meter)	0.25
Stack Height (Meter)	22.0
Stack Temperature (°C)	35
Stack Velocity of Flue Gases (m/s)	12.0
Stack Volume of Flue Gases (Nm³/hr)	2047
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	49.8	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019

**Remark:-**

Instrument Used: - Polltech make Model PEM SMK-10M, Sr. No. AIR-I-027  
Calibration Due Date - 01/09/2022.

Shri  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	905D/A-285D/09-21
Work Order No.	--
Report Date	27/09/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	20/09/2021

### PARTICULARS OF STACK

Stack Attached to	Acid Scrubber (C-502)
Stack Diameter (Meter)	0.45
Stack Height (Meter)	25.0
Stack Temperature (°C)	34
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr.)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
NH <sub>3</sub> Conc.	N.D.	30	ppm	IS-11255 (Part 6) 1999 Reaffirmed 2009
H <sub>2</sub> SO <sub>4</sub> Conc.	N.D.	NS	ppm	Analar

**Remark:-**

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Polltech make Model PEM. - SMK 10M, Sr. No. AIR-I-027

Calibration Due date: - 01/09/2022.

*[Signature]*

Analyst

*[Signature]*  
For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	905E/A-285E/09-21
Work Order No.	--
Report Date	27/09/2021
Name of Industry	M/s. HIKAL LTD. -
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	20/09/2021

### PARTICULARS OF STACK

Stack Attached to	Vent Sorb BLW Ph-II (BLW-501& 502)
Stack Diameter (Meter)	0.1
Stack Height (Meter)	25.0
Stack Temperature (°C)	32
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Benzene Conc.	< 0.05	NS	ppm	NIOSH-1501

Remark:-

NS: - Not Specified.

Instrument Used: - Polltech make Model PEM – SMK 10M, Sr. No. AIR-I-027

Calibration Due date: - 01/09/2022.

*[Signature]*  
Analyst

*[Signature]*  
For Padmaja Aerobiologicals Pvt. Ltd.

*[Signature]*

'NANDAN' Plot No - 36/3/4, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel : 022-2783 2532 / 2783 2817 Telefax : 022-2783 2818 E-Mail : papiturbhe@yahoo.co.in Web: www.padmajalab.com



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Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC);

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001 2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	905F/A-285F/09-21
Work Order No.	--
Report Date	27/09/2021
Name of Industry	M/s. HIKAL LTD. -
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	20/09/2021

### PARTICULARS OF STACK

Stack Attached to	Ammonia Scrubber (C-1203)
Stack Diameter (Meter)	0.05
Stack Height (Meter)	20.0
Stack Temperature (°C)	36
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
NH <sub>3</sub> Conc.	2.1	30	ppm	IS-11255 (Part 6) 1999 Reaffirmed 2009

**Remark:-**

Instrument used: -Polltech make Model PEM – SMK 10M, Sr. No. AIR-I-027  
Calibration Due date: - 01/09/2022.

Shrikant  
Analyst

For Padmaja Aerobiologicals Pvt. Ltd.

KL

'NANDAN' Plot No - 36/3/4, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel: 022-2783 2532 / 2783 2817 Telefax: 022-2783 2818 E-Mail: paplturbhe@yahoo.co.in Web: www.padmajalab.com



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ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092592

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1229/A-454/09-21
Work Order No.	--
Report Date	06/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	30/09/2021

### PARTICULARS OF STACK

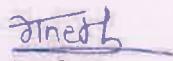
Stack Attached to	Steam Boiler (B – 920 D)
Stack Diameter (Meter)	1.5
Stack Height (Meter)	42.0
Stack Temperature (°C)	158
Stack Velocity of Flue Gases (m/s)	7.8
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	34234
Type of Fuel	Briquette

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	115.3	150.0	mg/Nm <sup>3</sup>	IS-11255 (Part 1) 1985 Reaffirmed 2019
SO <sub>2</sub> Conc.	N.D.	2320	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2019

**Remark:-**

Instrument used: -Polltech make Model PEM - SMK 10M, Sr. No. AIR-I-027  
Calibration Due date: - 01/09/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.C.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, OHSAS 18001:2007 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1230/A-455/09-21
Work Order No.	--
Report Date	06/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	30/09/2021

### PARTICULARS OF STACK

Stack Attached to	D. G. Set
Stack Diameter (Meter)	0.1524
Stack Height (Meter)	6.0
Stack Temperature (°C)	176
Stack Velocity of Flue Gases (m/s)	15.5
Stack Volume of Flue Gases (Nm³/hr)	923
Type of Fuel	Diesel

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	68	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019
SO₂ Conc.	0.5	2320	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2019
NOx Conc.	26.4	NS	mg/Nm³	IS 11255 (Part 7) 2005 Reaffirmed-2012

**Remark: --**

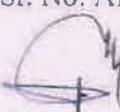
NS: - Not Specified.

Instrument used: - Polltech make Model PEM - SMK 10M, Sr. No. AIR-1-027

Calibration Due date: - 01/09/2022.

Atma

Analyst



For Padmaja Aerobiologicals Pvt. Ltd.

Atma

'NANDAN' Plot No - 36/3/4, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel: 022-2783 2532 / 2783 2817 Telefax: 022-2783 2818 E-Mail: paplturbhe@yahoo.co.in Web: www.padmajalab.com



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CIN: U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1231/A-456/09-21
Work Order No.	--
Report Date	06/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	30/09/2021

### PARTICULARS OF STACK

Stack Attached to	Emergency Chlorine Scrubber (BLW - 870)
Stack Diameter (Meter)	0.85
Stack Height (Meter)	17.0
Stack Temperature (°C)	33
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
HCl Conc.	N.D.	20	mg/Nm³	Analar
Cl₂ Conc.	N.D.	05	ppm	IS 5182 (Part-19) 1982 Reaffirmed 2009

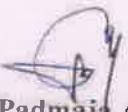
#### Remark:--

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Polltech make Model PEM - SMK 10M, Sr. No. AIR-I-027

Calibration Due date: - 01/09/2022.

J. Neel  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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Public Testing Laboratory

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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1232/A-457/09-21
Work Order No.	--
Report Date	06/10/2021
Name of Industry	M/s. HIKAL LTD. -
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	30/09/2021

### PARTICULARS OF STACK

Stack Attached to	Ventilation BLW Ph-1 (BLW 201)
Stack Diameter (Meter)	0.53
Stack Height (Meter)	27.0
Stack Temperature (°C)	31
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
CS <sub>2</sub> Conc.	N.D.	N.S.	ppm	IS 11255 (Part 4) 1985 Reaffirmed 2006
Organics Conc.	N.D.	N.S.	ppm	USEPA -0030 (GC)

Remark:--

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Polltech make Model PEM - SMK 10M, Sr. No. AIR-I-027

Calibration Due date: - 01/09/2022.

Analyst  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1233/A-458/09-21
Work Order No.	--
Report Date	06/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	30/09/2021

### PARTICULARS OF STACK

Stack Attached to	General Scubber MPP Plant
Stack Diameter (Meter)	0.25
Stack Height (Meter)	30.0
Stack Temperature (°C)	35
Stack Velocity of Flue Gases (m/s)	---
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	---
Type of Fuel	---

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Acetone Conc.	<0.12	750	mg/Nm <sup>3</sup>	NIOSH-1300
Toluene Conc.	<0.19	100	mg/Nm <sup>3</sup>	NIOSH-1501
Xylene Conc.	<0.22	100	mg/Nm <sup>3</sup>	NIOSH-1501

**Remark:-**

Instrument used: -Polltech make Model PEM - SMK 10M, Sr. No. AIR-I-027  
Calibration Due date: - 01/09/2022.

*[Signature]*  
Analyst

*[Signature]*  
For Padmaja Aerobiologicals Pvt. Ltd.

AIR-F-005

### CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1234/A-459/09-21
Work Order No.	--
Report Date	06/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	30/09/2021

### PARTICULARS OF STACK

Stack Attached to	Scrubber MPP
Stack Diameter (Meter)	0.1
Stack Height (Meter)	30.0
Stack Temperature (°C)	33
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	--
Type of Fuel	--

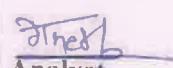
### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
H <sub>2</sub> S Conc.	N.D.	05	mg/Nm <sup>3</sup>	IS 11255 (Part-4) 1985 Reaffirmed 2006

Remark: --

N.D.: Not Detected.

Instrument used: - Polltech make Model PEM-HAS1, Instrument I.D. No. AIR-I-027  
Calibration Due date: - 01/09/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.

**AIR-F-005**

**CERTIFICATE OF ANALYSIS**

**ANALYSIS REPORT FOR STACK EMISSION**

Sample / Report Ref. No.	723/A-243/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	22/10/2021

**PARTICULARS OF STACK**

Stack Attached to	Emergency Chlorine Scrubber (BLW – 871)
Stack Diameter (Meter)	0.85
Stack Height (Meter)	17.0
Stack Temperature (°C)	32
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	--
Type of Fuel	--

**POLLUTION PARAMETERS**

Parameter	Result	Limit	Unit	Method
HCl Conc.	N.D.	20	mg/Nm <sup>3</sup>	Analar
Cl <sub>2</sub> Conc.	N.D.	05	ppm	IS 5182 (Part-19) 1982 Reaffirmed 2009

**Remark:-**

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Polltech make Model PEM – SMK 10M, Sr. No. PAPL/LAB/012

Calibration Due date: - 01/09/2022.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. 8.0.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	724/A-244/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	22/10/2021

### PARTICULARS OF STACK

Stack Attached to	Ventilation BLW Ph-1 (BLW 201)
Stack Diameter (Meter)	0.53
Stack Height (Meter)	27.0
Stack Temperature (°C)	31
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
CS <sub>2</sub> Conc.	N.D.	N.S.	ppm	IS 11255 (Part 4) 1985 Reaffirmed 2006
Organics Conc.	N.D.	N.S.	ppm	USEPA -0030 (GC)

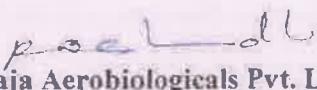
**Remark:-**

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: - Polltech make Model PEM – SMK 10M, Sr. No. PAPL/LAB/012

Calibration Due date: - 01/09/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

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CIN : U73100MH1995PTC092602

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	725/A-245/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	22/10/2021

### PARTICULARS OF STACK

Stack Attached to	Vent Sorb BLW Ph-II (BLW-501& 502)
Stack Diameter (Meter)	0.1
Stack Height (Meter)	25.0
Stack Temperature (°C)	30
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Benzene Conc.	< 0.05	NS	ppm	NIOSH-1501

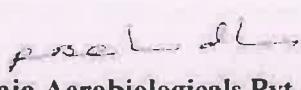
**Remark:-**

NS: - Not Specified.

Instrument Used: - Polltech make Model PEM - SMK 10M, Sr. No. PAPL/LAB/012

Calibration Due date: - 01/09/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	726/A-246/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	22/10/2021

### PARTICULARS OF STACK

Stack Attached to	Acid Scrubber (C-502)
Stack Diameter (Meter)	0.45
Stack Height (Meter)	25.0
Stack Temperature (°C)	33
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr.)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
NH <sub>3</sub> Conc.	N.D.	30	ppm	IS-11255 (Part 6) 1999 Reaffirmed 2009
H <sub>2</sub> SO <sub>4</sub> Conc.	N.D.	NS	ppm	Analar

**Remark:-**

NS: - Not Specified. N. D.: - Not Detected

Instrument Used: – Polltech make Model PEM- SMK 10M, Sr. No. PAPL/LAB/012

Calibration Due date: - 01/09/2022.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

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Public Testing Laboratory

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CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	728/A-248/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	22/10/2021

### PARTICULARS OF STACK

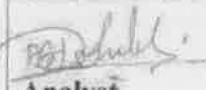
Stack Attached to	General Scubber MPP Plant
Stack Diameter (Meter)	0.25
Stack Height (Meter)	30.0
Stack Temperature (°C)	32
Stack Velocity of Flue Gases (m/s)	---
Stack Volume of Flue Gases (Nm³/hr)	---
Type of Fuel	---

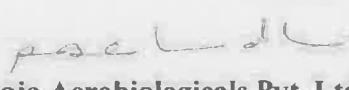
### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Acetone Conc.	<0.12	750	mg/Nm³	NIOSH-1300
Toluene Conc.	<0.19	100	mg/Nm³	NIOSH-1501
Xylene Conc.	<0.22	100	mg/Nm³	NIOSH-1501

**Remark:-**

Instrument used: -Polltech make Model PEM – SMK 10M, Sr. No. PAPL/LAB/012  
Calibration Due date: - 01/09/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory  
Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)  
Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024  
ISO 9001 : 2015, ISO 45001:2018 Certified  
CIN : U73100MH1995PTC092502  
NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	729/A-249/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	22/10/2021

### PARTICULARS OF STACK

Stack Attached to	Scrubber MPP
Stack Diameter (Meter)	0.1
Stack Height (Meter)	30.0
Stack Temperature (°C)	33
Stack Velocity of Flue Gases (m/s)	--
Stack Volume of Flue Gases (Nm³/hr)	--
Type of Fuel	--

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
H <sub>2</sub> S Conc.	N.D.	05	mg/Nm <sup>3</sup>	IS 11255 (Part-4) 1985 Reaffirmed 2006

#### Remark: -

N.D.: Not Detected.

Instrument used: - Polltech make Model PEM - SMK 10M, Sr. No. PAPL/LAB/012

Calibration Due date: - 01/09/2022.

*P. S. Kulkarni*  
Analyst

*p.s.kulkarni*  
For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):

Gazette Notification No. 9.0.3744(E) Valid upto : 18.10.2024

ISO 9001 : 2015, ISO 46001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-6088 Valid upto 31.12.2021

AIR-F-005

### CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	730/A-250/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/10/2021

### PARTICULARS OF STACK

Stack Attached to	Steam Boiler (B - 920 D)
Stack Diameter (Meter)	1.5
Stack Height (Meter)	42.0
Stack Temperature (°C)	168
Stack Velocity of Flue Gases (m/s)	6.4
Stack Volume of Flue Gases (Nm <sup>3</sup> /hr)	27881
Type of Fuel	Briquette & F.O.

### POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	116.5	150.0	mg/Nm <sup>3</sup>	IS-11255 (Part 1) 1985 Reaffirmed 2019
SO <sub>2</sub> Conc.	119.6	2320	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2019

**Remark:-**

Instrument used: -Polltech make Model PEM – SMK 10M, Sr. No. PAPL/LAB/012

Calibration Due date: - 01/09/2022.

Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2021

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	731/A-251/10-21
Work Order No.	--
Report Date	27/10/2021
Name of Industry	M/s. HIKAL LTD.
Address:	Plot No. T-21, MIDC Industrial Area Taloja, Dist. Raigad. 410 208.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	23/10/2021

### PARTICULARS OF STACK

Stack Attached to	D. G. Set
Stack Diameter (Meter)	0.1524
Stack Height (Meter)	6.0
Stack Temperature (°C)	180
Stack Velocity of Flue Gases (m/s)	16.4
Stack Volume of Flue Gases (Nm³/hr)	707
Type of Fuel	Diesel

### POLLUTION PARAMETERS

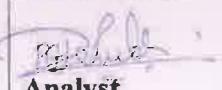
Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	69.2	150.0	mg/Nm³	IS-11255 (Part 1) 1985 Reaffirmed 2019
SO <sub>2</sub> Conc.	0.59	2320	kg/day	IS-11255 (Part 2) 1985 Reaffirmed 2019
NOx Conc.	27.3	NS	mg/Nm³	IS 11255 (Part 7) 2005 Reaffirmed-2012

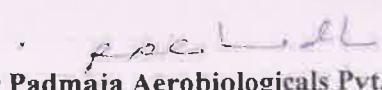
**Remark: -**

NS: - Not Specified.

Instrument used: - Polltech make Model PEM – SMK 10M, Sr. No. PAPL/LAB/012

Calibration Due date: - 01/09/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.

Workplace Monitoring					
Month	Jun-21		Date :04.06.21		
Chemical	Area		Std	Actual	Remarks
Acetone	Storage tank T-802 A & B.( During unloading )	750	0		
	MCA Plant 0mt.		0		
	6mts.		0		
	12mts.		0		
	MPP		0		
Ammonia	Storage tank T- 811.	25	0		
	Phase-1. ADTC reactors area 12mts.		0		
	Phase-2. Ammonia evaporator area. 0 mt.		0		
	Phase-3. 18% ammonia - Water mixture area 6 mts..		0		
	Tanker unloading pad.		0		
	Utility Area		0		
	ETP/PTP --- 6.0mts.		0		
Benzene	MPP-Top floor During IBC unloading	0.5	0		
	Phase-2 0mt.		0		
	6mts.		0		
	12mts.		0		
	Extract benzene tank V - 504 area.		0		
Chlorine	Storage tank T - 808 .	1	0		
	Tonner unloading pad.		0		
	Chlorine storage shed.		0		
	Chlorine evaporator shed.		0		
	MCA plant 12 mts.		0		
	Hypo storage pad.		0		
Methanol	Emergency scrubber and AHCL area.	200	0		
	Storage tank T-801 & 822 .( During unloading )		0		
	Phase 3.Cascade-1area.		0		
Aniline	Tanker unloading pad & storage tank.	2	0		
	Phase 3.Amidine reactor area.		0		
CS2	Tanker unloading pad & storage tank.	10	0		
	Phase 1 ADTC reactor and MPP-reactor R3101		0		
DMS	MPP 3rd Floor	0.1	0		
	MPP 2nd Floor		0		
	MPP 1st Floor		0		
	MPP Tank Farm ( During unloading )		0		
	MPP Packing		0		
DMF	MPP 3rd Floor	10	0		
	MPP 2nd Floor		0		
	MPP 1st Floor		0		
	MPP Tank Farm ( During unloading )		0		
	MPP Packing		0		
Triethyl amine	RM & FG storage area.	10	0		
	MPP Top floor-Tox cabin		0		
	Phase 3 -First and second floor & Hypo area		0		
Chloro Sulphonic Acid	Unloading area,Tank	5	0		
Formaldehyde	MPP-Top floor-Tox cabin during drum unloading	1	0		
Sodium Methoxide	MPP-First floor-Tox cabin during drum unloading	200	0		
Acetic Acid	T-826 (Tankfarm area),MPP-Tox cabin second floor(in Fena)	10	0		
Chlorine	Tonner area and hyporeactor R670	1	0		
Mono Chloro Benzene	T-4001,T4005 and T4006 area.	75	0		
Toluene	T807 and Phase 1 G-floor(during IKF aq.laye drum loading)	100	0		
Xylene	T823 and T4010	100	0		
Phenyl Hydrazine		0.1	0		
Checked By-		Verified By- 			

Workplace Monitoring					
Month	Jul-21			Date :07.07.21	
Chemical	Area	Std TLV ppm	Actual Level ppm	Remarks	
<b>Acetone</b>	Storage tank T-802 A & B.( During unloading )	750	0		
	MCA Plant 0mt.		0		
	6mts.		0		
	12mts.		0		
	MPP		0		
<b>Ammonia</b>	Storage tank T- 811.	25	0		
	Phase-1.ADTC reactors area 12mts.		0		
	Phase-2. Ammonia evaporator area. 0 mt.		0		
	Phase-3. 18% ammonia - Water mixture area 6 mts..		0		
	Tanker unloading pad.		0		
	Utility Area		0		
	ETP/PTP --- 6.0mts.		0		
<b>Benzene</b>	MPP-Top floor During IBC unloading	0.5	0		
	Phase-2 0mt.		0		
	6mts.		0		
	12mts.		0		
	Extract benzene tank V - 504 area.		0		
<b>Chlorine</b>	Storage tank T - 808 .	1	0		
	Tonner unloading pad.		0		
	Chlorine storage shed.		0		
	Chlorine evaporator shed.		0		
	MCA plant 12 mts.		0		
	Hypo storage pad.		0		
<b>Methanol</b>	Emergency scrubber and AHCL area.	200	0		
	Storage tank T-801 & 822 .( During unloading )		0		
<b>Aniline</b>	Phase 3.Cascade-1area.	2	0		
	Tanker unloading pad & storage tank.		0		
<b>CS2</b>	Phase 3.Amidine reactor area.	10	0		
	Tanker unloading pad & storage tank.		0		
<b>DMS</b>	Phase 1 ADTC reactor and MPP-reactor R3101	0.1	0		
	MPP 3rd Floor		0		
	MPP 2nd Floor		0		
	MPP 1st Floor		0		
	MPP Tank Farm ( During unloading )		0		
<b>DMF</b>	MPP Packing	10	0		
	MPP 3rd Floor		0		
	MPP 2nd Floor		0		
	MPP 1st Floor		0		
	MPP Tank Farm ( During unloading )		0		
<b>Triethyl amine</b>	MPP Packing	10	0		
	RM & FG storage area.		0		
<b>HCL</b>	MPP Top floor-Tox cabin	10	0		
	Phase 3 -First and second floor & Hypo area		0		
<b>Chloro Sulphonic Acid</b>	Unloading area,Tank	5	0		
<b>Fomaldehyde</b>	MPP-Top floor-Tox cabin during drum unloading	1	0		
<b>Sodium Methoxide</b>	MPP-First floor-Tox cabin during drum unloading	200	0		
<b>Acetic Acid</b>	T-826 (Tankfarm area),MPP-Tox cabin second floor(in Fena)	10	0		
<b>Chlorine</b>	Tonner area and hyporeactor R670	1	0		
<b>Mono Chloro Benzene</b>	T-4001,T4005 and T4006 area.	75	0		
<b>Toluene</b>	T807 and Phase 1 G-floor(during IKF aq.laye drum loading)	100	0		
<b>Xylene</b>	T823 and T4010	100	0		
<b>Phenyl Hydrazine</b>		0.1	0		
Checked By-		Verified By-			

Workplace Monitoring					
Month	Aug-21			Date :10.08.21	
Chemical	Area		Std TLV ppm	Actual Level ppm	Remarks
<b>Acetone</b>	Storage tank T-802 A & B.( During unloading )		750	0	
	MCA Plant 0mt.			0	
	6mts.			0	
	12mts.			0	
	MPP			0	
<b>Ammonia</b>	Storage tank T- 811.		25	0	
	Phase-1. ADTC reactors area 12mts.			0	
	Phase-2. Ammonia evaporator area. 0 mt.			0	
	Phase-3. 18% ammonia - Water mixture area 6 mts..			0	
	Tanker unloading pad.			0	
	Utility Area			0	
	ETP/PTP --- 6.0mts.			0	
<b>Benzene</b>	MPP-Top floor During IBC unloading		0.5	0	
	Phase-2 0mt.			0	
	6mts.			0	
	12mts.			0	
	Extract benzene tank V - 504 area.			0	
<b>Chlorine</b>	Storage tank T - 808 .		1	0	
	Tonner unloading pad.			0	
	Chlorine storage shed.			0	
	Chlorine evaporator shed.			0	
	MCA plant 12 mts.			0	
	Hypo storage pad.			0	
<b>Methanol</b>	Emergency scrubber and AHCL area.		200	0	
	Storage tank T-801 & 822 .( During unloading )			0	
<b>Aniline</b>	Phase 3.Cascade-1area.		2	0	
	Tanker unloading pad & storage tank.			0	
	Phase 3.Amidine reactor area.			0	
<b>CS2</b>	Tanker unloading pad & storage tank.		10	0	
	Phase 1 ADTC reactor and MPP-reactor R3101			0	
<b>DMS</b>	MPP 3rd Floor		0.1	0	
	MPP 2nd Floor			0	
	MPP 1st Floor			0	
	MPP Tank Farm ( During unloading )			0	
	MPP Packing			0	
<b>DMF</b>	MPP 3rd Floor		10	0	
	MPP 2nd Floor			0	
	MPP 1st Floor			0	
	MPP Tank Farm ( During unloading )			0	
	MPP Packing			0	
<b>Triethyl amine</b>	RM & FG storage area.		10	0	
	MPP Top floor-Tox cabin			0	
<b>HCL</b>	Phase 3 -First and second floor & Hypo area			0	
<b>Chloro Sulphonic Acid</b>	Unloading area,Tank		5	0	
<b>Fomaldehyde</b>	MPP-Top floor-Tox cabin during drum unloading		1	0	
<b>Sodium Methoxide</b>	MPP-First floor-Tox cabin during drum unloading		200	0	
<b>Acetic Acid</b>	T-826 (Tankfarm area),MPP-Tox cabin second floor(in Fena)		10	0	
<b>Chlorine</b>	Tonner area and hyporeactor R670		1	0	
<b>Mono Chloro Benzene</b>	T-4001,T4005 and T4006 area.		75	0	
<b>Toluene</b>	T807 and Phase 1 G-floor(during IKF aq.laye drum loading)		100	0	
<b>Xylene</b>	T823 and T4010		100	0	
<b>Phenyl Hydrazine</b>			0.1	0	
Checked By- <i>[Signature]</i>		Verified By- <i>[Signature]</i>			

Workplace Monitoring				
Month	Sep-21		Date :08.09.21	
Chemical	Area	Std TLV ppm	Actual Level ppm	Remarks
<b>Acetone</b>	Storage tank T-802 A & B.( During unloading )	750	0	
	MCA Plant 0mt.		0	
	6mts.		0	
	12mts.		0	
	MPP		0	
<b>Ammonia</b>	Storage tank T- 811.	25	0	
	Phase-1. ADTC reactors area 12mts.		0	
	Phase-2. Ammonia evaporator area. 0 mt.		0	
	Phase-3. 18% ammonia - Water mixture area 6 mts..		0	
	Tanker unloading pad.		0	
	Utility Area		0	
	ETP/PTP --- 6.0mts.		0	
MPP-Top floor During IBC unloading			0	
<b>Benzene</b>	Phase-2 0mt.	0.5	0	
	6mts.		0	
	12mts.		0	
	Extract benzene tank V - 504 area.		0	
Storage tank T - 808 .			0	
<b>Chlorine</b>	Tonner unloading pad.	1	0	
	Chlorine storage shed.		0	
	Chlorine evaporator shed.		0	
	MCA plant 12 mts.		0	
	Hypo storage pad.		0	
	Emergency scrubber and AHCL area.		0	
<b>Methanol</b>	Storage tank T-801 & 822 .( During unloading )	200	0	
	Phase 3.Cascade-1area.		0	
<b>Aniline</b>	Tanker unloading pad & storage tank.	2	0	
	Phase 3.Amidine reactor area.		0	
<b>CS2</b>	Tanker unloading pad & storage tank.	10	0	
	Phase 1 ADTC reactor and MPP-reactor R3101		0	
<b>DMS</b>	MPP 3rd Floor	0.1	0	
	MPP 2nd Floor		0	
	MPP 1st Floor		0	
	MPP Tank Farm ( During unloading )		0	
	MPP Packing		0	
<b>DMF</b>	MPP 3rd Floor	10	0	
	MPP 2nd Floor		0	
	MPP 1st Floor		0	
	MPP Tank Farm ( During unloading )		0	
	MPP Packing		0	
<b>Triethyl amine</b>	RM & FG storage area.	10	0	
	MPP Top floor-Tox cabin		0	
<b>HCL</b>	Phase 3 -First and second floor & Hypo area		0	
<b>Chloro Sulphonic Acid</b>	Unloading area,Tank	5	0	
<b>Fomaldehyde</b>	MPP-Top floor-Tox cabin during drum unloading	1	0	
<b>Sodium Methoxide</b>	MPP-First floor-Tox cabin during drum unloading	200	0	
<b>Acetic Acid</b>	T-826 (Tankfarm area),MPP-Tox cabin second floor(in Fena)	10	0	
<b>Chlorine</b>	Tonner area and hyporeactor R670	1	0	
<b>Mono Chloro Benzene</b>	T-4001,T4005 and T4006 area.	75	0	
<b>Toluene</b>	T807 and Phase 1 G-floor(during IKF aq.laye drum loading)	100	0	
<b>Xylene</b>	T823 and T4010	100	0	
<b>Phenyl Hydrazine</b>		0.1	0	

Checked By-

Verified By-

Workplace Monitoring					
Month	Oct-21		Date :13.10.21		
Chemical	Area	Std TLV ppm	Actual Level ppm	Remarks	
<b>Acetone</b>	Storage tank T-802 A & B.( During unloading )	750	0		
	MCA Plant 0mt.		0		
	6mts.		0		
	12mts.		0		
	MPP		0		
<b>Ammonia</b>	Storage tank T- 811.	25	0		
	Phase-1.ADTC reactors area 12mts.		0		
	Phase-2. Ammonia evaporator area. 0 mt.		0		
	Phase-3. 18% ammonia - Water mixture area 6 mts..		0		
	Tanker unloading pad.		0		
	Utility Area		0		
	ETP/PTP --- 6.0mts.		0		
<b>Benzene</b>	MPP-Top floor During IBC unloading	0.5	0		
	Phase-2 0mt.		0		
	6mts.		0		
	12mts.		0		
	Extract benzene tank V - 504 area.		0		
<b>Chlorine</b>	Storage tank T - 808 .	1	0		
	Tonner unloading pad.		0		
	Chlorine storage shed.		0		
	Chlorine evaporator shed.		0		
	MCA plant 12 mts.		0		
	Hypo storage pad.		0		
<b>Methanol</b>	Emergency scrubber and AHCL area.	200	0		
	Storage tank T-801 & 822 .( During unloading )		0		
	Phase 3.Cascade-1area.		0		
<b>Aniline</b>	Tanker unloading pad & storage tank.	2	0		
	Phase 3.Amidine reactor area.		0		
<b>CS2</b>	Tanker unloading pad & storage tank.	10	0		
	Phase 1 ADTC reactor and MPP-reactor R3101		0		
<b>DMS</b>	MPP 3rd Floor	0.1	0		
	MPP 2nd Floor		0		
	MPP 1st Floor		0		
	MPP Tank Farm ( During unloading )		0		
	MPP Packing		0		
<b>DMF</b>	MPP 3rd Floor	10	0		
	MPP 2nd Floor		0		
	MPP 1st Floor		0		
	MPP Tank Farm ( During unloading )		0		
	MPP Packing		0		
<b>Triethyl amine</b>	RM & FG storage area.	10	0		
	MPP Top floor-Tox cabin		0		
<b>HCL</b>	Phase 3 -First and second floor & Hypo area		0		
<b>Chloro Sulphonic Acid</b>	Unloading area,Tank	5	0		
<b>Fomaldehyde</b>	MPP-Top floor-Tox cabin during drum unloading	1	0		
<b>Sodium Methoxide</b>	MPP-First floor-Tox cabin during drum unloading	200	0		
<b>Acetic Acid</b>	T-826 (Tankfarm area),MPP-Tox cabin second floor(in Fena)	10	0		
<b>Chlorine</b>	Tonner area and hyporeactor R670	1	0		
<b>Mono Chloro Benzene</b>	T-4001,T4005 and T4006 area.	75	0		
<b>Toluene</b>	T807 and Phase 1 G-floor(during IKF aq.laye drum loading)	100	0		
<b>Xylene</b>	T823 and T4010	100	0		
<b>Phenyl Hydrazine</b>		0.1	0		

Checked By-

Verified By-

Workplace Monitoring					
Month	Nov-21		Date :06.11.21		
Chemical	Area		Std TLV ppm	Actual Level ppm	Remarks
<b>Acetone</b>	Storage tank T-802 A & B.( During unloading )		750	0	
	MCA Plant 0mt.			0	
	6mts.			0	
	12mts.			0	
	MPP			0	
<b>Ammonia</b>	Storage tank T- 811.		25	0	
	Phase-1.ADTC reactors area 12mts.			0	
	Phase-2. Ammonia evaporator area. 0 mt.			0	
	Phase-3. 18% ammonia - Water mixture area 6 mts..			0	
	Tanker unloading pad.			0	
	Utility Area			0	
	ETP/PTP --- 6.0mts.			0	
MPP-Top floor During IBC unloading				0	
<b>Benzene</b>	Phase-2 0mt.		0.5	0	
	6mts.			0	
	12mts.			0	
	Extract benzene tank V - 504 area.			0	
Storage tank T - 808 .				0	
<b>Chlorine</b>	Tonner unloading pad.		1	0	
	Chlorine storage shed.			0	
	Chlorine evaporator shed.			0	
	MCA plant 12 mts.			0	
	Hypo storage pad.			0	
	Emergency scrubber and AHCL area.			0	
<b>Methanol</b>	Storage tank T-801 & 822 .( During unloading )		200	0	
	Phase 3.Cascade-1area.			0	
<b>Aniline</b>	Tanker unloading pad & storage tank.		2	0	
	Phase 3.Amidine reactor area.			0	
<b>CS2</b>	Tanker unloading pad & storage tank.		10	0	
	Phase 1 ADTC reactor and MPP-reactor R3101			0	
<b>DMS</b>	MPP 3rd Floor		0.1	0	
	MPP 2nd Floor			0	
	MPP 1st Floor			0	
	MPP Tank Farm ( During unloading )			0	
	MPP Packing			0	
<b>DMF</b>	MPP 3rd Floor		10	0	
	MPP 2nd Floor			0	
	MPP 1st Floor			0	
	MPP Tank Farm ( During unloading )			0	
	MPP Packing			0	
<b>Triethyl amine</b>	RM & FG storage area.		10	0	
	MPP Top floor-Tox cabin			0	
<b>HCL</b>	Phase 3 -First and second floor & Hypo area			0	
<b>Chloro Sulphonic Acid</b>	Unloading area,Tank		5	0	
<b>Fomaldehyde</b>	MPP-Top floor-Tox cabin during drum unloading		1	0	
<b>Sodium Methoxide</b>	MPP-First floor-Tox cabin during drum unloading		200	0	
<b>Acetic Acid</b>	T-826 (Tankfarm area),MPP-Tox cabin second floor(in Fena)		10	0	
<b>Chlorine</b>	Tonner area and hyporeactor R670		1	0	
<b>Mono Chloro Benzene</b>	T-4001,T4005 and T4006 area.		75	0	
<b>Toluene</b>	T807 and Phase 1 G-floor(during IKF aq.laye drum loading)		100	0	
<b>Xylene</b>	T823 and T4010		100	0	
<b>Phenyl Hydrazine</b>			0.1	0	
Checked By- <i>[Signature]</i>		Verified By- <i>[Signature]</i>			

**FORM -07**  
PRESCRIBED UNDER RULE (18) 7

**Health Register : HIKAL LTD.**

**T - 21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra.**

(In respect of persons employed in dangerous operations under sect 87)

Name of Certifying Surgeon : Dr Dhanaji Mane Valid From : 01.02.2021 To 03.02.2022

NO.	NAME	SEX	AGE	DATE OF EMPLOYMENT OF PRESENT WORK	DATE OF LEAVING TRANSFER OF OTHER WORK	REASON FOR LEAVING TRANSFER DISCHARGE	DATE OF EXAMI- NATION OR OCCUPATION	RESULT OF MEDICAL EXAMI- NATION	IF SUSPENDED STATE PERIOD WITH REASON	CERTIFIED FIT TO RESUME DUTY ON WITH SIGN. OF CERTIFYING SURGEON	IF CERTIFICATE OF ILLNESS OR SUSPENSION ISSUED TO WORKED SIGNATURE WITH DATE OF CERTIFYING SURGEON
1	MR. KUNAL U MAUEKAR	M	33 Y					01-02-2021 MEDICALLY FIT			
2	MR. PRASHANT R PATIL	M	48 Y					01-02-2021 MEDICALLY FIT			
3	MR. CHANDRASHEKAR J BHOIR	M	51 Y					01-02-2021 MEDICALLY FIT			
4	MR. SHANTARAM K MHATRE	M	46 Y					01-02-2021 MEDICALLY FIT			
5	MR. SANDEEP S STOKE	M	45 Y					01-02-2021 MEDICALLY FIT			
6	MR. UMESH S KANTHALE	M	43 Y					01-02-2021 MEDICALLY FIT			
7	MR. VIJAY S MAHAJAN	M	57 Y					01-02-2021 MEDICALLY FIT			
8	MR. NILESH V UPADHYE	M	51 Y					01-02-2021 MEDICALLY FIT			
9	MR. RUPESH T PATIL	M	44 Y					01-02-2021 MEDICALLY FIT			
10	MR. BALIRAM H MADHAVI	M	44 Y					01-02-2021 MEDICALLY FIT			
11	MR. VIKAS Y PARAB	M	53 Y					01-02-2021 MEDICALLY FIT			
12	MR. SUNIL L THAKUR	M	47 Y					01-02-2021 MEDICALLY FIT			
13	MR. SANTOSH R PATIL	M	44 Y					01-02-2021 MEDICALLY FIT			
14	MR. SAMAR R PATIL	M	39 Y					01-02-2021 MEDICALLY FIT			
15	MR. SURESH V SUTAR	M	44 Y					01-02-2021 MEDICALLY FIT			
16	MR. GANGADHAR B KAVISHWAR	M	39 Y					01-02-2021 MEDICALLY FIT			
17	MR. BHALCHANDRA V SHINDE	M	48 Y					01-02-2021 MEDICALLY FIT			
18	MR. TUUKARAM N VARKHALE	M	43 Y					01-02-2021 MEDICALLY FIT			
19	MR. AMOL A PATIL	M	31 Y					01-02-2021 MEDICALLY FIT			
20	MR. VINOD V PATIL	M	49 Y					01-02-2021 MEDICALLY FIT			
21	MR. YOGESH G VARDAM	M	39 Y					01-02-2021 MEDICALLY FIT			

T-21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra  
(In respect of persons employed in dangerous operations under sect 87)  
Name of Certifying Surgeon : Dr Dhanaji Mane Valid From : 01.02.2021 To 03.02.2022

**FORM -07**  
**PREScribed UNDER RULE (18) 7**

**Health Register : HIKAL LTD.**

**T - 21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra.**

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22	MR. PRASAD D SURADKAR	M	32 Y						01-02-2021 MEDICALLY FIT			
23	MR. JAYANTA R PATIL	M	43 Y						01-02-2021 MEDICALLY FIT			
24	MR. DILIP S PATIL	M	52 Y						01-02-2021 MEDICALLY FIT			
25	MR. PRAKASH C PATIL	M	51 Y						01-02-2021 MEDICALLY FIT			
26	MR. KUNDAN A MHATRE	M	34 Y						01-02-2021 MEDICALLY FIT			
27	MR. VILAS B THOMBRE	M	45 Y						01-02-2021 MEDICALLY FIT			
28	MR. PRASHANT N KADAM	M	46 Y						01-02-2021 MEDICALLY FIT			
29	MR. AVINASH V HULE	M	52 Y						01-02-2022 MEDICALLY FIT			
30	MR. GOVIND G PATIL	M	56 Y						01-02-2021 MEDICALLY FIT			
31	MR. ASMIT PHADKE	M	31 Y						01-02-2021 MEDICALLY FIT			
32	MR. YOGESH C BHOGLE	M	42 Y						01-02-2021 MEDICALLY FIT			
33	MR. VIJAYANAND M KALGUTKAR	M	52 Y						01-02-2021 MEDICALLY FIT			
34	MR. ASHOK K MALVI	M	45 Y						01-02-2021 MEDICALLY FIT			
35	MR. KRISHNA G MHATRE	M	55 Y						01-02-2021 MEDICALLY FIT			
36	MR. PRAVIN S KADAM	M	41 Y						01-02-2021 MEDICALLY FIT			
37	MR. RAAMESH R SALVE	M	49 Y						01-02-2021 MEDICALLY FIT			
38	MR. JAYWANT R TAMBE	M	38 Y						01-02-2021 MEDICALLY FIT			
39	MR. DILIP G DUBE	M	54 Y						01-02-2021 MEDICALLY FIT			
40	MR. RAAMESH B SALUNKHE	M	53 Y						01-02-2022 MEDICALLY FIT			
41	MR. SUNIL C PAWSHE	M	45 Y						01-02-2021 MEDICALLY FIT			
42	MR. ASHISH A PATIL	M	39 Y						01-02-2021 MEDICALLY FIT			

दराम ९० (२) रुपये वर्ग तिलगाडी  
 दिनांक २५/२/२०२० पासून दिनांक ११/३/२०२७  
 प्राप्तिकृत प्रमाणवश्यकताक्रम ACS25DM/2016

## FORM -07

PRESCRIBED UNDER RULE (18) 7

**Health Register : HIKAL LTD.****T - 21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra.**

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43	MR. ROHIT K DIVKAR	M	29 Y					01-02-2021	MEDICALLY FIT			
44	MR. SACHIN R SHIGWAN	M	39 Y					01-02-2021	MEDICALLY FIT			
45	MR. DEEPAK H SURVE	M	48 Y					01-02-2021	MEDICALLY FIT			
46	MR. SATISH D GHARAT	M	49 Y					02-02-2021	MEDICALLY FIT			
47	MR. PRATIK R MIKAL	M	28 Y					02-02-2021	MEDICALLY FIT			
48	MR. SUSHANT S PATIL	M	32 Y					02-02-2021	MEDICALLY FIT			
49	MR. AMBAJI C PATIL	M	49 Y					02-02-2021	MEDICALLY FIT			
50	MR. RAJESH J SALVI	M	52 Y					02-02-2021	MEDICALLY FIT			
51	MR. DHANANJAY K JAWLE	M	57 Y					02-02-2021	MEDICALLY FIT			
52	MR. KASHINATH H PATIL	M	42 Y					02-02-2021	MEDICALLY FIT			
53	MR. MOHAN N WAYKAR	M	49 Y					02-02-2021	MEDICALLY FIT			
54	MR. HANUMANT A PAWAR	M	50 Y					02-02-2021	MEDICALLY FIT			
55	MR. NARAYAN P PATIL	M	52 Y					02-02-2021	MEDICALLY FIT			
56	MR. MANOJ H MANORE	M	53 Y					02-02-2021	MEDICALLY FIT			
57	MR. BHAGWAN G SANGDE	M	39 Y					02-02-2021	MEDICALLY FIT			
58	MR. ASHFAQ Y KHAN	M	36 Y					02-02-2021	MEDICALLY FIT			
59	MR. SOMNATH G PATIL	M	30 Y					02-02-2021	MEDICALLY FIT			
60	MR. SANIL S BANDELKAR	M	37 Y					02-02-2021	MEDICALLY FIT			
61	MR. SHRIKANT G BABHALE	M	55 Y					02-02-2021	MEDICALLY FIT			
62	MR. DILIP R TODKAR	M	54 Y					02-02-2021	MEDICALLY FIT			
63	MR. BABRUDEV M MHATRE	M	50 Y					02-02-2021	MEDICALLY FIT			

Reg. No. 3375/200/71

कानूनी अधिकारी का दस्तावेज़

महाराष्ट्र विधायक सभा कालांडर  
प्रति वर्ष २०२०-२१ वायनाड दिनांक १/१२/२०२१  
वायनाड प्राप्ति विधायक सभा कालांडर

**FORM -07**  
PRESCRIBED UNDER RULE (18) 7

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64	MR. CHANDRASHEKHAR R SALUNKHE	M	46	Y					02-02-2021 MEDICALLY FIT			
65	MR. MEGHAL D PATIL	M	28	Y					02-02-2021 MEDICALLY FIT			
66	MR. NILESH B ADSURE	M	45	Y					02-02-2021 MEDICALLY FIT			
67	MR. POPAT S PAWAR	M	33	Y					02-02-2021 MEDICALLY FIT			
68	MR. MAYUR M SHIROLKAR	M	39	Y					02-02-2021 MEDICALLY FIT			
69	MR. MANOJ D MHATRE	M	50	Y					02-02-2021 MEDICALLY FIT			
70	MR. SANJAY M PATIKAR	M	47	Y					02-02-2021 MEDICALLY FIT			
71	MR. SAGAR C VISHWASRAO	M	30	Y					02-02-2021 MEDICALLY FIT			
72	MR. VINAYAK R HANDIGOL	M	54	Y					02-02-2021 MEDICALLY FIT			
73	MR. PRAKASH N SAWANT	M	55	Y					02-02-2021 MEDICALLY FIT			
74	MR. PRAKASH N KADAM	M	47	Y					02-02-2021 MEDICALLY FIT			
75	MR. NAresh D KHUTALE	M	45	Y					02-02-2021 MEDICALLY FIT			
76	MR. BIPLAB CHOUDHARY	M	57	Y					02-02-2021 MEDICALLY FIT			
77	MR. SUDHAKAR M ALEKAR	M	57	Y					02-02-2021 MEDICALLY FIT			
78	MR. KARANSING RAJPUT	M	47	Y					02-02-2021 MEDICALLY FIT			
79	MR. AAYM DAPKE	M	50	Y					02-02-2021 MEDICALLY FIT			
80	MR. DINESH PANDURANG	M	50	Y					02-02-2021 MEDICALLY FIT			
81	MS. JAGRUTI J LANANE	F	26	Y					02-02-2021 MEDICALLY FIT			
82	MR. VIJENDRA P THAKUR	M	26	Y					02-02-2021 MEDICALLY FIT			
83	MR. RUPESH B MALI	M	31	Y					02-02-2021 MEDICALLY FIT			
84	MR. MACHINDRAM PATIL	M	45	Y					02-02-2021 MEDICALLY FIT			

क्रमांक १० (३) असावी मराठा निवास पुस्तक  
तिथीक २०२१/२०२० पारंपरिक नं/३२०२३  
प्राप्तिक्रम प्रमाणवाटव्याचिकित्सक क्र. ACS25DM2316

**FORM -07**  
PRESCRIBED UNDER RULE (18) 7

**Health Register : HIKAL LTD.**

**T - 21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra.**

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85	MR. OMKAR Z PAWAR	M	28 Y						02-02-2021 MEDICALLY FIT			
86	MR. MAYUR R KOLI	M	32 Y						02-02-2021 MEDICALLY FIT			
87	MR. ARUN K PATIL	M	32 Y						02-02-2021 MEDICALLY FIT			
88	MR. RAMKRIPAL R DWIVEDI	M	45 Y						02-02-2021 MEDICALLY FIT			
89	MR. ABHAY N KALE	M	54 Y						02-02-2021 MEDICALLY FIT			
90	MR. NILESH K KADAM	M	41 Y						02-02-2021 MEDICALLY FIT			
91	MR. MAHESH H THAKUR	M	28 Y						02-02-2021 MEDICALLY FIT			
92	MR. SATISH H BHANDARKAR	M	47 Y						02-02-2021 MEDICALLY FIT			
93	MR. RAJIV V CHAVAN	M	47 Y						02-02-2021 MEDICALLY FIT			
94	MR. NAresh R PATIL	M	41 Y						02-02-2021 MEDICALLY FIT			
95	MR. RAVINDRA B GAWAND	M	46 Y						02-02-2021 MEDICALLY FIT			
96	MR. ROSHAN M BHALEKAR	M	32 Y						02-02-2021 MEDICALLY FIT			
97	MR. VAIBHAV P SALVI	M	34 Y						02-02-2021 MEDICALLY FIT			
98	MR. UMESH V BHIDE	M	54 Y						02-02-2021 MEDICALLY FIT			
99	MR. SUCHIT D PATIL	M	31 Y						02-02-2021 MEDICALLY FIT			
100	MR. RUPESH K PATIL	M	35 Y						02-02-2021 MEDICALLY FIT			
101	MR. SHRIMANTH S PHULARI	M	55 Y						02-02-2021 MEDICALLY FIT			
102	MR. SARANG N KHADEKAR	M	27 Y						02-02-2021 MEDICALLY FIT			
103	MR. SANDEEP N PATIL	M	35 Y						02-02-2021 MEDICALLY FIT			
104	MR. MILIND M RANE	M	53 Y						02-02-2021 MEDICALLY FIT			
105	MR. VIJAY N THANGE	M	35 Y						02-02-2021 MEDICALLY FIT			

क्रमांक १० (३) ग्रन्ती वापरावाक्यानुसार  
प्राचीनकालीन अधिकारी का असंगति  
दिनांक २५/०२/२०२१ परिमित वर्ष १/१३/२०२१

**FORM -07**  
**PREScribed UNDER RULE (18) 7**

**Health Register : HIKAL LTD.**

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106	MR. SACHIN N MOKAL	M	36 Y					02-02-2021	MEDICALLY FIT			
107	MR. NILESH K BHOIR	M	33 Y					02-02-2021	MEDICALLY FIT			
108	MR. PRAVINKUMAR C UPADHYAY	M	30 Y					02-02-2021	MEDICALLY FIT			
109	MR. SACHIN V PATIL	M	46 Y					02-02-2021	MEDICALLY FIT			
110	MR. BHIMRAO D KHADE	M	52 Y					02-02-2021	MEDICALLY FIT			
111	MR. ROSHAN D JADHAV	M	33 Y					02-02-2021	MEDICALLY FIT			
112	MR. MOHAMMAD AATIF RUSTAM	M	23 Y					02-02-2021	MEDICALLY FIT			
113	MR. PANDHARINATH T MHATRE	M	49 Y					02-02-2021	MEDICALLY FIT			
114	MR. SHAILENDRA S SHIDORE	M	49 Y					02-02-2021	MEDICALLY FIT			
115	MR. PARSHURAM S PATIL	M	50 Y					02-02-2021	MEDICALLY FIT			
116	MR. BHALCHANDRA D VAISHAMPAYAN	M	52 Y					02-02-2021	MEDICALLY FIT			
117	MR. VINIT D BHANGALE	M	35 Y					02-02-2021	MEDICALLY FIT			
118	MR. DNYANESHWAR K MHATRE	M	56 Y					02-02-2021	MEDICALLY FIT			
119	MR. RAVINDRA G SHINDE	M	43 Y					02-02-2021	MEDICALLY FIT			
120	MR. AJAY T KADAM	M	47 Y					02-02-2021	MEDICALLY FIT			
121	MR. TAUSIF A KHATIK	M	25 Y					02-02-2021	MEDICALLY FIT			
122	MR. GANESH KUNDEKAR	M	26 Y					02-02-2021	MEDICALLY FIT			
123	MR. PREMNATH M MHATRE	M	38 Y					02-02-2021	MEDICALLY FIT			
124	MR. SUDARSHAN R INAMDAR	M	49 Y					02-02-2021	MEDICALLY FIT			
125	MR. KRISHNA B BHOSALE	M	48 Y					02-02-2021	MEDICALLY FIT			
126	MR. MUKUND G MADHAVI	M	48 Y					02-02-2021	MEDICALLY FIT			

क्रमांक ३१२/३०३० पात्रता दिनांक १/१२/२०२१  
 व्यावसाय ग्राम्यवाहिका संक. ACS25DM/2016

क्रमांक ३१३/३०३० पात्रता दिनांक १/१२/२०२१

डॉ. धनाजी त. माने

M.S. GENERAL SURGEON  
 ARIHANT (Mumbai)  
 Reg. No. 2465/2000/44

क्रमांक ३१४/३०३० पात्रता दिनांक १/१२/२०२१

डॉ. धनाजी त. माने

M.S. GENERAL SURGEON  
 ARIHANT (Mumbai)  
 Reg. No. 2465/2000/44

**FORM -07**  
PRESCRIBED UNDER RULE (18)7

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127	MR. NILESH M JOSHI	M	42 Y						02-02-2021 MEDICALLY FIT			
128	MR. SHIVAJI M NARHE	M	37 Y						02-02-2021 MEDICALLY FIT			
129	MR. ALAM B NAIKAWADI	M	30 Y						02-02-2021 MEDICALLY FIT			
130	MR. SAMEER S PATIL	M	27 Y						02-02-2021 MEDICALLY FIT			
131	MR. RAJU P JAIN	M	48 Y						02-02-2021 MEDICALLY FIT			
132	MR. BILAL M BAKSHI	M	28 Y						02-02-2021 MEDICALLY FIT			
133	MR. VILAS L SHINDE	M	37 Y						02-02-2021 MEDICALLY FIT			
134	MR. ANIL D NERURKAR	M	50 Y						02-02-2021 MEDICALLY FIT			
135	MR. POONAMCHAND CHOURDHARY	M	47 Y						03-02-2021 MEDICALLY FIT			
136	MR. OMKAR A DHUMAL	M	25 Y						03-02-2021 MEDICALLY FIT			
137	MR. GOPALKRISHNA D NAIK	M	50 Y						03-02-2021 MEDICALLY FIT			
138	MR. NITIN P PATIL	M	40 Y						03-02-2021 MEDICALLY FIT			
139	MR. UMEESH R PENDBHAE	M	34 Y						03-02-2021 MEDICALLY FIT			
140	MR. AMOL M PADGE	M	30 Y						03-02-2021 MEDICALLY FIT			
141	MR. DATTAGURU R DICHLIKAR	M	43 Y						03-02-2021 MEDICALLY FIT			
142	MR. ABHIEET C KALE	M	37 Y						03-02-2021 MEDICALLY FIT			
143	MR. HARISH S BHOR	M	47 Y						03-02-2021 MEDICALLY FIT			
144	MR. JAYANT N MHATRE	M	45 Y						03-02-2021 MEDICALLY FIT			
145	MR. GORAKH C PATIL	M	47 Y						03-02-2021 MEDICALLY FIT			
146	MR. HARSHAD A GOREGAONKAR	M	28 Y						03-02-2021 MEDICALLY FIT			
147	MR. NEELIKANTH P PACHPANDE	M	50 Y						03-02-2021 MEDICALLY FIT			

कालगार विभागीयम् ३९ फरवरी २०१८  
पट्टा १० (१३) प्राप्त तथा उत्तम विकास विभाग

मुद्रणम् २३/२३/२०२० पारं तिथं ११/१२/२०२३  
प्राप्ति विभागाचार्यवाचिकसक अ. ACS25DM/2016

**FORM -07**  
PRESCRIBED UNDER RULE (18) 7

**Health Register : HIKAL LTD.**

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(In respect of persons employed in dangerous operations under sect 87)

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NO.	NAME	SEX	AGE	DATE OF EMPLOYMENT OF PRESENT WORK	REASON FOR LEAVING TRANSFER OF OTHER WORK	NATURE OF JOB OR OCCUPATION	DATE OF EXAMINATION	RESULT OF MEDICAL EXAMINATION	IF SUSPENDED STATE PERIOD WITH REASON	CERTIFIED FIT TO RESUME DUTY ON WITH SIGN. OF CERTIFYING SURGEON	IF CERTIFICATE OF ILLNESS OR SUSPENSION ISSUED TO WORKER SIGNATURE WITH DATE OF CERTIFYING SURGEON
148	MR. SHASHIKANT B MODAK	M	52 Y				03-02-2021	MEDICALLY FIT			
149	MR. ASHISH JAYKUSAN PATIL	M	20 Y				03-02-2021	MEDICALLY FIT			
150	MR. NORBERT J CARDOZA	M	53 Y				03-02-2021	MEDICALLY FIT			
151	MR. CHANDRASHEKHAR K PATIL	M	53 Y				03-02-2021	MEDICALLY FIT			
152	MR. ANIL S GAWAND	M	49 Y				03-02-2021	MEDICALLY FIT			
153	MR. PRAMOD S VENGURLEKAR	M	53 Y				03-02-2021	MEDICALLY FIT			
154	MR. SUNIL M JANASKAR	M	41 Y				03-02-2021	MEDICALLY FIT			
155	MR. PRAMOD B GONBARE	M	36 Y				03-02-2021	MEDICALLY FIT			
156	MR. DEEPANJAN T BANNERJEE	M	41 Y				03-02-2021	MEDICALLY FIT			
157	MR. MACHINDRANATH M GORHE	M	48 Y				03-02-2021	MEDICALLY FIT			
158	MR. RUSHIKESH J DHARMALE	M	32 Y				03-02-2021	MEDICALLY FIT			
159	MR. AJIT V PATIL	M	47 Y				03-02-2021	MEDICALLY FIT			
160	MR. SANJAY D PATIL	M	25 Y				03-02-2021	MEDICALLY FIT			
161	MR. SAGAR P MHATRE	M	35 Y				03-02-2021	MEDICALLY FIT			
162	MR. KRISHNA P THAKUR	M	53 Y				03-02-2021	MEDICALLY FIT			
163	MR. VAIBHAV S CHORAT	M	45 Y				03-02-2021	MEDICALLY FIT			
164	MR. NANDKUMAR PATIL	M	45 Y				03-02-2021	MEDICALLY FIT			
165	MR. MAKRAND C KHARMALE	M	46 Y				03-02-2021	MEDICALLY FIT			
166	MR. OMKAR A MANORE	M	29 Y				03-02-2021	MEDICALLY FIT			
167	MR. ATULK PATIL	M	48 Y				03-02-2021	MEDICALLY FIT			
168	MR. VINOD R KENI	M	44 Y				03-02-2021	MEDICALLY FIT			

संकाय नं. १४०२०२० प्रमुख विवरक १/१३०२३

आपका प्रयास असत्त्वाचिक्रियक असेंडम २०१५

**FORM -07**  
PRESCRIBED UNDER RULE (18) 7

**Health Register : HIKAL LTD.**

**T - 21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra.**

(In respect of persons employed in dangerous operations under sect 87)

Name of Certifying Surgeon : Dr Dhanaji Mane Valid From : 01.02.2021 To 03.02.2022

NO.	NAME	SEX	AGE	DATE OF EMPLOYMENT OF PRESENT WORK	DATE OF LEAVING TRANSFER OF OTHER WORK	REASON FOR LEAVING OR TRANSFER OTHER WORK	NATURE OF JOB OR OCCUPATION	DATE OF EXAMINATION	RESULT OF MEDICAL EXAMINATION	IF SUSPENDED STATE PERIOD WITH REASON	CERTIFIED FIT TO RESUME DUTY ON WITH SIGN. OF CERTIFYING SURGEON	IF CERTIFICATE OF ILLNESS OR SUSPENSION ISSUED TO WORKED SIGNATURE WITH DATE OF CERTIFYING SURGEON
169	MR. GIRISH V KHARIVALE	M	43 Y						03-02-2021	MEDICALLY FIT		
170	MR. TANVEER A SHAIKH	M	32 Y						03-02-2021	MEDICALLY FIT		
171	MR. KIRAN D JADHAV	M	26 Y						03-02-2021	MEDICALLY FIT		
172	MR. SAGAR P PATIL	M	31 Y						03-02-2021	MEDICALLY FIT		
173	MR. DEVIDAS B MHATRE	M	35 Y						03-02-2021	MEDICALLY FIT		
174	MR. ASHPAK S BAGWAN	M	45 Y						03-02-2021	MEDICALLY FIT		
175	MR. RAJAN A NALAVADE	M	40 Y						03-02-2021	MEDICALLY FIT		
176	MR. SANDEEP S SOHANI	M	48 Y						03-02-2021	MEDICALLY FIT		
177	MR. RAVINDRA SATHE	M	48 Y						03-02-2021	MEDICALLY FIT		
178	MR. SANJAY G KUMBHAR	M	50 Y						03-02-2021	MEDICALLY FIT		
179	MR. ASHISH A PATIL	M	44 Y						03-02-2021	MEDICALLY FIT		
180	MR. VIVEK J CHITALE	M	47 Y						03-02-2021	MEDICALLY FIT		
181	MR. BHAVIK S RADHYA	M	30 Y						03-02-2021	MEDICALLY FIT		
182	MR. TUSHAR S BODAS	M	40 Y						03-02-2021	MEDICALLY FIT		
183	MR. VISHAL R PATIL	M	35 Y						03-02-2021	MEDICALLY FIT		
184	MR. DEVENDRA G PALEKAR	M	34 Y						03-02-2021	MEDICALLY FIT		
185	Miss SAMREEN SHAIKH	F	33 Y						03-02-2021	MEDICALLY FIT		
186	MR. SACHIN M PATIL	M	33 Y						03-02-2021	MEDICALLY FIT		
187	MR. UMEESH G RAUT	M	35 Y						03-02-2021	MEDICALLY FIT		
188	MR. GANESH L PATIL	M	40 Y						03-02-2021	MEDICALLY FIT		
189	MR. NINAD S CHAVAN	M	43 Y						03-02-2021	MEDICALLY FIT		

Page No. 2/2

दिनांक १०.०२.२०२० यात्रा दिनांक ११.०२.२०२०

प्रमाणिक संख्या ४५७२५८३  
प्रमाणिक प्राणवकार्यालयाचिक्षेपक क्र. ACS250M/2016

**FORM -07**  
**PRESCRIBED UNDER RULE (18) 7**

**Health Register : HIKAL LTD.**

**T - 21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra.**

(In respect of persons employed in dangerous operations under sect 87)

Name of Certifying Surgeon : Dr Dhanaji Mane Valid From : 01.02.2021 To 03.02.2022

NO.	NAME	SEX	AGE	DATE OF EMPLOYMENT OF PRESENT WORK	DATE OF LEAVING OTHER WORK	REASON FOR TRANSFER OF DISCHARGE	NATURE OF JOB OR OCCUPATION	DATE OF EXAMINATION	RESULT OF MEDICAL EXAMINATION	IF SUSPENDED STATE PERIOD WITH REASON	CERTIFIED FIT TO RESUME DUTY ON WITH SIGN. OF CERTIFYING SURGEON	IF CERTIFICATE OF ILLNESS OR SUSPENSION ISSUED TO WORKER SIGNATURE WITH DATE OF CERTIFYING SURGEON
190	MR. NITIN N KALE	M	56 Y					03-02-2021	MEDICALLY FIT			
191	MR. SHIVRAJ R TAWADE	M	50 Y					03-02-2021	MEDICALLY FIT			
192	MR. GOPICHAND B MOHITE	M	29 Y					03-02-2021	MEDICALLY FIT			
193	MR. DIPAK S MOKAL	M	42 Y					04-02-2021	MEDICALLY FIT			
194	MR. SUHAS R PATIL	M	33 Y					04-02-2021	MEDICALLY FIT			
195	MR. PRABHU GUDELI	M	48 Y					04-02-2021	MEDICALLY FIT			
196	MR. SANJEEVRAO S PATIL	M	52 Y					04-02-2021	MEDICALLY FIT			
197	MR. SANDEEP K RATHOD	M	31 Y					04-02-2021	MEDICALLY FIT			
198	MR. NILESH P MORE	M	32 Y					04-02-2021	MEDICALLY FIT			
199	MR. PRASHANT B BHOIR	M	35 Y					04-02-2021	MEDICALLY FIT			
200	MR. VAIBHAV L MAHADIK	M	39 Y					04-02-2021	MEDICALLY FIT			
201	MR. KIRAN S BABAR	M	32 Y					04-02-2021	MEDICALLY FIT			
202	MR. RAKESH V VAGRE	M	42 Y					04-02-2021	MEDICALLY FIT			
203	MR. MAHESH N GATARE	M	37 Y					04-02-2021	MEDICALLY FIT			
204	MR. MANSUKH PATEL	M	49 Y					04-02-2021	MEDICALLY FIT			
205	MR. PRAVIN K CHAUDHARI	M	40 Y					04-02-2021	MEDICALLY FIT			
206	MR. MAHENDRA B MALI	M	50 Y					04-02-2021	MEDICALLY FIT			
207	MR. NATURAM B MHATRE	M	44 Y					04-02-2021	MEDICALLY FIT			
208	MR. NARENDR A DHARMADIKARI	M	49 Y					04-02-2021	MEDICALLY FIT			
209	MR. UDAY B MAHADIK	M	54 Y					04-02-2021	MEDICALLY FIT			
210	MR. SANDESH B GARUDE	M	31 Y					04-02-2021	MEDICALLY FIT			

कामाने आवश्यक संगठन का

दस्तावेज़ १० (१) प्रथम संचयित इकाई का

दस्तावेज़ ११ नं० ३० प्रथम संचयित १/१२/२०२२

दस्तावेज़ १२ नं० ३० प्रथम संचयित क्र. ACS25DM/2016

प्रथम संचयित क्र. ACS25DM/2016

**FORM -07**

PRESCRIBED UNDER RULE (18) 7

**Health Register : HIKAL LTD.**

**T - 21 M.I.D.C. Area, Taloja, Dist. Raigad 410208 - Maharashtra.**

(In respect of persons employed in dangerous operations under sect 87)

Name of Certifying Surgeon : Dr Dhanaji Mane Valid From : 01.02.2021 To 03.02.2022

NO.	NAME	SEX	AGE	DATE OF EMPLOYMENT OF PRESENT WORK	DATE OF LEAVING TRANSFER OTHER WORK	REASON FOR LEAVING TRANSFER DISCHARGE	NATURE OF JOB OR OCCUPATION	DATE OF EXAMI- NATION	RESULT OF MEDICAL EXAMI- NATION	IF SUSPENDED STATE PERIOD WITH REASON	CERTIFIED FIT TO RESUME DUTY ON WITH SIGN. OF CERTIFYING SURGEON	IF CERTIFICATE OF ILLNESS OR SUSPENSION ISSUED TO WORKED SIGNATURE WITH DATE OF CERTIFYING SURGEON
211	MR. AJIT A THAKUR	M	48 Y						04-02-2021	MEDICALLY FIT		
212	MR. DURVAS G GUJARATHJI	M	27 Y						04-02-2021	MEDICALLY FIT		
213	MR. PRAMOD S SMHATRE	M	48 Y						04-02-2021	MEDICALLY FIT		
214	MR. JAGDISH D DANGI	M	52 Y						04-02-2021	MEDICALLY FIT		
215	MR. RAJIV R PANCHALKAR	M	52 Y						04-02-2021	MEDICALLY FIT		
216	MR. MANOJ H POKHARKAR	M	35 Y						04-02-2021	MEDICALLY FIT		
217	MR. BHARAT MANOHAR PATIL	M	46 Y						04-02-2021	MEDICALLY FIT		
218	MR. ASHISH ASHOK MAHAJAN	M	31 Y						04-02-2021	MEDICALLY FIT		
219	MR. ABHIJIT L SURVE	M	36 Y						04-02-2021	MEDICALLY FIT		
220	MR. AKASH D KASHID	M	31 Y						04-02-2021	MEDICALLY FIT		
221	MR. VAIBHAV D MAYEKAR	M	26 Y						04-02-2021	MEDICALLY FIT		
222	MR. MANU M SHIRASANGI	M	25 Y						04-02-2021	MEDICALLY FIT		
223	MR. GAJENDRA V PAWAR	M	45 Y						04-02-2021	MEDICALLY FIT		

संदर्भ संख्या २३४२० अधिकारी संख्या ५३१३०३  
अधिकारी संग्रहालय नं. ५८५५८००१६

Contract employee

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Hikal Limited - Taloja

Department	Quality Control		
<b>HIKAL</b>	TITLE		Document Number.: QC-F- GEN-006
	Analysis Request Sheet		Revision Number. /Date: 03/12.08.2020
			Superseded: 02/09.03.2018
			Effective Date: 14.08.2020
Prepared By: <i>[Signature]</i> Mr. Vinit D Bhangale Asst. Manager- Quality	Checked By: <i>[Signature]</i> Mr. Sanjay G Kumbhar Manager- Quality	Approved By: <i>[Signature]</i> Mr. Dinesh P Pitale Sr. Manager- Quality	Page Number: 1 of 2
Date: 10.08.2020	Date: 12. 08. 2020	Date: 12.08.2020	

Name of Sample	V-Notch Sample ETP outlet	Sample received From (Department /Plant)	ETP plant	
Source/Batch	V-Notch	A. R. No.		
Receipt Date:	07.12.2021	Receipt Time	9:00	
Reporting Date:	07.12.2021	Reporting Time	14:00	
Sample to be analyzed for	1) Appearance <input type="checkbox"/> 2) Water (KF) <input type="checkbox"/> 3) Loss on Drying <input type="checkbox"/> 4) Assay <input type="checkbox"/> 5) Impurity profile <input type="checkbox"/> 6) IR spectrum <input type="checkbox"/> 7) UV spectrum <input type="checkbox"/> 8) Melting Point <input type="checkbox"/> 9) pH <input type="checkbox"/> 10) Other (Please Specify) <input type="checkbox"/>			
Test	Specification	Findings	*C/F	Chemist /Date
PH	6.5 - 8.5	7.23	C	<i>[Signature]</i>
COD	Max - 250 ppm	214 ppm	C	<i>[Signature]</i>

\* C = Conforms & F = Fails.

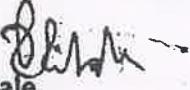
Comments:

Checked by / Date: *[Signature]*  
RJD 12.08.2021

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Hikal Limited - Taloja

Serial Number:	01
Issued By:	AV

Department	Quality Control	
<b>HIKAL</b>	TITLE	Document Number.: QC-F-GEN-006
	Analysis Request Sheet	Revision Number. /Date: 03/12.08.2020 Superseded: 02/09.03.2018 Effective Date: 14.08.2020 Page Number: 2 of 2
Prepared By:  Mr. Vinit D Bhangale Asst. Manager- Quality Date: 12.08.2020	Checked By:  Mr. Sanjay G Kumbhar Manager- Quality Date: 12.08.2020	Approved By:  Mr. Dinesh P Pitale Sr. Manager- Quality Date: 12.08.2020

### Analytical Work Record

#### Calculations:

$$\text{COD ppm} = \frac{(23.5 - 18.3) \times 1028 \times 8000}{20.0 \text{ ml}}$$
$$= 214 \text{ ppm}$$