

Date: 16.05.2023

To

The Additional Director

Ministry of Environment, Forest and Climate Change,

Integrated Regional Office,

Bays Nos. 24-25, Sector 31 A,

Dakshin Marg,

Chandigarh – 160030

(Mail ids.: eccompliance-nro@gov.in and ronz.chd-mef@nic.in)

Subject: Submission of six-monthly compliance report for period ending 31.03.2023 for the Project namely "Mahindra & Mahindra Ltd. (FES) - Swaraj Division Foundry" located at Village Majri, Tehsil Kharar, SAS Nagar, Punjab.

Respected Sir,

With reference to the EIA Notification & its amendments regarding submission of six monthly compliance report, we are hereby submitting the six monthly compliance report for period ending 31.03.2023 for the above said project through mail for your perusal.

Kindly acknowledge the receipt of the same.

Thanking you

Sincerely,

For M/s Mahindra & Mahindra Limited (FES) -Swaraj Division Foundry


(Authorized Signatory)

Name: Mr. Sanjiv Anand

Contact No.: 9881408549

Designation: VP (Mfg.)

Email: anand.swaraj@mahindraswaraj.com

CC:

- **Member Secretary**, SEIAA Punjab, Directorate of Environment and Climate Change, C/o Punjab State Council for Science & Technology, MGSIPA Complex, Sector 26- Chandigarh-160019. (Soft copy through CD)
- **Environmental Engineer**, The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Mohali, (Punjab). (soft copy through CD).

ASMO

2023

**SIX MONTHLY COMPLIANCE
REPORT**
(Period ending 31.03.2023)

F

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For

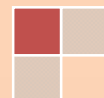
**“Mahindra & Mahindra Ltd.
(FES)-Swaraj Division Foundry”**
Located at Village Sialba Majri, Tehsil Kharar,
Distt. SAS NAGAR (Mohali), Punjab.

Prepared by:



Eco Paryavaran Laboratories and Consultants Pvt. Ltd.
E-207, Industrial Area, Phase-VIIIB (Sector-74), SAS Nagar (Mohali),
Punjab

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Ministry of Environment, Forest and Climate Change
Northern Region Office
Chandigarh-160030

DATA SHEET

1.	Project Type	Grey Iron Casting Unit
2.	Name of the Project	Mahindra & Mahindra Ltd. (FES) - Swaraj Division Foundry
3.	Clearance letter (s) F. No. & Date	The Environment Clearance has been granted vide letter No. SEIAA/M.S./2014/3189 dated 17.10.2014. EC letter is attached as Annexure-1 .
4.	Location	Village Majri, Tehsil Kharar
a)	District(s)	SAS Nagar, Mohali
b)	State (s)	Punjab
5.	Address for correspondence	M/s Mahindra & Mahindra Ltd. (Swaraj Division Foundry) Village Majri, Tehsil Kharar, District SAS Nagar (Mohali), Punjab.
6.	Salient features	Expansion of existing steel casting unit from 35,000 TPA to 60,000 TPA.
a)	Of the Project	The total plot area of the project is 72,843.415 sq.mt. However, expansion is carried out in the existing manufacturing unit therefore, no land is required for expansion.
b)	Of the environment	<p>Water Requirement: As per the Environmental Clearance Letter, after expansion the total water requirement of the project will be 250 KLD, which will be met from tube well. Out of which, 100 KLD will be used for domestic purpose, 65 KLD will be used for the process and 85 KLD will be used for cooling purposes.</p> <p>Wastewater Generation: As per the Environmental Clearance Letter, there is no waste effluent from the process. Wastewater from domestic use is to be treated through STP cum ETP and treated waste water to be used within the premises for plantation.</p> <p>Miscellaneous: As per the Environmental Clearance letter, the additional power requirement of 8,000 KW for the proposed expansion will be met from PSEB, total connected load = 14924.35 KW and sanctioned demand = 12951 KVA. Green belt developed within the plant premises.</p>
7.	Break-up of the Project Area	-
a)	Submergence area	Not applicable
8.	Break up of project affected population with enumeration of those	Not applicable

	losing houses/dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/land landless laborers / artisans.																																	
a)	SC/ST/ Adivasi's	Not applicable																																
b)	Others (Please indicate whether these figures are base on any scientific and systematic survey carried out or only provisional figures. if a survey has been carried out give details and year of survey)	Not applicable																																
9.	Financial details																																	
a)	Project cost as originally planned and subsequent revised estimates and the year of price reference.	Rs. 66.74 Crores (Originally Planned). The fixed assets as on 31st March 2023 is Rs. 236 Cr.																																
b)	Allocations made for environmental management plan with item wise and year of assessment.	<div>As per proposal submitted at the time of Environmental Clearance, proposed expenditure on EMP is below:</div> <table><tr><th>SI. No.</th><th>Particulars</th><th>Approx. capital cost (Rs. lac)</th><th>Approx. recurring cost (Rs. lac)</th></tr><tr><td>1.</td><td>Air pollution control</td><td>200.0</td><td>20.0</td></tr><tr><td>2.</td><td>Water Pollution control/STP cum ETP</td><td>60.0</td><td>5.0</td></tr><tr><td>3.</td><td>Noise pollution control (including cost of landscaping and green belt)</td><td>20.0</td><td>4.0</td></tr><tr><td>4.</td><td>Solid waste management</td><td>20.0</td><td>5.0</td></tr><tr><td>5.</td><td>Environment Monitoring & Management (including laboratory establishment)</td><td>30.0</td><td>5.0</td></tr><tr><td>6.</td><td>RWH</td><td>20.0</td><td>2.0</td></tr><tr><td>7.</td><td>Miscellaneous (Appointment of consultant, Management of Environment cell,</td><td>10.0</td><td>3.0</td></tr></table>	SI. No.	Particulars	Approx. capital cost (Rs. lac)	Approx. recurring cost (Rs. lac)	1.	Air pollution control	200.0	20.0	2.	Water Pollution control/STP cum ETP	60.0	5.0	3.	Noise pollution control (including cost of landscaping and green belt)	20.0	4.0	4.	Solid waste management	20.0	5.0	5.	Environment Monitoring & Management (including laboratory establishment)	30.0	5.0	6.	RWH	20.0	2.0	7.	Miscellaneous (Appointment of consultant, Management of Environment cell,	10.0	3.0
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		Consent fees and Monitoring		
		Total	360	44.0
c)	Benefit cost ratio/ Internal rate of return and year of assessment.	Will be calculated and submitted.		
d)	Whether (c) includes the cost of environmental management as shown in (b) above.	Yes		
e)	Actual expenditure incurred on the project so far.	The fixed assets as on 31 st March 2023 is Rs. 236 Cr.		
f)	Actual expenditure incurred on the environmental management plans so far:	The actual expenditure incurred till 31 st March, 2023 on EMP is approximately Rs. 26.18 Lacs.		
10.	Forest lands requirement:	Not applicable		
a)	The status of approval for diversion of forest land for non-forestry use.	Not applicable		
b)	The status of clear felling.	Not applicable		
c)	The status of compensatory a forestation programmer in the light of actual field experience so far.	Not applicable		
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.	Not applicable		
12.	Status of construction	The construction work for expansion project has been completed.		
a)	Date of commencement (actual and /or planned)	Work on proposed expansion was initiated in August 2019.		
b)	Date of completion (actual and/or planned)	December 2021. Copy of the CTO Renewal is enclosed as Annexure 2 .		
13.	Reasons for the delay if the project is yet to start:	Not applicable		

Compliance report on conditions imposed in Environmental Clearance

PART A - SPECIFIC CONDITIONS

Sl. No.	EC Conditions	Reply
i.	The company shall install separate cyclone. Followed bag filters and fume extraction system etc. to control the particulate emission below 50 mg/Nm ³ as proposed for the induction furnace to be installed.	Agreed, the unit has already installed cyclone and bag house filter to control the particulate emissions. Stack emission test reports are enclosed as Annexure-3 .
ii.	The National Ambient Air Quality Standard issued by the ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 as amended from time to time should be followed.	Agreed, ambient air quality emissions are being monitored on quarterly basis from NABL accredited laboratory. It is being ensured that the emissions are within the prescribed limits. Test Reports for ambient air quality monitoring are attached along as Annexure-4 . In addition, four ambient air monitoring stations have been installed at site.
iii.	Gaseous emission levels including secondary fugitive emission from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Codes of practice issued by the CPCB should be followed.	Agreed and complied, secondary fugitive emissions are being monitored and found well within permissible limits. Regular work zone monitoring is being done and test reports are attached along as Annexure-5 .
iv.	Vehicular pollution due to transportation of raw material and finished product should be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product.	Agreed and complied, vehicles involved in transportation of raw material and finished product are being monitored regularly. Copy of PUC is enclosed as Annexure 15 . For loading / unloading of raw material lifting magnets have been installed for controlling dust emissions. In final finished product & finished castings area, pucca floors have been provided, thus dust generation is controlled to the maximum extent possible.
v.	The net water requirement shall not exceed 250 KLD. No effluent shall be discharged, and 'zero' discharge shall be adopted. The domestic effluent will be treated in an STP and used onto land for green area within the premises.	Agreed and complied, net water demand does not exceed 250 KLD. The domestic effluent is being treated in STP followed by UF/RO for recycling the water back into the process for cooling and remaining is used onto land for green area within the premises.

vi.	The project proponent will construct rainwater harvesting tank for storage of the storm water from areas other than roof top and minimum storage capacity of the tank shall be of 90 percentile of rainfall event. The stored storm water shall be used for firefighting, irrigating green areas and other such purposes instead of using fresh water as agreed upon by the project proponent during the presentation before Committee on 18.09.2014.	Agreed and complied, storm water collection tank of 320 KL capacity has already been constructed at site. Excess of storm water is discharged to the PWD drain passing in front of the industry for which permission has already been obtained.
vii.	Rainwater harvesting for roof run-off should be implemented. Before recharging the roof run-off, pre-treatment must be done to remove suspended matter, oil and grease. However, no runoff from gardens/green area/roads/pavements shall be connected with the groundwater recharging system.	Agreed and complied, 3 rainwater harvesting pits have been constructed for roof run-off collection.
viii.	The waste sand generated from the process will be reclaimed and a reclamation plant will be set up for the purpose.	Agreed and complied, we are in the process of giving 70 MT waste sand to the processing supplier who is in turn giving to smaller foundries after processing. Work is under process for increasing the capacity of supplier for reclamation. It is done as per consultation with PPCB.
ix.	Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the Punjab Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bangalore, PPCB and CPCB.	Agreed and complied, monitoring of effluent and ground water is being done on quarterly basis. It is being ensured that the treated wastewater meets the norms prescribed by the Punjab Pollution Control Board or described under the Environment (Protection) Act, 1986. Test reports of ground water quality and effluent are attached along as Annexure-6 and Annexure-7 . Also, Leachate study has been carried out. Copy is attached as Annexure 8 .

x	Risk and Disaster Management Plan along with the mitigation measures as proposed shall be implemented.	Agreed and complied, onsite emergency plan has already been prepared and is being implemented by the industry. Risk analysis for fire explosion, oil spillage, leakage of LPG, electrocution etc. has been carried out and disaster management plan for the safety of employees and workers covering alarm systems, fire safety measures, first aid as well as emergency response team has also framed. Mock Drills are being scheduled and practiced for better understanding of workers.
xi	Green belt shall be developed as proposed. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Agreed and complied, work is under process for planting additional trees.
xii	All the commitments made to the public during the Public Hearing/ Public Consultation meeting should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bangalore.	Status of Public Hearing action plan is given below as: <ol style="list-style-type: none"> 1. Construction of toilets at Government Senior Secondary School, Sialba Majri after spending Rs. 9 Lacs has been completed. 2. Plantation on Sialba Majri road – Plantation has been done. 3. Lights on Sialba Majri road – 25 solar lights have been provided along the road in addition to 8 lights have already been installed. 4. Local employment – Around (60-70) percent employees are already employed from District Mohali. 5. Compensation to affected person – Covered under Public Liability insurance. Insurance is in place and copy is attached as Annexure 9.
xiii	The project proponent shall spend an amount of Rs. 20 Lacs for the activities to be undertaken under the Corporate Social Responsibility programme. This amount will be in addition to the amount to be spent under the provisions of the Companies Act, 2013 and Companies (Corporate social Responsibility Policy) Rules, 2014.	Swaraj Foundry Division has already undertaken various CSR activities like Free eye check-up camps, cancer screening camps, felicitating women farmers, pond renovation, tree plantation etc. Details showing CSR activities are enclosed as Annexure-10 . We have spent Rs. 12.8 Lacs under

		activities as mentioned in EC. In addition, we have already provided pure drinking water and girls toilet in Sialba Majri school. One condition of compliance is under way of Rs. 5 Lacs for treatment of poor patients in nearby village.
xiv	The company should provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agreed and Complied.
xv	The project proponent shall adhere to the commitments made in the Environment Management Plan. The Environment Management Cell will be responsible for implementation of EMP. Rs.350 Lacs will be incurred on account of capital cost and Rs.44 lacs/annum will be incurred as recurring cost for implementation of EMP.	Agreed and complied, environment management cell has been formed. Rs. 26.18 Lacs has been implemented for EMP till 31.03.2023.
xvi	Seismic hazard & flood hazard history & management plan and trace element analysis for groundwater shall be submitted to the Ministry's Regional Office at Chandigarh, Punjab Pollution Control Board and CPCB within 3 months of issue of environmental clearance letter.	Agreed and complied, the project site has not faced any major seismic hazard and flood hazard. However, as desired in EC letter, seismic hazard & flood hazard management plan is attached as Annexure 11 . Trace element analysis for groundwater has been undertaken respectively.

PART B - GENERAL CONDITIONS

Sl. No.	Conditions	Reply
i.	This environmental clearance will be valid for a period of five years from the date of its issue or till the completion of the project, whichever is earlier.	Agreed and complied, the environment clearance granted vide letter No. SEIAA/M.S./2014/3189 dated 17.10.2014. Copy of EC letter is attached as Annexure 1 .
ii.	The environmental safeguards contained in the application of the promoter/ mentioned during the presentation before State Level Environment Impact Assessment Authority/ State Expert Appraisal Committee should be implemented in letter and spirit.	Agreed and complied, the environmental safeguards are being implemented in true letter and spirit.
iii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by mail) to the respective Regional office of MoEF, the Zonal Office of CPCB and the SEIAA/Punjab Pollution Control Board.	Agreed and complied, six monthly compliance report is being submitted regularly to Regional Office of MoEF&CC as well as SEIAA, Punjab. Acknowledgement of last submitted six monthly compliance report for period ending 30.09.2022 is attached along as Annexure-12 .
iv.	Officials from the Regional Office of Ministry of Environment & Forests, Chandigarh/ State Level Environment Impact Assessment Authority/ State Level Expert Appraisal Committee/ Punjab Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/ data by the project proponents during their inspection. A complete set of all the documents submitted to State Environment Impact Assessment Authority should be forwarded to the CCF, Regional Office of Ministry of Environment & Forests, Chandigarh/ State Level Environment Impact Assessment Authority.	Agreed and complied, full co-operation/ facilities and documents/data will be provided to Officials from Regional Office of MoEF&CC/ State Level Environment Impact Assessment Authority/ State Level Expert Appraisal Committee/ Punjab Pollution Control Board during their inspection. A complete set of all the documents was also forwarded to the specified departments.
v.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority.	Agreed and complied, fresh application will be submitted to State Environment Impact Assessment Authority in case any changes will be done in the scope of the project.

vi.	Separate distribution pipelines be laid down for use of treated effluent/ raw water for horticultural/ gardening purposes with different colour coding.	Agreed and complied, separate pipelines have been provided to utilize the treated water for horticultural/ gardening purposes within the industry which have been color-coded accordingly.
vii.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by project proponents from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable. The project proponent shall also obtain permission from the NBWL, if applicable.	Agreed and complied, all necessary statutory approvals have been obtained and have been submitted to the esteemed office along with last six-monthly compliance reports.
viii.	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Punjab Pollution Control Board. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office, Ministry of Environment & Forests, Chandigarh and SEIAA, Punjab.	Complied, the advertisements have already been published in the newspaper and copy of same has been submitted already along with previously submitted six monthly compliance reports.
ix.	These stipulations would be enforced among others under the provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environmental (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Noted and agreed.
x.	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project and decisions of any competent court, to the extent applicable.	Agreed.

xi.	The project proponent shall obtain CLU from the competent authority, if any authority insists.	Agreed, approval under spot zoning has been granted to the industry. Further for expansion, no additional land has been acquired.
xii.	The project proponent shall obtain permission from CGWA for abstraction of 250KLD groundwater.	Agreed and complied, project proponent has obtained permission from CGWA for abstraction of 250 KLD of ground water. Also, fresh approval for ground water extraction has been obtained from PWRDA. The permission from the PWRDA is attached as Annexure 13 .
xiii.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Agreed and complied, a copy of environment clearance letter was shared with the concerned panchayat. In addition, website of the industry is developed and EC letter is uploaded on the website i.e. www.swarajtractors.com . Screenshot showing the same is attached as Annexure 14 .
xiv.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM _{2.5} , PM ₁₀ , SO ₂ , NO _x , CO, Pb, Ozone (ambient air as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Agreed and complied, previously submitted six monthly compliance report along with the test reports has been uploaded on the website of the industry i.e. www.swarajtractors.com . Screenshot of the website is attached as Annexure 14 . The display board has already been placed at the main gate of the industry.
xv.	The State Environment Impact Assessment Authority reserves the right to add additional safeguards/ measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards/ measures in a time bound and satisfactory manner.	Noted.

xvi.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	No appeal against the environment clearance was raised.
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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB
Ministry of Environment and Forests, Government of India

OTO Punjab Pollution Control Board,
 Vallabharan Bhawan, Nabha Road,
 Patiala - 147 001
 Telephone:- 0173-2215030

No. SEIAA/M.S./2014/3189

Dated 17.10.2014

Registered

To

Sh. Sohan Lal Malhe, Vice President,
 M/s Mahindra & Mahindra (P) Ltd.,
 (Swaraj Division Foundry unit)
 Village Majri, Tehsil Kharar, District Mohali

Subject: Environmental Clearance under EIA Notification dated 14.09.2006 for increase in the production capacity of differential, rear cover, gear box, trumpet & other tractor parts from 35,000 TPA to 60,000 TPA in the existing Swaraj Division Foundry unit located in the revenue estate of Village Majri, Tehsil Kharar, District SAS Nagar by M/s Mahindra & Mahindra (P) Ltd.,

This has reference to your application for obtaining environmental clearance for increase in the production capacity of differential, rear cover, gear box, trumpet & other tractor parts from 35,000 TPA to 60,000 TPA in the existing Swaraj Division Foundry unit located in the revenue estate of Village Majri, Tehsil Kharar, District SAS Nagar, Punjab and subsequent presentation given before the State Level Expert Appraisal Committee (SEAC) for seeking prior environmental clearance for subject cited project as required under the EIA Notification, 2006. The proposal has been appraised as per procedure prescribed under the provisions of EIA Notification dated 14.09.2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, 1-A, conceptual plan, rapid EIA report and the additional clarifications furnished in response to the observations of the SEAC.

It is inter-alia noted that the proposal involves increase in the production capacity of differential, rear cover, gear box, trumpet & other tractor parts from 35,000 TPA to 60,000 TPA in the existing Swaraj Division Foundry unit located in the revenue estate of Village Majri, Tehsil Kharar, District SAS Nagar. The area of the existing

manufacturing unit is 72843.415 sqm and expansion is to be carried out in the existing manufacturing unit. The industry shall use Iron Scrap, Pig Iron and Ferro alloys as raw material for manufacturing of above mentioned products. The cost of the expansion plan of the project is Rs.66.74 crores. The total water requirement of the project will be 250 KLD, which will be met from tube well. Out of which, 100 KLD will be used for domestic purpose, 65 KLD will be used in the process and 85 KLD will be used for cooling purpose. About 80 KLD of domestic effluent will be generated, which will be treated in an STP of 100 KLD capacity. The treated wastewater will be discharged on to land for irrigation. Green belt will be developed in an area of 29092.62 sq. m. and the same will be irrigated with treated wastewater

The existing power requirement available is 7308 KW and about 8000 KW additional power required. Total power requirement will be 15308 KW after expansion. 2 No. of D.G sets of 1000 KVA each will be installed as standby arrangement of power supply. No forest land falls in the project site and there is no National Park and Wild life Sanctuary within a radius of 10 Km from the project site. Rs. 20 Lacs will be spent on the following activities to be undertaken under the Corporate Social Responsibility programme:

- (i) Rs. 2 Lacs will be spent for environmental education cum awareness campaign through audio/video in Villages Hoshiarpur, Burona, Tarian, Mainpur and Majri and High schools of these villages once a year.
- (ii) Rs. 2 Lacs will be spent for health check up camps including vision, audiometry, spirometry, respiratory disorders and free medicines whenever required once a year in Villages Hoshiarpur, Burona, Tarian, Mainpur and Majri and will also provide and run a free Dispensary in Village Majri.
- (iii) Rs.3 lacs will be spent on providing of sewing machines, ceiling fans and tricycles to needy poor and handicapped once in five years in Villages Burona, Tarian, Mainpur and Majri
- (iv) Rs. 3 Lacs will be spent for providing purified drinking water and separate toilets in the schools and their upkeep in Villages Hoshiarpur, Burona, Mainpur and Majri.

- (v) Rs. 5 Lacs will be spent for distribution of uniforms, books & bags to students in the school specially from weaker section in Villages Burona, Tarian, Mainpur and Majri. Primary school of Sialba Majri has been adopted and separate toilets for girls have been provided.
- (vi) Rs.5 Lacs will be spent for free medical treatment to very poor patients as recommended by Hospital in Villages Hoshiarpur, Burona, Mainpur and Majri.

The Environment Management Cell will be responsible for implementation of EMP. Rs. 350 Lacs will be incurred on account of capital cost and Rs.44 lacs/annum will be incurred as recurring cost for implementation of EMP.

The case was considered by the SEAC in its 50th meeting held on 12.08.2011 and categorized this project as B1 and decided to Issue Terms of Reference for preparation of EIA report and EMP. The said TOR were conveyed to the industry for preparation of EIA/EMP and conduct of public hearing as per procedure laid down in Appendix IV of the EIA Notification dated 14.09.2006. Thereafter, the project proponent submitted the final EIA / EMP report alongwith the requisite documents. The case was again considered by the SEAC in its 91st meeting held on 25.01.2014 and observations were conveyed to the project proponent vide letter no. 1764 dated 06.02.2014. Thereafter, the case was again considered by the SEAC in its 94th meeting held on 12.06.2014 the decisions/observations of the SEAC were conveyed to the project proponent and CGWB vide letter no. 2022-23 dated 20.06.2014, respectively. Accordingly, the project proponent submitted reply to the observations of the SEAC.

Lastly, the case was considered by the SEAC in its 101st meeting held on 18.09.2014, wherein, the Committee awarded 'Silver Grading' to the project proposal and decided to forward the case to the SEIAA with the recommendation to grant environmental clearance to the project proponent subject to certain conditions in addition to the proposed measures.

Thereafter, the case was considered by the SEIAA in its 72nd meeting held on 11.10.2014 and the Authority noted that the case stands recommended by SEAC and the Committee awarded 'Silver Grading' to the project proposal. Therefore, the Authority decided to grant environmental clearance for increase in the production

capacity of rear cover, gear box, trumpet & other tractor parts from 35,000 to 60,000 TPA in existing premises of the industry located in the revenue estate of Village Majri, Tehsil Kharar, Distt. SAS Nagar, subject to the conditions as proposed by the SEAC, in addition to the proposed measures. Accordingly, SEIAA, Punjab hereby accords necessary environmental clearance for the above project under the provisions of EIA Notification dated 14.09.2006 and its subsequent amendments, subject to strict compliance of terms and conditions as follows:

Specific Conditions

- (i) The company shall install separate cyclone followed bag filters and fume extraction system etc. to control the particulate emissions below 50 mg/Nm³ as proposed for the induction furnace to be installed.
- (ii) The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 as amended from time to time should be followed.
- (iii) Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.
- (iv) Vehicular pollution due to transportation of raw material and finished product should be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product.
- (v) The net water requirement shall not exceed 250 KLD. No effluent shall be discharged and 'zero' discharge shall be adopted. The domestic effluent will be treated in an STP and used onto land for green area within the premises.
- (vi) The project proponent will construct rainwater harvesting tank for storage of the storm water from areas other than roof top and minimum storage capacity of the tank shall be of 90 percentile of rainfall event. The stored storm water shall be used for fire fighting, irrigating green areas and other such purposes instead of using fresh water as agreed upon by the project proponent during the presentation before Committee on 18.09.2014.

- (vii) Rainwater harvesting for roof run-off should be implemented. Before recharging the roof run-off, pretreatment must be done to remove suspended matter, oil and grease. However, no run off from gardens/green area/roads/pavements shall be connected with the groundwater recharging system.
- (viii) The waste sand generated from the process will be reclaimed and a reclamation plant will be set up for the purpose.
- (ix) Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the Punjab Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bangalore, PPCB and CPCB.
- (x) Risk and Disaster Management Plan along with the mitigation measures as proposed shall be implemented.
- (xi) Green belt shall be developed as proposed. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- (xii) All the commitments made to the public during the Public Hearing / Public Consultation meeting should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bangalore.
- (xiii) The project proponent shall spend an amount of Rs.20 Lacs for the activities to be undertaken under the Corporate Social Responsibility programme. This amount will be in addition to the amount to be spent under the provisions of the Companies Act, 2013 and Companies (Corporate social Responsibility Policy) Rules, 2014.
- (xiv) The company should provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xv) The project proponent shall adhere to the commitments made in the Environment Management Plan. The Environment Management Cell will be responsible for implementation of EMP. Rs.350 Lacs will be incurred on account of capital cost and Rs.44 lacs/annum will be incurred as recurring cost for

implementation of EMP.

- (xvi) Seismic hazard & flood hazard history & management plan and trace element analysis for groundwater shall be submitted to the Ministry's Regional Office at Chandigarh, Punjab Pollution Control Board and CPCB within 3 months of issue of environmental clearance letter.

General Conditions :

- i) This environmental clearance will be valid for a period of five years from the date of its issue or till the completion of the project, whichever is earlier.
- ii) The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.
- iii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by mail) to the respective Regional office of MoEF, the Zonal Office of CPCB and the SEIAA/Punjab Pollution Control Board.
- iv) Officials from the Regional Office of Ministry of Environment & Forests, Chandigarh / State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee / Punjab Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to State Environment Impact Assessment Authority should be forwarded to the CCF, Regional Office of Ministry of Environment & Forests, Chandigarh/State Level Environment Impact Assessment Authority.
- v) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority.
- vi) Separate distribution pipelines be laid down for use of treated effluent / raw water for horticultural/gardening purposes with different colour coding.
- vii) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by project proponents from the competent authorities including Punjab

Pollution Control Board and from other statutory bodies as applicable. The project proponent shall also obtain permission from the NBWL, if applicable.

- viii) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Punjab Pollution Control Board. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office, Ministry of Environment & Forests, Chandigarh and SEIAA, Punjab.
- ix) These stipulations would be enforced among others under the provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environmental (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- x) Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project and decisions of any competent court, to the extent applicable.
- xi) The project proponent shall obtain CLU from the competent authority, if any authority insists.
- xii) The project proponent shall obtain permission from CGWA for abstraction of 250 KLD groundwater.
- xiii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- xiv) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO₂, NO_x, CO, Pb, Ozone (ambient air as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xv) The State Environment Impact Assessment Authority reserves the right to add additional safeguards/ measures subsequently, if found necessary, and to take

action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards/ measures in a time bound and satisfactory manner.

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

Member Secretary (SEIAA)

REGISTERED

Enclst. No. _____

Dated _____

A copy of the above is forwarded to the following for information & further necessary action please.

1. The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-office Complex, East Arjun Nagar, New Delhi.
3. The Member Secretary, Punjab State Power Corporation Ltd., The Mall, Patiala.
4. The Deputy Commissioner, SAS Nagar.
5. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
6. The Chief Conservator of Forests (North), Ministry of Environment and Forest, Regional Office, Bays No.24-25, Sector-31-A, Chandigarh.
7. The Chief Town Planner, Pb., Department of Town & Country Planning, 6th Floor, PUDA Bhawan, Phase-8, Mohali.
8. The Director (Environment), Ministry of Environment and Forest, Northern Regional Office, Bays No.24-25, Sector-31-A, Chandigarh. The detail of the project proponent is as under:
 - a) Name of the applicant Sh. Sohan Lal Maine, Vice President
 - b) Telephone Number 0160-2643025
 - c) E-mail mail@swarajenterprise.com
9. The Environmental Engineer (Computers), Punjab Pollution Control Board, Head Office, Patiala for displaying the environmental clearance on the website of the State Level Environment Impact Assessment Authority.

10. The Executive Engineer, PUDA, Patiala.

Member Secretary (SEIAA)



भारत का राजपत्र The Gazette of India

सी.जी.-डी.एल.-अ.-18012021-224513
CG-DL-E-18012021-224513

असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)
PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 201]

नई दिल्ली, सोमवार, जनवरी 18, 2021/पौष 28, 1942

No. 201]

NEW DELHI, MONDAY, JANUARY 18, 2021/PAUSHA 28, 1942

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 18 जनवरी, 2021

का.आ. 221(अ).— केंद्रीय सरकार, तत्कालीन पर्यावरण और वन मंत्रालय में, पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) के अधीन अपनी शक्तियों के प्रयोग करते हुए, पर्यावरण समाघात निर्धारण अधिसूचना, 2006 (जिसे इसके बाद उक्त अधिसूचना कहा गया है) संख्या का. आ. 1533 (अ), तारीख 14 सितंबर, 2006 द्वारा प्रकाशित किया जा चुका है, उक्त अधिसूचना की अनुसूची में सभी संबंधित सूचीबद्ध नई परियोजनाओं या क्रियाकलापों के लिए उनके विस्तार और आधुनिकीकरण और/या उत्पाद मिश्रण में परिवर्तन किया जा सकता है यथास्थिति, भूमि को अभिप्रास करने के सिवाय, परियोजना प्रबंधन द्वारा किसी भी संनिर्माण कार्य या भूमि को तैयार करने से पूर्व संबंधित विनियामक प्राधिकरण से पूर्व पर्यावरणीय अनापत्ति अपेक्षित होगी।

और कोरोना वायरस (कोविड-19) के प्रकोप को देखते हुए और तत्पश्चात इसके नियंत्रण के लिए घोषित लॉकडाउन (कुल या आंशिक) ने, क्षेत्र में परियोजनाओं या क्रियाकलापों के कार्यान्वयन को प्रभावित किया है। पर्यावरण और वन जलवायु परिवर्तन मंत्रालय उक्त अधिसूचना में अनुज्ञात अधिकतम अवधि से परे पूर्व पर्यावरणीय अनापत्तियों की विधिमान्यता के विस्तार के लिए अनुरोधों की संख्या प्राप्ति में है, क्योंकि कोविड 19 महामारी अभी तक समाप्त नहीं हुई है। मामले की उक्त मंत्रालय में समीक्षा की गई है और चिंता इस तथ्य को ध्यान में रखते हुए है कि लॉकडाउन (कुल या आंशिक) के कारण, क्षेत्र में क्रियाकलापों को जारी रखना कठिन हो सकता है।

अतः अब, केंद्रीय सरकार, पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के (4) खंड के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) की उप-धारा (2) के खंड (v) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, लोक हित में उक्त नियमों के नियम 5 के उप-नियम (3) के खंड (क) के अधीन नोटिस की अपेक्षा अभिमुक्ति के पश्चात् भारत के राजपत्र असाधारण, भाग- II, खंड 3, उपखंड (II), में प्रकाशित, भारत सरकार की तत्कालीन पर्यावरण और वन मंत्रालय अधिसूचना का.आ.1533 (अ), तारीख 14 सितंबर, 2006, में निम्नलिखित और संशोधन करती है, अर्थात्: -

उक्त अधिसूचना में,

(i) उप शीर्ष II “चरण (2)-विस्तारण”, के अधीन पैरा 7 के उप पैरा 7(i) में, खंड (viii) के पश्चात् निम्नलिखित खंड अंतःस्थापित किया जाएगा अर्थात्: -

“(ix) उपरोक्त में अंतर्विष्ट किसी बात के होते हुए, 1 अप्रैल 2020 से 31 मार्च 2021 की अवधि में कोरोना वायरस (कोविड-19) के प्रकोप को देखते हुए और तत्पश्चात् इसके नियंत्रण के लिए घोषित लॉकडाउन (कुल या आंशिक) की दृष्टि में इस अधिसूचना के उपबंधों के अधीन मंजूर संदर्भ की शर्तों की विधिमान्यता की अवधि की गणना के प्रयोजन के लिए विचार नहीं किया जाएगा ,तथापि उक्त संदर्भ की शर्तों के संबंध में इस अवधि के दौरान अपनाए गए सभी क्रियाकलाप विधिमान्य समझे जाएंगे।”;

(ii) पैरा 9 क के स्थान पर, निम्नलिखित पैरा रखा जाएगा, अर्थात्: -

“9 क. इस अधिसूचना में अंतर्विष्ट किसी बात के होते हुए, 1 अप्रैल 2020 से 31 मार्च 2021 की अवधि में कोरोना वायरस (कोविड-19) के प्रकोप को देखते हुए और तत्पश्चात् इसके नियंत्रण के लिए घोषित लॉकडाउन (कुल या आंशिक) की दृष्टि में इस अधिसूचना के उपबंधों के अधीन मंजूर पूर्व पर्यावरणीय अनापत्ति की विधिमान्यता की अवधि की गणना के प्रयोजन के लिए विचार नहीं किया जाएगा ,तथापि उक्त पर्यावरणीय अनापत्ति के संबंध में इस अवधि के दौरान अपनाए गए सभी क्रियाकलाप विधिमान्य समझे जाएंगे।”;

[फा. सं. 22-25/2020-आई.ए. III]

गीता मेनन, संयुक्त सचिव

टिप्पण : मूल अधिसूचना भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) संख्या का.आ. 1533 (अ), तारीख 14 सितंबर, 2006 द्वारा प्रकाशित की गई थी और अधिसूचना अधिसूचना संख्या का.आ. 4254 (अ), तारीख 27 नवंबर, 2020 द्वारा अंतिम बार संशोधन किया गया था।

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE NOTIFICATION

New Delhi, the 18th January, 2021

S.O. 221(E).—Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the said notification) vide number S.O.1533(E), dated the 14th September, 2006, making the requirement of prior environmental clearance from the concerned regulatory authority mandatory for all new projects or activities listed in the Schedule to the said notification, their expansion and modernisation and/or change in product mix, as the case may be, before any construction work or preparation of land by the project management except for securing the land;

And whereas, in view of the outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, implementation of projects or activities in the field has been affected. Ministry of

Environment, Forest and Climate Change is in receipt of number of requests for extension of the validity of prior environmental clearances beyond the maximum period allowed in the said notification, as the COVID-19 pandemic has not yet come to an end. The matter has been examined in the said Ministry and the concern is genuine keeping in view the fact that due to lockdowns (total or partial), continuation of activities in the field has been difficult.

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986), read with sub-rule (4) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government, after having dispensed with the requirement of notice under clause (a) of sub-rule (3) of rule 5 of the said rules in public interest, hereby makes the following further amendments in the notification of Government of India, in the erstwhile Ministry of Environment and Forests, number S.O. 1533 (E), dated the 14th September, 2006, published in the Gazette of India, Extraordinary, Part-II, Section 3, Sub-section (II), namely:-

In the said notification, -

- (i) in paragraph 7, in sub-paragraph 7(i), under sub-heading II. “Stage (2) – Scoping”, after clause (viii), the following clause shall be inserted, namely:-

“(ix). Notwithstanding anything contained above, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Terms of Reference granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the said Terms of Reference shall be treated as valid.”;

- (ii) for paragraph 9A, the following paragraph shall be substituted namely:-

“9A. Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.”.

[F.No.22-25/2020-IA.III]

GEETA MENON, Joint Secy.

Note: The principal notification was published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) vide number S.O. 1533 (E), dated the 14th September, 2006 and was last amended vide the notification number S.O. 4254(E), dated the 27th November, 2020.



PUNJAB POLLUTION CONTROL BOARD

Zonal Office-I, Vatavaran Bhawan, Nabha Road, Patiala

Website:- www.ppcb.gov.in

Office Dispatch No :

Registered/Speed Post

Date:

Industry Registration ID: R12SAS30839

Application No : 20903242

To,
Sanjiv Anand
Sialba Majri , Tehsil Kharar
Mohali, Mohali-140110

Subject: Renewal of Consent to Operate under section 21 of the Air (Prevention & Control of Pollution) Act, 1981.

1. Particulars of Consent to Operate under Air Act, 1981 granted to the industry

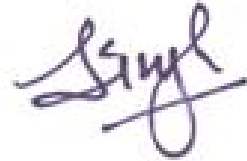
Consent to Operate Certificate No.	CTOA/Renewal/SAS/2023/20903242
Date of issue :	30/03/2023
Date of expiry :	29/09/2023
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOA/Varied/SAS/2022/17258867 From:27/02/2022 To:26/02/2023

2. Particulars of the Industry

Name & Designation of the Applicant	Sanjiv Anand, (Vice President)
Address of Industrial premises	Mahindra & Mahindra Limited (Fes)-swaraj Division Foundry, Village- Sialba Majri, Kharar, Sas Nagar-140110
Capital Investment of the Industry	23132.56 lakhs
Category of Industry	Red
Type of Industry	Automobile Manufacturing/assembly
Scale of the Industry	Large
Office District	Sas Nagar

All the term and conditions same as mentioned in the original consent no. CTOA/Varied/SAS/2022/17258867 dated 27/2/2022, valid upto 26/2/2023 issued to the industry. This extension letter may be appended with the original consent letter issued to the industry with an additional condition as under:

1. The industry shall comply with the Environmental laws.
2. The industry shall not discharge untreated effluent outside the premise



30/03/2023

**(Kuldeep Singh)
Environmental Engineer**

For & on behalf

of

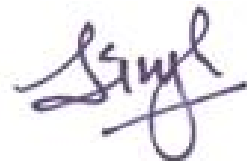
(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Punjab Pollution Control Board, Regional Office, SAS Nagar will personally verify redressal of grievance of the complainants reg indiscriminate disposal of Burnt sand. It is also requested to monitor the industry as per protocol framed by the Board to verify compliance with environmental law as well as compliance with proceeding decisions.



30/03/2023

**(Kuldeep Singh)
Environmental Engineer**

For & on behalf

of

(Punjab Pollution Control Board)



PUNJAB POLLUTION CONTROL BOARD
Zonal Office-I, Vatavaran Bhawan, Nabha Road, Patiala
Website:- www.ppcb.gov.in

Office Dispatch No :	Registered/Speed Post	Date:
Industry Registration ID: R12SAS30839		Application No : 20905851

To,
Mr Rajesh Jejurikar
Sialba Majri , Tehsil Kharar
Mohali,Mohali-140110

Subject: Renewal of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act, 1974.

1. Particulars of Consent to Operate under Water Act, 1974 granted to the industry

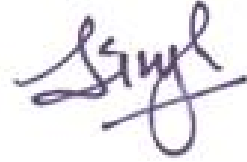
Consent to Operate Certificate No.	CTOW/Renewal/SAS/2023/20905851
Date of issue :	30/03/2023
Date of expiry :	29/09/2023
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOW/Varied/SAS/2022/17263394 From:14/01/2022 To:31/03/2023

2. Particulars of the Industry

Name & Designation of the Applicant	Sanjiv Anand, (Vice President)
Address of Industrial premises	Mahindra & Mahindra Limited (Fes)-swaraj Division Foundry, Village- Sialba Majri, Kharar,Sas Nagar-140110
Capital Investment of the Industry	23132.56 lakhs
Category of Industry	Red
Type of Industry	Automobile Manufacturing/assembling
Scale of the Industry	Large
Office District	Sas Nagar

All the term and conditions same as mentioned in the original consent no. CTOW/Varied/SAS/2022/17263394 dated 14/1/2022, valid upto 31/3/2023 issued to the industry. This extension letter may be appended with the original consent letter issued to the industry with an additional condition as under:

1. The industry shall comply with the Environmental laws.
2. The industry shall not discharge untreated effluent outside the premise



30/03/2023

(Kuldeep Singh)
Environmental Engineer

For & on behalf

of

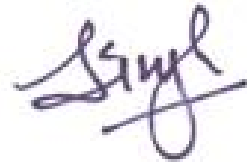
(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Punjab Pollution Control Board, Regional Office, SAS Nagar will personally verify redressal of grievance of the complainants reg indiscriminate disposal of Burnt sand. It is also requested to monitor the industry as per protocol framed by the Board to verify compliance with environmental law as well as compliance with proceeding decisions.



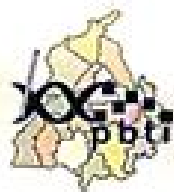
30/03/2023

(Kuldeep Singh)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



Punjab Biotechnology Incubator

Annexure - 3

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTI/ENV/140323/001151 / 12.06

Dated : 25/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/140323/001151
Sample code given by customer : APCD No.-1 (Melting Furnace)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Siabamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 14/03/2023 at 02:00pm
Date & Time of Sample Receipt in Lab : 14/03/2023 at 5:45pm
Sample Identification No. : PBTI/150323/07, dt. 14/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Siabamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Melting Furnace
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per APHA guidelines
Test Start Date : 15/03/2023
Test Completion Date : 20/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

25/03/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
5. Perishable samples will be destroyed after testing, others after one month from the date of issue of the report, unless otherwise agreed with the customer or as required by the applicable regulations.

Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/140323/001151
Sample code given by customer : APCD No.-1 (Melting Furnace)

Test Results

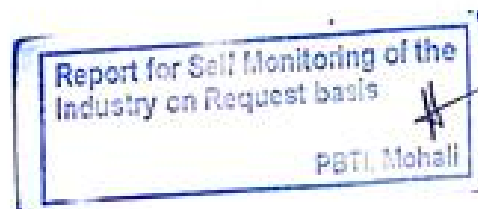
S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	BDL(MDL:1)	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	---	22	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

BDL:Below Detection Limit

MDL:Method Detection Limit

[Signature]
20/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab





Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/140323/001152 / 1109

Dated : 25/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/140323/001152
Sample code given by customer : APCD No.-2 (Core Knock Out)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Siabamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 14/03/2023 at 03:20pm
Date & Time of Sample Receipt in Lab : 14/03/2023 at 5:45pm
Sample Identification No. : PBTI/150323/08, dt. 14/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Siabamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Core Knock Out
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per APHA guidelines
Test Start Date : 15/03/2023
Test Completion Date : 20/03/2023

Report for S&E Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
5. Perishable samples will be destroyed after testing, others after one month from the date of issue of the report, unless otherwise agreed with the customer or as required by the applicable regulations.

Format No : PBTI/F/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt dgt



Dated :

Sample Registration No. : PBT/ENV/140323/001152
Sample code given by customer : APCD No.-2 (Core Knock Out)

Test Results

S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	BDL(MDL:1)	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	25	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

BDL: Below Detection Limit

MDL: Method Detection Limit

[Signature]
20/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

[Signature]
PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoP



No.PBTIENV/130323/001133 | 1126

Dated : 16/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/130323/001133
Sample code given by customer : APCD No.7, Sand Drier

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 13/03/2023 at 1:30am
Date & Time of Sample Receipt in Lab : 13/03/2023 at 5:30pm
Sample Identification No. : PBTI/150323/06, dt. 13.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Sand Drier
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 14/03/2023
Test Completion Date : 16/03/2023

Report for Self Monitoring of the
Lab on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com



Dated :

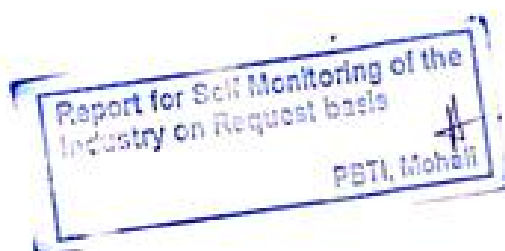
Sample Registration No. : PBT/ENV/130323/001133
Sample code given by customer : APCD No.7, Sand Drier

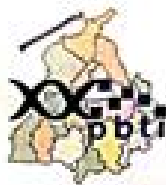
Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	2.7	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	22	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
16/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab





Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/100323/001123

1172

Dated : 15/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/100323/001123
Sample code given by customer : APCD No.-10 (Re-Shot Blast M/c-3 (unit-3))

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 10/03/2023 at 11:50am
Date & Time of Sample Receipt in Lab : 10/03/2023 at 5:10pm
Sample Identification No. : PBTI/140323/14, dt. 10/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Sialbamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Re-Shot Blast
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per APHA guidelines
Test Start Date : 11/03/2023
Test Completion Date : 15/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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2. There is no addition, deviation or exclusion from the method mentioned.
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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

Dated :

Sample Registration No. : PBT/ENV/100323/001123
Sample code given by customer : APCD No.-10 (Re-Shot Blast M/c-3 (unit-3))

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	1.4	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	---	25	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
15/3/2023
Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

[Signature]
PBTI, Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt

No.PBTIENV/100323/001124

1173

Dated : 15/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/100323/001124
Sample code given by customer : APCD No.-16 (Re-Shot Blast M/c-4)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 10/03/2023 at 1:00pm
Date & Time of Sample Receipt in Lab : 10/03/2023 at 5:10pm
Sample Identification No. : PBTI/140323/15, dt. 10/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Sialbamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Re-Shot Blast
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deegharyu) as per APHA guidelines
Test Start Date : 11/03/2023
Test Completion Date : 15/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

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National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, [PBTI_DST](#)

Dated :

Sample Registration No. : PBT/ENV/100323/001124
Sample code given by customer : APCD No.-16 (Re-Shot Blast M/c-4)

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	1.1	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	19	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
15/3/2023
Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No. PBTIENVH100323/001125

1137

Dated : 15/03/2022

TEST REPORT

Sample Registration No. : PBTI/ENV/100323/001125
Sample code given by customer : APCD No.-9 (Ro-Shot Blast M/c-2 (unit-2))

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Siglambaji, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No.	: PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection	: 10/03/2023 at 02:10pm
Date & Time of Sample Receipt in Lab	: 10/03/2023 at 5:10pm
Sample Identification No.	: PBTI/140323/16, dt. 10/03/2023
Site of Sample Collection	: Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Sialbamajri.
Name/Nature of sample	: Stack Emission Monitoring
Type of Sample	: Re-Shot Blast
Point of Sample Collection	: Port Hole on Stack After APCD
Condition of the sample on Receipt	: Intact coded sample
Qty/Pkg.	: As per standard method
Sampling Method	: Sample drawn by PBTI (Mr. Deerghayu) as per APHA guidelines
Test Start Date	: 11/03/2023
Test Completion Date	: 15/03/2023

Report for Self-Monitoring of the Industry on Request basis

PETL Möbel

Authorized Signatory
Technology Incubator Lab
Employee Code: 16

Notes

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
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Format No : PBT/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtilabs.com, /pbti_dst



Dated :

Sample Registration No. : PBT/ENV/100323/001125
Sample code given by customer : APCD No.-9 (Re-Shot Blast M/c-2 (unit-2))

Test Results

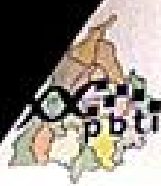
S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	1.6	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	24	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
15/3/2023
Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

[Signature]
PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt



No.PBTIENV/100323/001126

1175

Dated : 15/03/2023

TEST REPORT

Sample Registration No. : PBTIENV/100323/001126
Sample code given by customer : APCD No.-27 (Shot Blast M/c-5)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No: 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 10/03/2023 at 03:20pm
Date & Time of Sample Receipt in Lab : 10/03/2023 at 5:10pm
Sample Identification No. : PBTI/140323/17, dt. 10/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Sialbamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Shot Blast
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per APHA guidelines
Test Start Date : 11/03/2023
Test Completion Date : 15/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory
Punjab Biotechnology Incubator Lab
Employee Code: 16

- Note:
1. The above results pertain only to the sample tested.
 2. There is no addition, deviation or exclusion from the method mentioned.
 3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
 4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
 5. Perishable samples will be destroyed after testing, others after one month from the date of issue of the report, unless otherwise agreed with the customer or as required by the applicable regulations.

Format No : PBTI/F/7.8/06
Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBTI/ENV/100323/001126
Sample code given by customer : APCD No.-27 (Shot Blast M/c-5)

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	1.3	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	22	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
15/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/170323/001185

1221

Dated: 25/03/23

TEST REPORT

Sample Registration No. : PBTI/ENV/170323/001185
Sample code given by customer : APCD No.21 - Melting F/C 485

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dL 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 04:40pm
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/150323/09, dL 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.21 - Melting F/C 485
Point of Sample Collection : Port Hole on Stack after APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 25/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Note:

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Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

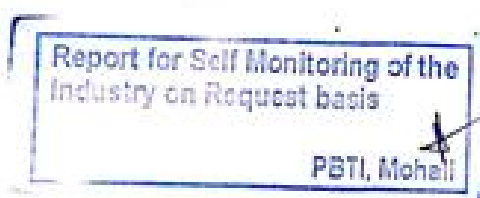
Sample Registration No. : PBT/ENV/170323/001185
Sample code given by customer : APCD No.21 - Melting F/C 485

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	1.1	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	---	23	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
25/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/170323/001186

1222

Dated : 25/03/2023

TEST REPORT

Sample Registration No. : PBTIENV/170323/001186
Sample code given by customer : APCD No.6 - New Sand Plant

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 03:20pm
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/150323/10, dt. 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.6 - New Sand Plant
Point of Sample Collection : Port Hole on Stack after APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 25/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



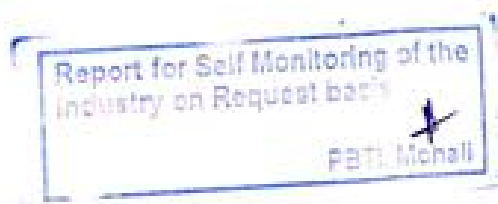
Dated :

Sample Registration No. : PBT/ENV/170323/001186
Sample code given by customer : APCD No.6 - New Sand Plant

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	1.6	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	24	l/min	IS 11255 : 1985 (Part 1) (RA 2019)


25/3/2023
Authorized Signatory
Punjab Biotechnology Incubator Lab





Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt of India



No.PBTIENV/160323/001169 | 1210

Dated : 25/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/160323/001169
Sample code given by customer : APCD No.-23 (HPML Sand Plant)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 11:50am
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/140323/10, dt. 16/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Sialbamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.-23
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per APHA guidelines
Test Start Date : 17/03/2023
Test Completion Date : 21/03/2023

Report for Self Monitoring of the
Industry on Request Basis

PBTI, Mohali

16/03/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

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National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst




Dated :

Sample Registration No. : PBTI/ENV/160323/001169
Sample code given by customer : APCD No.-23 (HPML Sand Plant)

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	8.1	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	24	l/min	IS 11255 : 1985 (Part 1) (RA 2019)


31/3/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

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No.PBTIENV/160323/001170 | 12/1

Dated : 21/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/160323/001170
Sample code given by customer : APCD No.-24 (HPML Shake Out)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Siabamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 01:10pm
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/140323/11, dt. 16/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Siabamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.-24
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTi (Mr. Deerghayu) as per APHA guidelines
Test Start Date : 17/03/2023
Test Completion Date : 21/03/2023

Report for Stack Monitoring of the
Industry on Regular basis

PBTi Mohali

21/3/2023
Authorized Signatory
Punjab Biotechnology Incubator Lab
Employee Code: 16

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Format No : PBTI/F/7.8/06
Revision No. 00 & 25.04.2019

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National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/160323/001170
Sample code given by customer : APCD No.-24 (HPML Shake Out)

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	6.7	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	---	27	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

1/14
21/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

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No.PBTIENV/160323/001171

12-12

Dated: 25/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/160323/001171
Sample code given by customer : APCD No.-25 (HPML Sand Cooler)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Siabamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 03:00pm
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/140323/12, dt. 16/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Siabamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.-25
Point of Sample Collection : Port Hole on Stack After APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerpaiy) as per APHA guidelines
Test Start Date : 17/03/2023
Test Completion Date : 21/03/2023

Report for Stack Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

- Note:
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Format No : PBTI/F/7.8/06
Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/160323/001171
Sample code given by customer : APCD No.-25 (HPML Sand Cooler)

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	8.3	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	27	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
21/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on frequent basis

[Signature]
PBTI Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI

No.PBTI/ENV/160323/001172

Dated : 25/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/160323/001172
Sample code given by customer : APCD No.-03 (Sand Cooler)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Siabamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 04:20pm
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/140323/13, dt. 16/03/2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division-Foundary, V & PO-Siabamajri.
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.-03
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per APHA guidelines
Test Start Date : 17/03/2023
Test Completion Date : 21/03/2023

Report for the Monitoring of the
Industry on a regular basis

PBTI Mohali

Authorized Signatory
Punjab Biotechnology Incubator Lab
Employee Code: 16

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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



Dated :

Sample Registration No. : PBTI/ENV/160323/001172
Sample code given by customer : APCD No.-03 (Sand Cooler)

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	BDL(MDL:1)	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Flow Rate	—	22	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

BDL:Below Detection Limit

MDL:Method Detection Limit

[Signature]
21/3/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

[Signature]
PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt

No.PBTIENV/140323/001150

12-14

Dated : 23/03/2023

TEST REPORT

Sample Registration No. : PBTIENV/140323/001150
Sample code given by customer : Wesman Line Blower

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 14/03/2023 at 12:10pm
Date & Time of Sample Receipt in Lab : 14/03/2023 at 5:45pm
Sample Identification No. : PBTI/130323/17, dt. 14.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Wesman Line Blower
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 15/03/2023
Test Completion Date : 22/03/2023

Report for Self Monitoring of the
agency on request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/140323/001150
Sample code given by customer : Wesman Line Blower

Test Results

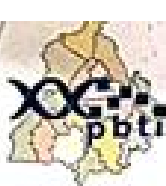
S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	7.0	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	--	1.1	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	--	211	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	--	2.3	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	--	28.5	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	--	12.3	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

X.110
22/3/2023
Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/130323/001130

11215

Dated : 25/03/23

TEST REPORT

Sample Registration No. : PBTIENV/130323/001130
Sample code given by customer : Core oven In

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 13/03/2023 at 11:30am
Date & Time of Sample Receipt in Lab : 13/03/2023 at 5:30pm
Sample Identification No. : PBTI/100323/01, dt. 13.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Core oven
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 14/03/2023
Test Completion Date : 22/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

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Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst

Dated :

Sample Registration No. : PBTI/ENV/130323/001130

Sample code given by customer : Core oven in

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	9.9	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	—	2.1	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	—	242	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	—	4.6	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	—	34.3	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	—	24	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

32/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on a regular basis
PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/130323/001131 | 12-16

Dated : 25/3/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/130323/001131
Sample code given by customer : Core oven out

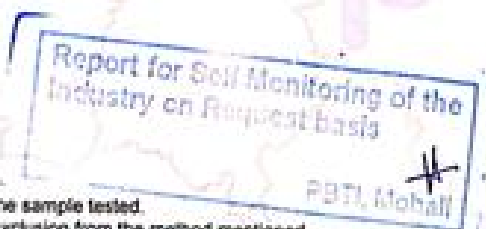
Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 13/03/2023 at 12:40pm
Date & Time of Sample Receipt in Lab : 13/03/2023 at 5:30pm
Sample Identification No. : PBTI/100323/02, dt. 13.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : Core oven
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 14/03/2023
Test Completion Date : 22/03/2023



[Signature]
22/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab
Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
5. Perishable samples will be destroyed after testing, others after one month from the date of issue of the report, unless otherwise agreed with the customer or as required by the applicable regulations.

Format No : PBTI/F/7.8/06
Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, [/pbt_dst](#)



Dated :

Sample Registration No. : PBTI/ENV/130323/001131
Sample code given by customer : Core oven out

Test Results

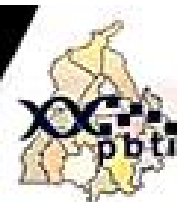
S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	6.0	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	--	2.2	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	--	245	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	--	5.0	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	--	39.4	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	--	25.6	l/min	IS 11255 : 1985 (Part 1) (RA 2019)


Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on basis


PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/130323/001132 | 1212

Dated : 25/03/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/130323/001132

Sample code given by customer : APCD No.4, Shake out

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary

V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011

Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022

Date & Time of Sample Collection : 13/03/2023 at 3:20pm

Date & Time of Sample Receipt in Lab : 13/03/2023 at 5:30pm

Sample Identification No. : PBTI/100323/03, dt. 13.03.2023

Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,

Name/Nature of sample : Stack Emission Monitoring

Type of Sample : Shake Out

Point of Sample Collection : Port Hole on Stack without APCD

Condition of the sample on Receipt : Intact coded sample

Qty/Pkg. : As per standard method

Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines

Test Start Date : 14/03/2023

Test Completion Date : 22/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Note:

1. The above results pertain only to the sample tested.
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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/130323/001132
Sample code given by customer : APCD No.4, Shake out

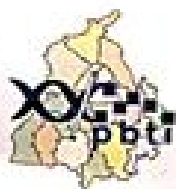
Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	17.8	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	—	6.1	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	—	294	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	—	2.8	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	—	109	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	—	23.5	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

22/3/2023
Authorized Signatory

Punjab Biotechnology Incubator Lab

Monitoring of the
PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/160323/001166

| 1218

Dated : 25/03/23

TEST REPORT

Sample Registration No. : PBTIENV/160323/001166
Sample code given by customer : DG No.2-625 KVA

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 02:40pm
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/100323/04, dt. 16.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : DG No.2-625 KVA
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 16/03/2023
Test Completion Date : 24/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

24/3/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

- Note:
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Format No : PBTI/F/7.8/04
Revision No. 00 & 25.04.2019

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National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com | /nbtidat



Dated :

Sample Registration No. : PBTI/ENV/160323/001166
Sample code given by customer : DG No.2-625 KVA

Test Results

S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	21.7	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	5.7	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	249	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	7.3	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	257	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	16	l/min	IS 11255 : 1985 (Part 1) (RA 2019)


Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt



No.PBTIENV/160323/001167

11219

Dated: 25/03/23

TEST REPORT

Sample Registration No. : PBTI/ENV/160323/001167
Sample code given by customer : DG No.1-625 KVA

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 03:30pm
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/100323/05, dt. 16.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : DG No.1-625 KVA
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 16/03/2023
Test Completion Date : 24/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

24/3/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

- Note:
1. The above results pertain only to the sample tested.
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 4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
 5. Perishable samples will be destroyed after testing, others after one month from the date of issue of the report, unless otherwise agreed with the customer or as required by the applicable regulations.

Format No : PBTI/F/7.8/04
Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/160323/001167
Sample code given by customer : DG No.1-625 KVA

Test Results

S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	22.4	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	6.4	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	252	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	7.5	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	245	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	18	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
24/3/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBT, Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI

No.PBTIENV/160323/001168 / 1220

Dated: 25/03/23

TEST REPORT

Sample Registration No. : PBTIENV/160323/001168
Sample code given by customer : DG No.600 KVA

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 02:40pm
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/100323/06, dt. 16.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : DG No.600 KVA
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 16/03/2023
Test Completion Date : 24/03/2023

Report for Self Monitoring of the
Industry on Frequent basis

PBTI, Mohali

Authorized Signatory
Punjab Biotechnology Incubator Lab
Employee Code: 16

Note:

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Format No : PBTI/F/7.8/04
Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBTI/ENV/160323/001168
Sample code given by customer : DG No.600 KVA

Test Results

S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	27.2	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	7.2	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	265	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	6.3	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	267	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	14	l/min	IS 11255 : 1985 (Part 1) (RA 2019)


24/3/2023
Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/170323/001187

1048

Dated : 10/04/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/170323/001187
Sample code given by customer : APCD No.26 - Loramendi Machine

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 11:30am
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/130323/18, dt. 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.26 - Loramendi Machine
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTi (Mr. Arvinder) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 10/04/2023

Report for Self Monitoring of the
Industry on Request basis

PBTi, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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Format No : PBTi/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



Dated :

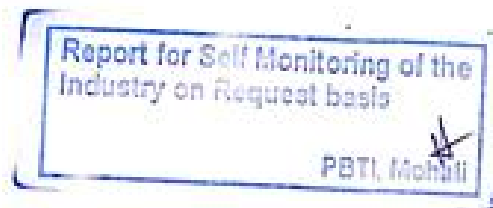
Sample Registration No. : PBT/ENV/170323/001187
Sample code given by customer : APCD No.26 - Loramendi Machine

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	2.5	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	—	2.3	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	—	207	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	—	5.3	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	—	36.5	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	—	27	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
10/9/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab





Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoP



No.PBTIENV/170323/001188

Dated :

TEST REPORT

Sample Registration No. : PBTIENV/170323/001188

Sample code given by customer : Core Drying Oven

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022

Date & Time of Sample Collection : 17/03/2023 at 12:50pm

Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm

Sample Identification No. : PBTI/130323/19, dt. 17.03.2023

Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar.

Name/Nature of sample : Stack Emission Monitoring

Type of Sample : Core Drying Oven

Point of Sample Collection : Port Hole on Stack without APCD

Condition of the sample on Receipt : Intact coded sample

Qty/Pkg. : As per standard method

Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines

Test Start Date : 18/03/2023

Test Completion Date : 10/04/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Arvinder
10/4/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

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National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, [/pbt_dst](#)



Dated :

Sample Registration No. : PBT/ENV/170323/001188

Sample code given by customer : Core Drying Oven

Test Results

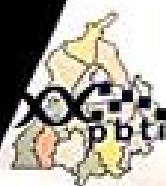
S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	65.1	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	—	8.8	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	—	281	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	—	7.1	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	—	133	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	—	25	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
10/4/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBT/ENV/170323/001189

Dated :

TEST REPORT

Sample Registration No. : PBT/ENV/170323/001189
Sample code given by customer : APCD No.22 -HPML Fume Extraction

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 01:50pm
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBT/160323/01, dt. 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Stack Emission Monitoring
Type of Sample : APCD No.22 -HPML Fume Extraction
Point of Sample Collection : Port Hole on Stack without APCD
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Arvinder) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 10/04/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
5. Perishable samples will be destroyed after testing, others after one month from the date of issue of the report, unless otherwise agreed with the customer or as required by the applicable regulations.

Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, [/pbt_dst](#)



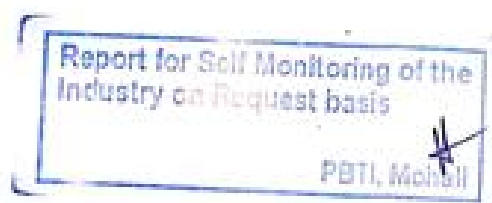
Dated :

Sample Registration No. : PBT/ENV/170323/001189
Sample code given by customer : APCD No.22 -HPML Fume Extraction

Test Results

S.No.	Parameter	General Emission Standards as per CPCB Guidelines	Results	Units	Test Method
1	Particulate Matter (PM)	150 mg/Nm ³ , Max	9.8	mg/Nm ³	IS 11255 : 1985 (Part 1) (RA 2019)
2	Sulphur Dioxide (SO ₂)	--	3.9	mg/Nm ³	IS 11255 : 1985 (Part 2) (RA 2019)
3	Nitrogen Dioxide (NO ₂)	--	258	mg/Nm ³	IS 11255 : 2005 (Part 7) (RA 2022)
4	Carbon Dioxide (CO ₂)	--	6.2	%	APHA AIR (By Flue Gas Analyser)
5	Carbon monoxide (CO)	--	105	mg/Nm ³	APHA AIR (By Flue Gas Analyser)
6	Flow Rate	--	23	l/min	IS 11255 : 1985 (Part 1) (RA 2019)

[Signature]
10/4/2023
Authorized Signatory
Punjab Biotechnology Incubator Lab





Punjab Biotechnology Incubator

Annexure - 4

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/160323/001179

10041

Dated : 10/04/2023

TEST REPORT

Sample Registration No. : PBTIENV/160323/001179
Sample code given by customer : 66KVA

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 14/03/2023 To 15/03/2023 at 11:00am to 11:00am
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/130323/03, dt. 14.03.2023 & 15.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Ambient Air Monitoring
Type of Sample : NA
Point of Sample Collection : 66KVA
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTi (Mr. Deeghayu) as per CPCB & PPCB guidelines
Test Start Date : 16/03/2023
Test Completion Date : 10/04/2023

Report for Self Monitoring of the
Industry on Request basis

PBTi, Mohali

10/04/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
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Format No : PBTi/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



Dated :

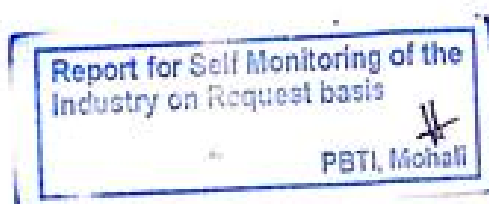
Sample Registration No. : PBT/ENV/160323/001179
Sample code given by customer : 66KVA

Test Results

S.No.	Parameter	NAAQS CPCB 2009 (Only For Guideline purpose)	Results	Units	Test Method
1	Sulphur Dioxide (SO ₂)	Max 80	BDL(MDL4)	µg/m ³	IS 5182 (Part 2):2001
2	Nitrogen Dioxide (NO ₂)	Max 80	39.5	µg/m ³	IS 5182 (Part 6) : 2006
3	Particulate Matter size < 10 µm or (PM 10)	Max 100	67.4	µg/m ³	IS 5182 (Part 23) : 2006
4	Particulate Matter size < 2.5 µm or (PM 2.5)	Max 60	5.0	µg/m ³	IS 5182 (Part 24) : 2019
5	Ozone (O ₃)	Max 100	BDL(MDL20)	µg/m ³	IS 5182 (Part 9) :1974
6	Lead (as Pb)	Max 1.0	BDL(MDL 0.5)	µg/m ³	APHA Air
7	Carbon monoxide (CO)	Max 2.0	BDL(MDL1.14)	mg/m ³	IS 5182 Part 10:1999
8	Ammonia (NH ₃)	Max 400	16.4	µg/m ³	IS 5182 (Part 20) : 2018
9	Benzene	Max 5.0	BDL(MDL 2.5)	µg/m ³	IS 5182 (Part 11) : 2006
10	Benzo(a)pyrene (BaP)	Max 1.0	BDL(MDL1)	ng/m ³	IS 5182 (Part 12) : 2004
11	Arsenic (As)	Max 6.0	BDL(MDL 3.0)	ng/m ³	APHA Air
12	Nickel (as Ni)	Max 20.0	BDL(MDL 10)	ng/m ³	APHA Air

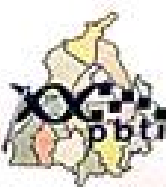
BDL:Below Detection Limit

MDL:Method Detection Limit



[Signature]
19/4/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt



No.PBTIENV/140323/001138 / 6043

Dated : 10/04/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/140323/001138
Sample code given by customer : Back Side Utility

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 13/03/2023 To 14/03/2023 at 10:00am to 10:00am
Date & Time of Sample Receipt in Lab : 14/03/2023 at 5:45pm
Sample Identification No. : PBTI/130323/01, dt. 13.03.2023 & 14.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Ambient Air Monitoring
Type of Sample : NA
Point of Sample Collection : Back Side Utility
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per CPCB & PPCB guidelines
Test Start Date : 14/03/2023
Test Completion Date : 10/04/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

[Signature]
10/4/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com



Dated :

Sample Registration No. : PBT/ENV/140323/001138

Sample code given by customer : Back Side Utility

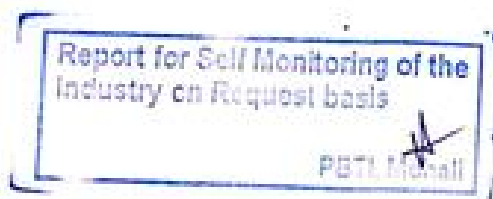
Test Results

S.No.	Parameter	NAAQS CPCB 2009 (Only For Guideline purpose)	Results	Units	Test Method
1	Sulphur Dioxide (SO ₂)	Max 80	BDL(MDL4)	µg/m ³	IS 5182 (Part 2):2001
2	Nitrogen Dioxide (NO ₂)	Max 80	42.9	µg/m ³	IS 5182 (Part 6) : 2006
3	Particulate Matter size < 10 µm or (PM 10)	Max 100	57.7	µg/m ³	IS 5182 (Part 23) : 2006
4	Particulate Matter size < 2.5 µm or (PM 2.5)	Max 60	46.4	µg/m ³	IS 5182 (Part 24) : 2019
5	Ozone (O ₃)	Max 100	BDL(MDL20)	µg/m ³	IS 5182 (Part 9) :1974
6	Lead (as Pb)	Max 1.0	BDL(MDL 0.5)	µg/m ³	APHA Air
7	Carbon monoxide (CO)	Max 2.0	BDL(MDL1.14)	mg/m ³	IS 5182 Part 10:1999
8	Ammonia (NH ₃)	Max 400	21.7	µg/m ³	IS 5182 (Part 20) : 2018
9	Benzene	Max 5.0	BDL(MDL 2.5)	µg/m ³	IS 5182 (Part 11) : 2006
10	Benzo(a)pyrene (BaP)	Max 1.0	BDL(MDL1)	ng/m ³	IS 5182 (Part 12) : 2004
11	Arsenic (As)	Max 6.0	BDL(MDL 3)	ng/m ³	APHA Air
12	Nickel (as Ni)	Max 20.0	BDL(MDL 10)	ng/m ³	APHA Air

BDL:Below Detection Limit

MDL:Method Detection Limit


10/4/2023
Authorized Signatory
Punjab Biotechnology Incubator Lab





Punjab Biotechnology Incubator

Annexure - 5

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/170323/001190

bvsi

Dated : 10/04/2023

TEST REPORT

Sample Registration No. : PBTI/ENV/170323/001190

Sample code given by customer : Maintenance Area

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022

Date & Time of Sample Collection : 17/03/2023 at 10:30am to 4:30pm

Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm

Sample Identification No. : PBTI/140323/03, dt. 17.03.2023

Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar.

Name/Nature of sample : Work Zone Monitoring

Type of Sample : NA

Point of Sample Collection : Maintenance Area

Condition of the sample on Receipt : Intact coded sample

Qty/Pkg. : As per standard method

Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per CPCB & PPCB guidelines

Test Start Date : 18/03/2023

Test Completion Date : 10/04/2023

Report for Self Monitoring of the
Industry on Request Basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
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Format No : PBTI/F/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/170323/001190
Sample code given by customer : Maintenance Area

Test Results

S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	4.97	ug/m3	IS 5182 (Part 23):2006 RA 2022
2	Sulphur Dioxide (SO _x)	BDL(MDL4)	ug/m3	IS 5182 (Part 2):2001 RA 2022
3	Nitrogen Dioxide (NO _x)	42.5	ug/m3	IS 5182 (Part 6):2006 RA 2022

BDL-Below Detection Limit

MDL-Method Detection Limit

[Signature]
10/4/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Environmental Monitoring of the
Industry at PBT, Mohali

PBT, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/170323/001191

Dated :

TEST REPORT

Sample Registration No. : PBTIENV/170323/001191
Sample code given by customer : Shot Blast Area

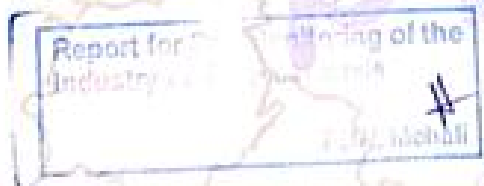
Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 09:30am to 3:30pm
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/140323/04, dt.17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar.
Name/Nature of sample : Work Zone Monitoring
Type of Sample : NA
Point of Sample Collection : Shot Blast Area
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per CPCB & PPCB guidelines
Test Start Date : 17/03/2023
Test Completion Date : 10/04/2023



Authorized Signatory
Punjab Biotechnology Incubator Lab
Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
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Format No : PBTI/F/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBT/ENV/170323/001191
Sample code given by customer : Shot Blast Area

Test Results

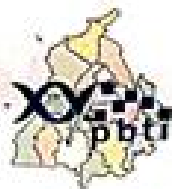
S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	7.09	ug/m3	IS 5182 (Part 23):2006 RA 2022
2	Sulphur Dioxide (SO _x)	BDL(MDL4)	µg/m3	IS 5182 (Part 2):2001 RA 2022
3	Nitrogen Dioxide (NO _x)	46.7	µg/m3	IS 5182 (Part 6):2006 RA 2022

BDL:Below Detection Limit MDL:Method Detection Limit

[Signature]
10/4/2023

Authorized Signatory
Punjab Biotechnology Incubator Lab





Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt



No.PBTIENV/160323/001177

10053

Dated : 10/04/23

TEST REPORT

Sample Registration No. : PBTI/ENV/160323/001177

Sample code given by customer : Pattern Shop

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022

Date & Time of Sample Collection : 16/03/2023 at 10:30am to 4:30pm

Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm

Sample Identification No. : PBTI/140323/01, dt.16.03.2023

Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar.

Name/Nature of sample : Work Zone Monitoring

Type of Sample : NA

Point of Sample Collection : Pattern Shop

Condition of the sample on Receipt : Intact coded sample

Qty/Pkg. : As per standard method

Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per CPCB & PPCB guidelines

Test Start Date : 17/03/2023

Test Completion Date : 10/04/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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2. There is no addition, deviation or exclusion from the method mentioned.
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Format No : PBTI/F/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, /pbt_dst



Dated :

Sample Registration No. : PBTI/ENV/160323/001177

Sample code given by customer : Pattern Shop

Test Results

S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	5.88	ug/m3	IS 5182 (Part 23):2006 RA 2022
2	Sulphur Dioxide (SO _x)	BDL(MDL4)	ug/m3	IS 5182 (Part 2):2001 RA 2022
3	Nitrogen Dioxide (NO _x)	37.3	ug/m3	IS 5182 (Part 6):2006 RA 2022

BDL:Below Detection Limit

MDL:Method Detection Limit

[Signature]
10/4/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

Notified State Analytical Agency

IS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoI



No.PBTIENV/160323/001178

Dated :

TEST REPORT

Sample Registration No. : PBTIENV/160323/001178
Sample code given by customer : Core Shop

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 16/03/2023 at 10:00am to 4:00pm
Date & Time of Sample Receipt in Lab : 16/03/2023 at 5:30pm
Sample Identification No. : PBTI/140323/02, dt.16.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Work Zone Monitoring
Type of Sample : NA
Point of Sample Collection : Core Shop
Condition of the sample on Receipt : Intact coded sample
Qty/Pkg. : As per standard method
Sampling Method : Sample drawn by PBTI (Mr. Deerghayu) as per CPCB & PPCB guidelines
Test Start Date : 17/03/2023
Test Completion Date : 10/04/2023

Report for Soil Monitoring of the
Industry at Punjab Labs

PBTI Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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Format No : PBTI/F/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

Sample Registration No. : PBTI/ENV/160323/001178
Sample code given by customer : Core Shop

Test Results

S.No.	Parameter	Results	Units	Test Method
1	Particulate Matter (PM)	7.84	ug/m3	IS 5182 (Part 23):2006 RA 2022
2	Sulphur Dioxide (SO _x)	BDL(MDL4)	ug/m3	IS 5182 (Part 2):2001 RA 2022
3	Nitrogen Dioxide (NO _x)	41.4	ug/m3	IS 5182 (Part 6):2006 RA 2022

BDL:Below Detection Limit

MDL:Method Detection Limit

K. H. K.
10/14/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

A
PBTI Mohali



Punjab Biotechnology Incubator

Annexure - 6

(Department of Science, Technology & Environment, GoP)

A Component of Knowledge City, Mohali

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BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt



No.PBTIFA0/170323/004583

STG 22

Dated : 31/03/2023

ULR : TC611723000000552F

TEST REPORT

Sample Registration No. : PBTIFA0/170323/004583
Sample code given by customer : Backside Utility

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 10:00am
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/130323/14, dt. 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Ground Water
Type of Sample : Grab
Point of Sample Collection : From Tubewell No.1
Condition of the sample on Receipt : Intact coded sample under refrigerated and preserved conditions
Qty/Pkg. : 2.500L approx in plastic and glass bottles
Sampling Method : Sample drawn by PBTI (Mr. Rajat) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 25/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

31/03/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

1. The above results pertain only to the sample tested.
2. There is no addition, deviation or exclusion from the method mentioned.
3. The report shall not be used for advertising or any legal purpose without written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
4. This report cannot be re-produced, except when in full, without the written permission from the Chief Executive Officer, Punjab Biotechnology Incubator.
5. Perishable samples will be destroyed after testing, others after one month from the date of issue of the report, unless otherwise agreed with the customer or as required by the applicable regulations.

Format No : PBTIF/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtillabs.com, /pbt_dst



Dated :

ULR : TC611723000000552F

Sample Registration No. : PBTI/FA0/170323/004583

Sample code given by customer : Backside Utility

Test Results

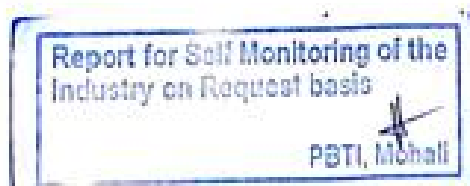
S.No.	Parameter	Results	Units	Test Method
1	pH	7.48		IS 3025 (Part 11) 2022
2	Total Suspended Solids (TSS)	1.1	mg/l	IS 3025 (Part 17) 2022
3	Total Dissolved Solids (TDS)	349	mg/l	IS 3025 (Part 16) 1984
4	Biochemical Oxygen Demand (BOD ₃ at 27°C)	<1	mg/l	IS 3025 (Part 44) 1993
5	Chemical Oxygen Demand (COD) Total	BDL(MDL:2)	mg/l	IS 3025 (Part 58) 2006
6	Chloride (as Cl)	10	mg/l	IS 3025 (Part 32)
7	Sulphate (as SO ₄)	4.0	mg/l	IS 3025 (Part 24)

BDL:Below Detection Limit

MDL:Method Detection Limit


Authorized Signatory

Punjab Biotechnology Incubator Lab





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No. PBTIFA01/170323/004584 / 5928

Dated: 31/03/2023

ULR : TC611723000000553F

TEST REPORT

Sample Registration No. : PBTIFA01/170323/004584
Sample code given by customer : Backside Melt Shop

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 10:25am
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/130323/15, dt. 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Ground Water
Type of Sample : Grab
Point of Sample Collection : From Tubewell No.2
Condition of the sample on Receipt : Intact coded sample under refrigerated and preserved conditions
Qty/Pkg. : 2.500L approx in plastic and glass bottles
Sampling Method : Sample drawn by PBTI (Mr. Rajat) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 25/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

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Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

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Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

ULR : TC611723000000553F

Sample Registration No. : PBTI/FA0/170323/004584

Sample code given by customer : Backside Melt Shop

Test Results

S.No.	Parameter	Results	Units	Test Method
1	pH	7.46		IS 3025 (Part 11) 2022
2	Total Suspended Solids (TSS)	4.3	mg/l	IS 3025 (Part 17) 2022
3	Total Dissolved Solids (TDS)	352	mg/l	IS 3025 (Part 16) 1984
4	Biochemical Oxygen Demand (BOD3 at 27°C)	<1	mg/l	IS 3025 (Part 44) 1993
5	Chemical Oxygen Demand (COD) Total	BDL(MDL-2)	mg/l	IS 3025 (Part 58) 2006
6	Chloride (as Cl)	12.5	mg/l	IS 3025 (Part 32)
7	Sulphate (as SO ₄)	1.0	mg/l	IS 3025 (Part 24)

BDL:Below Detection Limit

MDL:Method Detection Limit

[Signature]
25/3/2023
Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali



Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

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No.PBTIFA0/170323/004585

15526

Dated : 31/03/2023

TEST REPORT

ULR : TC611723000000674F

Sample Registration No. : PBTIFA0/170323/004585

Sample code given by customer : Backside Utility - Pre Monsoon

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary

V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011

Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022

Date & Time of Sample Collection : 17/03/2023 at 10:45pm

Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm

Sample Identification No. : PBTI/130323/16, dt. 17.03.2023

Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,

Name/Nature of sample : Ground Water

Type of Sample : Grab

Point of Sample Collection : From Tubewell

Condition of the sample on Receipt : Intact coded sample under refrigerated and preserved conditions

Qty/Pkg. : 7.550L approx in plastic and glass bottles

Sampling Method : Sample drawn by PBTi (Mr. Rajat) as per APHA guidelines

Test Start Date : 18/03/2023

Test Completion Date : 27/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTi, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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Format No : PBTI/F/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

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Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

ULR : TC611723000000674F

Sample Registration No. : PBT/FA0/170323/004585

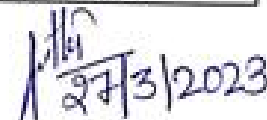
Sample code given by customer : Backside Utility - Pre Monsoon

Test Results

S.No.	Parameter	Results	Units	Test Method
1	pH	7.53		IS 3025 (Part 11) 2022
2	Total Dissolved Solids (TDS)	357	mg/l	IS 3025 (Part 16) 1984
3	Chromium - Hexavalent (as Cr+6)	BDL(MDL:0.05)	mg/l	IS 3025 (Part 52)
4	Nickel (as Ni)	BDL(MDL 0.005)	mg/l	APHA 3125 B By ICP-MS
5	Zinc (as Zn)	BDL(MDL 0.005)	mg/l	APHA 3125 B By ICP-MS
6	Copper (as Cu)	BDL(MDL 0.005)	mg/l	APHA 3125 B By ICP-MS
7	Lead (as Pb)	BDL(MDL 0.005)	mg/l	APHA 3125 B By ICP-MS
8	Iron (as Fe)	0.02	mg/l	APHA 3125 B By ICP-MS
9	Cyanide (as CN)	BDL(MDL 0.005)	mg/l	IS 3025 (Part 27)
10	Color	BDL(MDL:1)	CU	IS 3025 (Part 4)
11	Odour	Agreeable		IS 3025 (Part 5)
12	Arsenic (As)	BDL(MDL 0.005)	mg/l	APHA- 3125 B By ICP-MS
13	Mercury (as Hg)	BDL(MDL 0.0005)	mg/l	APHA- 3125 B By ICP-MS
14	Cadmium (as Cd)	BDL(MDL 0.001)	mg/l	APHA- 3125 B By ICP-MS
15	Phenolic compounds (as C ₆ H ₅ OH)	BDL(MDL:0.0008)	mg/l	IS 3025 (Part 43)
16	Chloride (as Cl)	12	mg/l	IS 3025 (Part 32)
17	Sulphate (as SO ₄)	4	mg/l	IS 3025 (Part 24)
18	Turbidity	BDL(MDL:0.5)	NTU	IS 3025 (Part 10)
19	Nitrate (as NO ₃)	8.3	mg/l	IS 3025 (Part 34)
20	Hardness Total (as CaCO ₃)	225	mg/l	IS 3025 (Part 21)

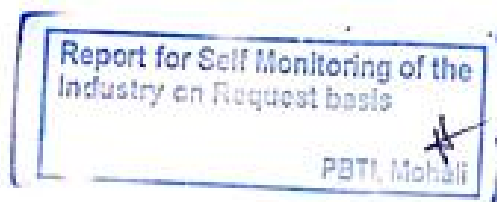
BDL:Below Detection Limit

MDL:Method Detection Limit


27/3/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab





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(Department of Science, Technology & Environment, GoP)

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BIS Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - GoP



No.PBTIENV/170323/001183

1341

Dated : 27/03/2023

ULR : TC611723000000550F

TEST REPORT

Sample Registration No. : PBTI/ENV/170323/001183
Sample code given by customer : STP Plant (Untreated Effluent)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Siaibamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400817243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 12:30pm
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/130323/13, dt. 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Siaibamajri, Kharar.
Name/Nature of sample : Untreated Effluent
Type of Sample : Grab
Point of Sample Collection : Inlet
Condition of the sample on Receipt : Intact coded sample under refrigerated and preserved conditions
Qty/Pkg. : 3.550L approx in plastic and glass bottles
Sampling Method : Sample drawn by PBTi (Mr. Rajat) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 27/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTi, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

Note:

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2. There is no addition, deviation or exclusion from the method mentioned.
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Format No : PBTi/F/7.8/04

Revision No. 00 & 25.04.2019

Page No. 1/2

National Referral Lab for LMO/GMO Detection under Seeds Act 1966 | Referral Lab under Food Safety and Standards Act 2006

C-134, Industrial Focal Point, Phase-VIII, SAS Nagar (Mohali) - 160 071, Punjab, India

Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbtlabs.com, [pbt_dst](#)



Dated :

ULR : TC611723000000550F

Sample Registration No. : PBT/ENV/170323/001103

Sample code given by customer : STP Plant (Untreated Effluent)

Test Results

S.No.	Parameter	Results	Units	Test Method
1	pH	6.82		IS 3025 (Part 11) 2022
2	Total Suspended Solids (TSS)	66.8	mg/l	IS 3025 (Part 17) 2022
3	Total Dissolved Solids (TDS)	786	mg/l	IS 3025 (Part 16) 1984
4	Biochemical Oxygen Demand (BOD ₃ at 27°C)	141	mg/l	IS 3025 (Part 44) 1993
5	Chemical Oxygen Demand (COD) Total	258	mg/l	IS 3025 (Part 58) 2006
6	Oil & Grease	1.6	mg/l	IS 3025 (Part 39) 2021
7	Iron (as Fe)	0.31	mg/l	APHA 3125 B By ICP-MS
8	Chloride (as Cl)	160	mg/l	IS 3025 (Part 32)
9	Sulphate (as SO ₄)	38	mg/l	IS 3025 (Part 24)

[Signature]
27/3/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab

Report for Self Monitoring of the
Industry on Request basis

[Signature]
PBTI, Mohali

Punjab Biotechnology Incubator

(Department of Science, Technology & Environment, GoP)

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Approved | FSSAI Empanelled | EIC Approved | APEDA Approved | PPCB Approved | Notified State Water Lab - GoP | Notified Under EPA - Govt

No.PBTIENV/170323/001184

1242

Dated : 27/03/2023

ULR : TC611723000000551F

TEST REPORT

Sample Registration No. : PBTI/ENV/170323/001184
Sample code given by customer : STP Plant (Treated Effluent)

Issued to:

Mahindra & Mahindra Ltd, Swaraj Division, Foundary
V&PO Sialbamajri, Tehsil Kharar, Mohali

Distt SAS Nagar - 140011
Punjab

SAMPLE PARTICULARS

Your Ref. No. : PO No. 3400617243, dt. 15/12/2022
Date & Time of Sample Collection : 17/03/2023 at 12:00Noon
Date & Time of Sample Receipt in Lab : 17/03/2023 at 5:30pm
Sample Identification No. : PBTI/130323/12, dt. 17.03.2023
Site of Sample Collection : Mahindra & Mahindra Ltd, Swaraj Division- Foundary, V & PO Sialbamajri, Kharar,
Name/Nature of sample : Treated Effluent
Type of Sample : Grab
Point of Sample Collection : Outlet
Condition of the sample on Receipt : Intact coded sample under refrigerated and preserved conditions
Qty/Pkg. : 3.550L approx in plastic and glass bottles
Sampling Method : Sample drawn by PBTI (Mr. Rajat) as per APHA guidelines
Test Start Date : 18/03/2023
Test Completion Date : 27/03/2023

Report for Self Monitoring of the
Industry on Request basis

PBTI, Mohali

Authorized Signatory

Punjab Biotechnology Incubator Lab

Employee Code: 16

- Note:
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Format No : PBTI/F/7.8/06

Revision No. 00 & 25.04.2019

Page No. 1/2

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Phone : +91-172-5020893, 5093595, E-mail : pbt2005@yahoo.com

Website : www.pbttilabs.com, /pbt_dst



Dated :

ULR : TC611723000000551F

Sample Registration No. : PBT/ENV/170323/001184

Sample code given by customer : STP Plant (Treated Effluent)

Test Results

S.No.	Parameter	Requirement as per EPA Rules, 1986 (For use as Irrigation Water)	Results	Units	Test Method
1	pH	5.5 - 9.0	7.51		IS 3025 (Part 11) 2022
2	Total Suspended Solids (TSS)	200 mg/l, Max	18	mg/l	IS 3025 (Part 17) 2022
3	Total Dissolved Solids (TDS)	---	1025	mg/l	IS 3025 (Part 16) 1984
4	Biochemical Oxygen Demand (BOD ₅ at 27°C)	100 mg/l, Max	BDL(MDL:1)	mg/l	IS 3025 (Part 44) 1993
5	Chemical Oxygen Demand (COD) Total	---	49	mg/l	IS 3025 (Part 58) 2006
6	Oil & Grease	10 mg/l, Max	BDL(MDL:1)	mg/l	IS 3025 (Part 39) 2021
7	Iron (as Fe)	---	0.15	mg/l	APHA 3125 B By ICP-MS
8	Chloride (as Cl)	---	175	mg/l	IS 3025 (Part 32)
9	Sulphate (as SO ₄)	---	74	mg/l	IS 3025 (Part 24)

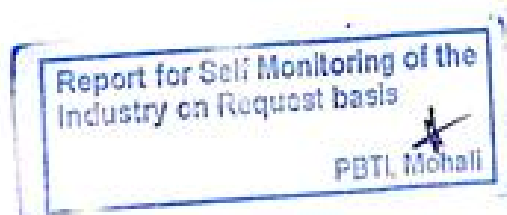
BDL:Below Detection Limit

MDL:Method Detection Limit

[Signature]
27/3/2023

Authorized Signatory

Punjab Biotechnology Incubator Lab



**REPORT
ON
STUDY OF LEACHATES CAUSING ENVIRONMENTAL CONTAMINATION
OF
GROUNDWATER & SOIL QUALITY**

Submitted to



MAHINDRA & MAHINDRA LTD. SWARAJ DIVISION FOUNDRY

Village- Sailba Majri, Tehsil Kharar- Mohali, Punjab (140110), India

Monitored, Analysed & Submitted By



ECO LABORATORIES & CONSULTANTS PVT. LTD.



**An ISO 9001:2015, EMS ISO 14001:2015 & OHSAS 45001:2018
certified Company**

QCI-NABET, MOEF&CC, NABL and PPCB approved Laboratory



**ECO Bhawan, E-207, Industrial Area, Phase VIIIB, Sector-74,
Mohali-160071, Punjab (India)**

Tel: 8872043185, Website: www.ecoparyavaran.org

INTRODUCTION OF THE STUDY

As per the Environment Clearance letter granted (vide letter no. SEIAA/MS./2014/3189, dated 17.10.2014) for the project of M/s Mahindra & Mahindra (P) Ltd., Swaraj Division Foundry located at Village- Sailba Majri, Tehsil Kharar- Mohali, Punjab.

The State Environment Impact Assessment Authority (SEIAA), Punjab has directed strict compliance of terms and conditions including specific and general conditions. According to the specific condition no. ix, it has been conveyed to conduct a regular monitoring of influent and effluent surface, sub-surface and ground water. It shall be ensured that the treated wastewater should meet the norms prescribed by the Punjab Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent.

Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bangalore, PPCB and CPCB. Thus, on the behalf of M/s Mahindra & Mahindra (P) Ltd., Eco Laboratories and Consultants has monitored, analyzed, studied and prepared a report on Leachate study of Swaraj Division Foundry in accordance with MoEF & CC guidelines.

Water Quality of Ground Water at the Project Site



Google earth image of project site (500 m nearby area of project) showing there is no surface water source available in the vicinity of the plant and no critical source of ground water contamination

LEACHATE STUDY

In general leachate is any hazardous liquid that poses negative impacts if it leaks out into environment such as soil and ground water systems. Thus, leachate is a water-based fluid that consists of groups of contaminants of dissolved organic matter, inorganic micro components (cations and anions including sulphate, nitrate, chloride, iron, aluminium, zinc and ammonia), heavy metals (Pb, Ni, Cu and Hg etc.) and xenobiotic organic compound such as halogenated organics (PCBs, dioxins etc.). The leachate can form directly through seepage of hazardous liquids from solid waste dumps, chemical waste storage sites etc. or through runoff falling on such sites. Such sites therefore become potential sources of leachate which can downgrade quality of soil or water or both in terms of chemical characteristics and is of more concern rather than the physical or mechanical aspect. The effect of leachate on mechanical behaviour of contaminated soil is not well established and should be investigated. Contamination of soil by leachate usually concentrates in terms of chemical properties instead of mechanical

modification. The presence of leachate may react differently with soil if compared with typical water. Leachate has different chemical substances that may control its electrical conductivity which subsequently effect the interaction with soil. The mechanical properties of leachate-contaminated soil alter when the results are compared with the uncontaminated soils. The behaviour of soil changes in terms of specific gravity, liquid limit, compressibility, swelling potential and direct shear strength.

Conclusion

This study explored the influence of leachate on the surrounding soil and water quality in foundry industry. Studies have shown, that waste has direct or indirect effects on soil properties. Soil-waste interactions can affect grain size of soil particles, liquid limit, plastic limit, compaction characteristics, and strength properties of soil. The modification of soil properties can lead to various geotechnical problems such as landslides, ground subsidence, erosion, and can effects underground structural stability. The polluted water attacks foundation structures. It affected the workability and durability of concrete when used for mixing concrete. This study indicates that the value of plastic limit, liquid limit and plastic index were decreased with increasing of leachate content. The increasing of leachate content also gives effect to soil shear strength. The value of shear strength decreased when the content of leachate increased. Maximum dry density and optimum moisture content also decrease with the increase of leachate content. Based on this study, the presence of leachate fluid in the soil brings negatives impact to the geotechnical properties of soil.

However, based on findings, most of the parameters analysed were below the permissible limit of IS: 10500 (2012) for drinking water and specification for irrigation indicating that the groundwater was fit for drinking, domestic, and irrigation purposes. The piper diagram employed in the study showed that the leachate and most of the groundwater samples plotted in the same indicating that the no influence of leachate on the ground water quality. All the parameters analysed in the soil were within the normal threshold. In terms of the triple bottom line of sustainability, namely people, planet, and profit, the findings indicate that all the three pillars are safe, thereby no hindrance in sustainable development in around the plant area.

As the Leachate study was conducted with the objective so as to evaluate and identify the possible impacts on ground water and soil quality associated with various process activities of M/s. Mahindra & Mahindra Ltd., Swaraj Foundry Division (Foundry Industry). The outcomes of study reveal that:

- No contamination of chemical contaminants in ground water and soil quality
- No leachability & toxicity of chemical contaminants in ground water and soil quality



CONTRACT OF INSURANCE

INSURED NAME: MAHINDRA AND MAHINDRA LTD




INSURER: IFFCO TOKIO General Insurance Company Limited

Policy Type - Public Liability - Act

Policy Period - (27/06/2021 to 26/06/2022)

Servicing Branch :	Mumbai Commercial SBU
Policy Issuing Office :	IFFCO TOKIO GEN INSU. CO. LTD. IFFCO Bhavan, 5th Floor, 181 Waterfield road, Nr. National College, BANDRA , MAHARASHTR - 400050
Issuing Office GSTIN :	27AAACI7573H1ZC
Corporate Office :	IFFCO TOKIO GEN INSU. CO. LTD. 4th - 5th Floor, IFFCO Towers Plot No 3, Sector 29, GURGAON (HARYANA) - 122001
Policy No :	41061556
Unique Invoice No :	41061556
Invoice Date :	29/06/2021
SAC :	997139
Intermediary Details :	MAHINDRA INSURANCE BROKERS LTD

POLICY SCHEDULE CUM TAX INVOICE

Insured		MAHINDRA AND MAHINDRA LTD	
GSTIN		27AAACM3025E1ZZ	
Address	Akurli Road, Kandivali (e)		
	Mumbai		
	Greater Mumbai (m Corp.) Part		
	India		
	Pin Code	400101	
Place of Supply		MAHARASHTRA	
Business Description		Automobile Manufacturing	
Policy Period		27/06/2021 - 26/06/2022	
Co Insurance Details		NA	
Limit of Liability	Cover		
	50,000,000 per occurrence and 150,000,000 in the aggregate		
Deductible		NA	
Territorial Limits		IND	
Jurisdiction		IND	
Turnover Details		INR 472,240,000,000	
Policy Type		Occurrence Based	
Premium	Premium Excluding Taxes: INR 56,330.40 CESS (0%): INR 0.00 GST - SGST (9%): INR 5,069.74 - UGST (0%): INR 0.00 - CGST (9%): INR 5,069.74 - IGST (0%): INR 0.00 ER Fund Premium: INR 56,330.40 Total Premium / Invoice Value : INR 122,800.40		
GST Related Declarations		Whether GST is Payable on Reverse Charge Basis- No	
Other Terms and Conditions		All Other terms & conditions as per Policy Wordings attached.	
Toll Free: 1-800-103-5499; SMS "claim" to 56161 SAC Code: 9971 Regd. Office: IFFCO SADAN, C1 Distt Centre, Saket, New Delhi -110017 Corporate Identification Number (CIN) U74899DL2000PLC107621, IRDA Reg. No. 106 Consolidated Stamp Duty Deposited as per the order of Government of National Capital Territory of Delhi		For IFFCO-Tokio General Insurance Company Limited	
		<div> Authorized Signatory Regd. Office: IFFCO Sadan C-1 Dist. Centre, Saket, New Delhi-110017 CIN: U74899DL2000PLC107621</div>	

POLICY FORM
(PUBLIC LIABILITY INSURANCE – ACT ONLY POLICY)

1. OPERATIVE CLAUSE

Whereas the Insured Owner, named in the Schedule hereto and carrying on business described in the said Schedule, has applied to IFFCO-TOKIO General Insurance Co. Ltd. (hereinafter called the Company) for the indemnity hereinafter contained and has made a written proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein and has paid the premium and statutory contribution towards the Environment Relief Fund as per the provisions of the Public Liability Insurance Act and the rules framed thereunder.

NOW THIS POLICY WITNESSETH that subject to the terms, exceptions and conditions contained herein or endorsed hereon, the company will indemnify the insured owner against the statutory liability arising out of accidents occurring during the currency of the policy due to handling hazardous substances as provided for in the said act and the rules framed thereunder.

2. DEFINITIONS

- a) "Act" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act, 1991.
- b) "Accident" means an accident involving a fortuitous or sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radio-activity.
- c) "Handling" in relation to any hazardous substance, means the manufacture, processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substance.
- d) "Hazardous Substance" means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986, and exceeding such quantity as may be specified, by notification, by the Central Government.
- e) "Owner" means a person who owns, or has control over handling any hazardous substance at the time of accident and includes:-
 - (i) in the case of a firm, any of its partners;
 - (ii) in the case of an association, any of its members, and
 - (iii) in the case of a company, any of its directors, managers, secretaries or other officers who is directly in-charge of and is responsible to the company for the conduct of the business of the company.
- (f) "Turnover" shall mean –
 - i) Manufacturing units – Annual Gross Sales including all levies and taxes.
 - ii) Godown/warehouse owners – Annual rental receipts.
 - iii) Transport Operators – Annual freight receipts
 - iv) Others – Annual gross receipts

3. EXCLUSIONS

This Policy does not cover liability:

- (1) arising out of willful or intentional non-compliance of any Statutory Provisions.
- (2) in respect of fines, penalties, punitive and/or exemplary damages.
- (3) arising under any other legislation except in so far as is provided for in Section 8 Sub-Section (1) and (2) of the Act.
- (4) arising out of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured's control, care or custody.
- (5) directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection or military or usurped power.

(6) directly or indirectly caused by or contributed to by

- a) ionizing radiations or contamination by radio activity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel.
- b) the radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

4. CONDITIONS

(1) The Insured Owner shall give written notice to the Company as soon as reasonably practicable of any claim made against the Insured Owner or any specific event or circumstance that may give rise to a claim. The Insured shall immediately give to the Company copies of notice of application(s) forwarded by the Collector and all such additional information and or assistance that the Company may require.

(2) No admission, offer, promise or payment shall be made or given by or on behalf of the Insured owner under this policy without the written consent of the Company.

(3) The Company shall not be liable for any claims for relief made after five years from the date of occurrence of the accident.

(4) The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.

(5) If at the time of happening of any accident, resulting in a claim under this policy, there be any other insurance covering the same liability, then the Company shall not be liable to pay or contributes more than its ratable proportion of such liability.

(6) This Policy may be cancelled by the Insured Owner by giving 30 days notice in writing to the Company in which event the Company will retain premium at short period scale subject to there not having occurred an accident during the policy period which may give rise to a claim(s), failing which no refund of premium shall be allowable.

(7) This Policy may also be cancelled by the Insurer by giving 30 days notice in writing to the Insured Owner in which event the Company shall be liable to repay on demand a rateable proportion of the premium for the unexpired term from the date of cancellation.

(8) If the Company shall disclaim liability to the Insured Owner for any claim hereunder and such claim shall not within 12 calendar months from the date of such disclaimer have been made the subject matter of a suit in a competent court of law, then the claim for all practicable purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.

(9) The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported by any person on behalf of the Insured and/or if the insurance has been continued in consequence of any material mis-statement or non-disclosure of any material information by or on behalf of the Insured. In such a case, if the Company pays any amount to the claimant due to any statutory provisions, such amount shall be recoverable from the Insured.

(10) The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or this Policy shall bear such specific meaning.

(11) Any dispute regarding interpretation of the terms, conditions and exceptions of this Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.



SWARAJ DIVISION FOUNDRY GLIMPSES OF SOCIAL WORK ACTIVITIES



Health Initiatives



Cancer Screening Camps at Villages



Eye Check-up Camps

Women Empowerment



Felicitating Women Farmers



Women Involved in Income Generation

Environment Initiatives



Pond Renovation



Tree Plantation

Education Initiatives



Handwash Session for School Children



Roof Rainwater Harvesting in Schools

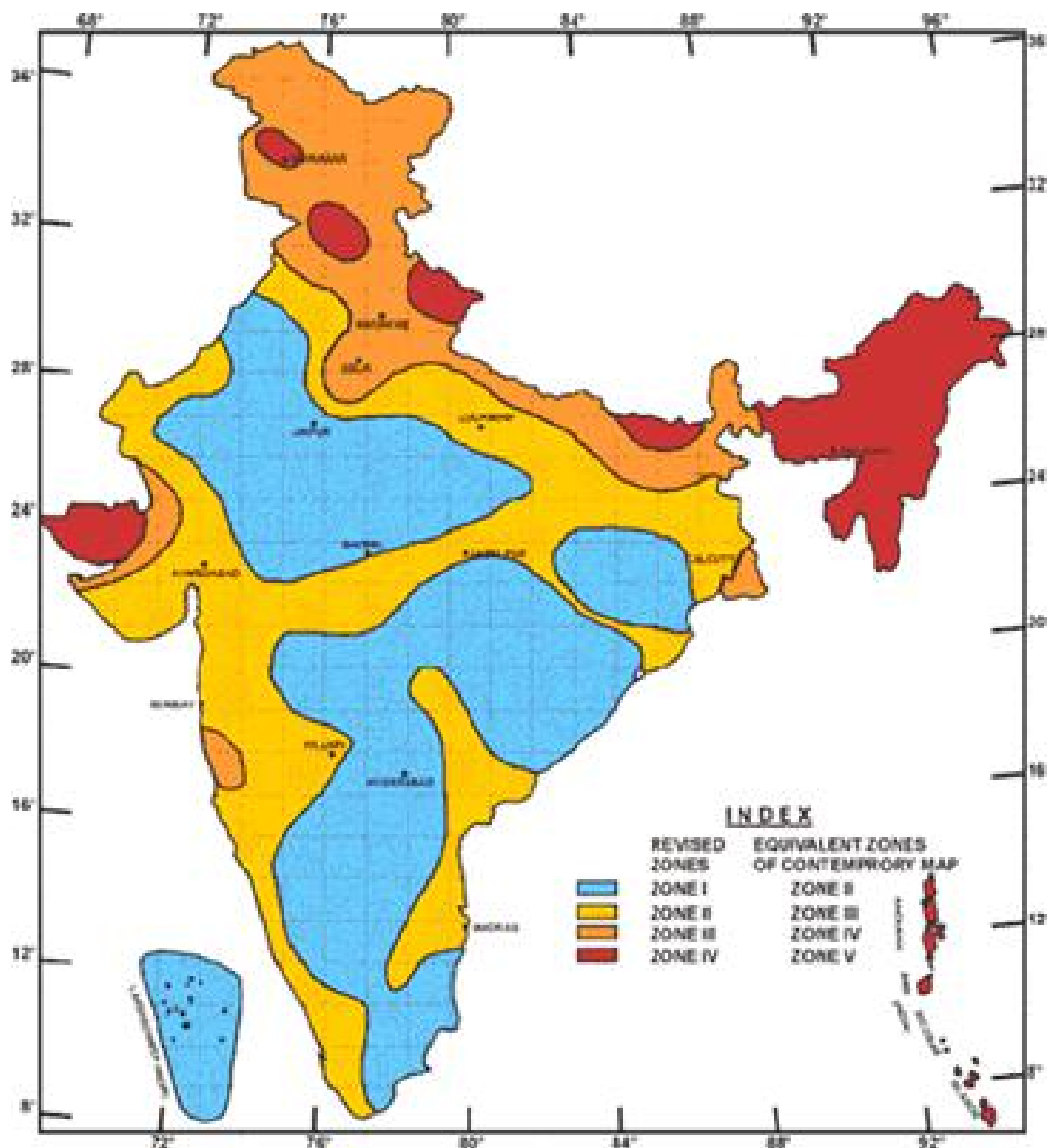


Thanks

SEISMIC HAZARD:

The latest version of seismic zoning map of India given in the earthquake resistant design code of India [IS 1893 (Part 1) 2002] assigns four levels of seismicity for India in terms of zone factors i.e. Zone I to IV. Map of India defining seismic zones is given below.

State of Punjab falls in a region of moderate to high seismic hazard as per the 2002 Bureau of Indian Standards (BIS) map.



Presently, there is no scientific technique available anywhere in the world to predict occurrence of earthquakes with reasonable degree of accuracy with regard to space, time and magnitude. It is, therefore suggested that appropriate steps may be taken to ensure that structures in the region are designed and constructed as per guidelines laid down by Bureau of Indian Standards (BIS) to minimize the losses caused by earthquakes. The choice of seismic factor to be adopted for designing and engineering the structures depends on horizontal ground acceleration and various other factors including type of structures, the ground conditions and also importance of structures. For important and critical structures, site specific spectral studies have to be carried out before assessing the seismic design parameters. Following procedure to be followed during Earthquake:

1. Do not panic: We should patiently thin for a short while and then act accordingly.
2. Switch off the lights & power supply: During an earthquake the building structure may get distorted. This may result into short-circuit there by posing a fire risk.
3. Unsafe places during earthquake: during an earthquake there are certain structure which rarely or lately collapse, hence we should move to open areas or to safer places.

FLOOD HAZARD:

Floods can be such devastating disasters that anyone can be affected at almost anytime. As we have seen, when water falls on the surface of the Earth, it has to go somewhere. A major part of geographical area of the state is prone to floods although substantial part has been protected through flood control measures. Nevertheless, the protected area also faces risk, although in reduced magnitude, because of possibility of flood in case of failure of protection works. Response to Disaster, in the absence of a well-defined plan, would be arbitrary, leading to overemphasis of actions of some actions and absence of other critical actions. A formal plan for managing Disaster is, therefore, necessary. Following procedure to be followed during Flood:

1. Do not Panic: we should patiently think for a short while and then act.
2. The Emergency control Centre will ensue that all are alerted through siren
3. All the emergency outlets points should be immediately opened.
4. Switch off lights and power supply: during flood a short circuit may result in Electrocution/ other hazards power supply should be cut off
5. Move to Safe places: look for a raised grounds or the safe place at a sufficient height in the factory premises.

SWARAJ

Swaraj Division
Mahindra & Mahindra Ltd.
VSIPO Sahib Marg, The Kharar
Ind. SAS Nagar (Mohali)
Punjab 160 055, India

Tel. +91 180 2643025

Regd. Office
Gateway Building, Apollo Bunker
Main Date: 26.11.2022
Old No. 115990N3 119459L0004558

To
The Additional Director
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
Bays Nos. 24-25, Sector 31 A
Dakshin Marg,
Chandigarh – 160030
(Mail ids.: eeccompliance-nro@gov.in and ronz.chd-mef@nic.in)

Subject: Submission of six monthly compliance report for period ending 30.09.2022 for the Project namely "Mahindra & Mahindra Ltd. (FES) -Swaraj Division Foundry" located at Village Majri, Tehsil Kharar, SAS Nagar, Punjab.

Respected Sir,

With reference to the EIA Notification & its amendments regarding submission of six monthly compliance report, we are hereby submitting the six monthly compliance report for period ending 30.09.2022 for the above said project through mail for your perusal.

Kindly acknowledge the receipt of the same.

Thanking you

Sincerely,
For M/s Mahindra & Mahindra Limited (FES) -Swaraj Division Foundry

Aswini
(Authorized Signatory)
Name: Mr. Sanjay Anand
Contact No.: 9881408549
Designation: VP (Mfg.)
Email: anand.swaraj@mahindraswaraj.com



CC:

- ✓ Member Secretary, EIAA Punjab, Directorate of Environment and Climate Change, C/o Punjab State Council for Science & Technology, MGSIPA Complex, Sector 26- Chandigarh-160019. (soft copy through CD)
- Environmental Engineer, The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Mohali, (Punjab). (soft copy through CD).

Aswini

Mahindra
Rise.

SWARAJ

Swaraj Division
Mahindra & Mahindra Ltd.
V/SID Sehta Marg, The Kharar
Post, SAS Nagar (Mohali),
Punjab 160105, India

Tel: +91 160 2643025

Regd Office
Gateway Building, Apollo Bunder
Mumbai Date: 28.11.2022
PIN No. LG5990M11945760045

To
The Additional Director
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
Bays Nos. 24-25, Sector 31 A
Dakshin Marg,
Chandigarh – 160030
(Mail ids.: ecompliance-mro@gov.in and ronz.chd-mef@nic.in)

Subject: Submission of six monthly compliance report for period ending 30.09.2022 for the Project namely "Mahindra & Mahindra Ltd. (FES) -Swaraj Division Foundry" located at Village Majri, Tehsil Kharar, SAS Nagar, Punjab.

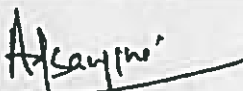
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Sincerely,
For M/s Mahindra & Mahindra Limited (FES) -Swaraj Division Foundry


(Authorized Signatory)
Name: Mr. Sanjiv Anand
Contact No.: 9881408549
Designation: VP (Mfg.)
Email: anand.swaraj@mahindraswaraj.com

CC:

- Member Secretary, EIAA Punjab, Directorate of Environment and Climate Change, C/o Punjab State Council for Science & Technology, MGSIPA Complex, Sector 26- Chandigarh-160019. (soft copy through CD)
- Environmental Engineer, The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Mohali, (Punjab). (soft copy through CD).



Asw

Mahindra
Rise



PUNJAB WATER REGULATION AND DEVELOPMENT AUTHORITY
SCO 149-152, SECTOR 17, CHANDIGARH – 160017

ad-interim PERMISSION FOR EXTRACTION OF GROUNDWATER

Name of Unit:	Mahindra & Mahindra Limited (FES) Swaraj Division (Foundry)		
Activity of Unit:	Industrial		
Address of Unit:	Mahindra & Mahindra Limited (FES) Swaraj Division (Foundry), Village Sialba Majri, SAS Nagar.		PIN Code: 143022
Assessment Unit (Block):	Sialba Majri	Category: Green	
District:	SAS Nagar		
Correspondence Address:	Mahindra & Mahindra Limited (FES) Swaraj Division (Foundry), Village Sialba Majri, SAS Nagar.	PIN Code: 143022	
Unit ID	0950100077		
Permission Number	PWRDA/06/2021/L2/104		Dated: 15.06.2021
Project Status:	Existing Unit		
Permission Type:	ad-interim Permission		
Validity Period:	For a period of three months from the date of publication of the final guidelines by the Authority, or for three years from the date of grant of this ad-interim permission, whichever is earlier.		
Ground Water Extraction Permitted: 250 m ³ /day			
Fresh Water		Saline Water	
m ³ /day	m ³ /month*	m ³ /day	m ³ /month*
250	7,500	-	-

*Note:- Month is taken as 30 days for calculation of charges.

Fees and Charges Paid:

A. Application Fees for Groundwater Extraction:

Volume of Groundwater Extraction Applied For per day (in m ³ /day)	Fees Deposited (in Rs.)
250	16,000/- (20% Covid-19 rebate applied)

B. Advance Deposit equivalent to two months of charges for the permitted quantity of groundwater extraction:

Category of Area	Extraction Permitted: (m ³ /day)			Amount Deposited (Rs.)
Green	Charges for two months			1,45,920/- (20% Covid-19 rebate applied)
	<10 m ³ /day	10-100 m ³ /day	>100 m ³ /day	
	2,400	54,000	1,26,000	

C. Tube-well Registration Fee paid:

No. of existing tube-wells	No. of Proposed tube-wells	No. of total tube-wells	Registration Fee applicable per tube-well	Total Registration Fee Paid (Rs.)
02	Nil	02	10,000/-	16,000/- (20% Covid-19 rebate applied)

D. Total Amount Paid (Rs.):

Application Fee	Advance Deposit	Tube-well Registration Fee	Total (Rs.)
16,000/-	1,45,920/-	16,000/-	1,77,920/-

NOTE: This permission is granted in terms of the Draft Punjab Guidelines for Groundwater Extraction and Conservation published on November 12, 2020 under section 15 of the Punjab Water Resources (Regulation and Management) Act 2020 and is subject to the conditions given overleaf.

Dated: 15th June, 2021
Place: CHANDIGARH




 Signature
 Jobanpreet Singh, A.O.L-2

ad interim PERMISSION CONDITIONS

- 1) The permission is valid for a period of three months from the date of publication of the final guidelines by the Authority, or for three years from the date of grant of this ad interim permission, whichever is earlier. The unit will apply again for Permission within one month after the publication of the final Guidelines.
- 2) Since, this Permission has been issued on the basis of self-assessment by the applicant and without any site inspection or verification of documents submitted by the applicant, hence the Authority may inspect the unit and documents at any time. In case any material difference is found in the information submitted and the site conditions or documents, the Authority may suspend the permission granted immediately and may revoke or modify the permission after giving a notice to the Unit.
- 3) The unit shall comply with the provisions of the Punjab Water Resources (Management and Regulation) Act, 2020, and the Regulations and Directions issued thereunder.
- 4) A Unit operational prior to 12/11/2020 shall be liable to pay groundwater extraction charges w.e.f. 12th Nov, 2020. A unit which is yet to begin operations shall be liable to pay the charges from the date of commencement of extraction of groundwater.
- 5) The unit shall install a water meter at each of its extraction structures within 60 days of issue of this permission letter (Refer Para 7.1 of the Draft Guidelines.)
- 6) Till the installation of water meter the Unit shall pay the full amount for the entire volume of groundwater permitted.
- 7) The Unit shall self-record the water meter readings in the format set by the Authority on the first working day of every month and submit the same and pay the applicable charges to PWRDA by 10th of every month.
- 8) Units permitted to extract 50m³/day or more groundwater shall communicate water level data to PWRDA in the first week of every month. (Refer para 7.2 of the Draft Guidelines)
- 9) This Permission does not absolve the unit of its obligations to obtain other required statutory and administrative clearances from appropriate authorities.
- 10) The issue of this Permission does not imply that other statutory or administrative clearances shall necessarily be granted to the unit by the concerned authorities.
- 11) This Permission is being issued without any prejudice to the directions of any court of law in cases related to groundwater or any other related matters.
- 12) Water conservation credit claims (if any) will be examined and verified separately.
- 13) In view of the Covid-19 epidemic, the Groundwater Charges in the Draft Guidelines will be reduced by 20% till July 31st, 2021.
- 14) Since, the unit has not paid the GST. Hence, it will be bound to deposit the same within 7 days as and when required by the Authority.

X-----X



Products & Services

About

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Annexure 14

ENVIRONMENTAL CLEARANCE



Environmental Clearance
Conditions

Read More →



Environmental Clearance
Compliance

Read More →



Ambient air monitoring

Read More →



(Form rules: 115 G2)

Pollution Under Control Certificate

Authorized By :

Government of Himachal Pradesh

Date : 10/09/2022

Time : 11:50:33 AM

Validity upto : 09/09/2023



Certificate No. : HP07200100004257
 Registration No. : HP00A3426
 Date of Registration : 21/Jun/2010
 Month & Year of Manufacturing : May 2010
 Valid Mobile Number : 9999999999
 Emission Norms : BHARAT STAGE IV
 Fuel : DIESEL
 PUC Code : HP0720010
 GSTIN :
 Fees : Rs.60.00
 (GST to be paid extra as applicable)
 ML observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	1.1

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorized Signature with stamp of PUC operator
mm x 20 mm

