

To,

**The Sub Regional Officer,**

Maharashtra Pollution Control Board,

MIDC Area, CFC Building Mahad.

**Subject: Submission of Half Yearly (Period from Dec'22 to May'23) Compliance report of Environmental Clearance conditions in Hard copy under Compliance of the EIA Notification 2006, Rule No 10(ii).**

**Ref No:** CGL Plant - SEAC-2010/CR.639/TC.2 Dated 8<sup>th</sup> June 2011,

CRM Plant- Ref No: SEAC-2011/CR-969/TC2 Dated 26<sup>th</sup> February 2014,

ACL Plant- Ref No: SEAC-2012/CR-7/TC-2 Dated 5<sup>th</sup> March 2015 by Environment Dept. Maharashtra

**Respected Sir,**

POSCO Maharashtra Steel Pvt. Ltd has been accorded Environmental Clearance for production of Galvanized Coil dated 8<sup>th</sup> June 2011, Cold Rolling Mill project dated 26<sup>th</sup> Feb, 2014 & ACL plant (Electrical Steel) dated 5<sup>th</sup> Mar 2015.

For Compliance under Environmental Clearance conditions, here we are submitting Half Yearly EC-Compliance report of **Period from Dec'22 to May'23** regarding conditions given under **Environmental Clearance** for **CGL, CRM & ACL** plant by SEAC, Environment Department Maharashtra.

This is for your information & consideration under the compliance of Environmental Clearance conditions & under the EIA Notification 2006, rule no 10 (ii).

Thanking You

Yours Truly

**For POSCO Maharashtra Steel Pvt. Ltd.**



**Mr. Atin N. Raut**

AGM- EHS



**Enclosures:**

1. Annexure- I: Analysis reports (Dec'22~May'23), Ambient Air Monitoring as per NAQM notification 2009.
2. Annexure- II: Ack. copy from MPCB regarding regular submission of AAQM & Quarterly Compliance report.
3. Annexure –III: Analysis reports of Ambient & Work zone Noise Level Monitoring as per The EP Act 1986.
4. Annexure- IV: Ack. copy from MPCB for submission of Annual Hz Waste for FY: 2021-2022 Form IV & Intimation of Hz Waste Disposal Details -Form-10 (Comp. under The Hz & Other waste (M & TM) Rule 2016.
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6. Annexure-VI ETP treated water analysis report by MPCB JVS report, Internal & External (MoEF) Lab.
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8. Annexure- VIII: Stack Emission Monitoring Reports as per NAQQM 2009 (Dec,2022 to May, 2023).
9. Annexure- IX: MPCB Star Rating Programme.
10. Annexure- X: Ack. copy of submitted Half Yearly Compliance report on 30<sup>th</sup> November, 2022.
11. Annexure- XI: Environmental Statement (FY: 2021-2022) of Posco-Maharashtra CGL, CRM & ACL respt.
12. Annexure- XII: BSI Certification of Environmental Management System (EMS) - ISO 14001:2015.
13. Annexure- XIII: P-MH selected for "Gold Award" in "14th Exceed Green Future Award 2023" in Environment Preservation category under Steel Sector from "Sustainable Development Foundation" New Delhi.

**CC – The Secretary Environment Dept, Mumbai, The Member Secretary MPCB, Mumbai, The Regional Officer MPCB Raigad Bhavan, The Zonal Officer CPCB-Gujarat, The Regional Officer- Nagpur.**

To,

**The Regional Officer,**

Maharashtra Pollution Control Board,  
Regional Office, Raigad Bhavan, 7<sup>th</sup> Floor, CBD Belapur-400614

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**CC – The Secretary Environment Dept, Mumbai, The Member Secretary MPCB, Mumbai, The Sub regional Officer MPCB Mahad, Raigad, The Zonal Officer CPCB-Gujarat, The Regional Officer- Nagpur.**

PMSPL/EHS-MPCB/EC Com-01/2023

Date: 31<sup>st</sup> May, 2023

To,

**The Member Secretary,**  
Maharashtra Pollution Control Board,  
Kalpataru Point Sion , Mumbai (E)- 400022.

**Subject: Submission of Half Yearly (Period from Dec'22 to May'23) Compliance report of Environmental Clearance conditions in Hard copy under Compliance of the EIA Notification 2006, Rule No 10(ii).**

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AGM- EHS  


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**CC – The Secretary Environment Dept, Mumbai, The Regional Officer MPCB Raigad Bhavan, The Sub regional Officer MPCB Mahad, Raigad, The Zonal Officer CPCB-Gujarat, The Regional Officer- Nagpur.**

To,

**The Secretary**

**Environment Department**

15<sup>th</sup> Floor, New Administrative Building,  
Madam Cama Road, Mumbai – 400 032

**Subject: Submission of Half Yearly (Period from Dec'22 to May'23) Compliance report of Environmental Clearance conditions in Hard copy under Compliance of the EIA Notification 2006, Rule No 10(ii).**

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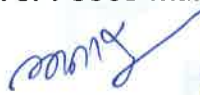
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**CC – The Member Secretary MPCB , Mumbai , The Regional Officer MPCB Raigad Bhavan , The Sub regional Officer MPCB Mahad, Raigad, The Regional Officer- Nagpur, The Zonal Officer CPCB-Gujarat.**

To,

**The Regional Officer**

Ministry of Environment, Forest and Climate Change  
Regional office (West- Central Zone)  
Ground Floor, East Wing, New Secretariat Building Civil Lines,  
Nagpur 440001, (Maharashtra)

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**MPCB Raigad Bhavan, The Sub regional Officer MPCB Mahad, Raigad, The Zonal Officer CPCB-Gujarat.**

POSCO Maharashtra Steel Pvt. Ltd.

Corporate Office: 7th Floor, World Trade Center-1, Kharadi, Pune-411 014, Maharashtra, India.

Head Office: Plot No. C-1, Vile-Bhagad, MIDC Industrial Area, Tal: Mangaon,

Dist: Raigad - 402 308, Maharashtra, INDIA

To,

**The Zonal Officer,**

Parivesh Bhavan, Opp.VNC Word Office No-10  
Subhanpura, Vadodara (Gujrat) 390023

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## **CGL Plant - HALF YEARLY COMPLIANCE REPORT**

**Six Monthly Compliance report (Period: Dec, 2022 to May, 2023) - Environmental Clearance Conditions- CGL Plant**

**Reference - No: SEAC-2010/CR.639/TC.2 Dated 8<sup>th</sup> June 2011 by Environment Department Maharashtra. Category – 3(a) & 8(a).**

The Compliances of Environment Clearance conditions are as follows-

<b>Sr.No</b>	<b>Compliance Condition</b>	<b>Compliance Status</b>
i	This Environmental Clearance issued subject to Land use verification. Local / planning authority should ensure this with request to rules, regulations, and notifications.	Industry located in MIDC Vile Bhagad, Tal- Mangaon , Dist- Raigad, Maharashtra, 402308
ii	Obtain Consent to Establish & Operate from Maharashtra Pollution Control Board under Air & Water Act.	Complied <ul style="list-style-type: none"> <li>Consent to Establish received from MPCB Consent No – BO/PCI-II/EIC No.RD-1421 -10 /E/CC-128 Date – 11/03/2010.</li> <li>Obtained renewal of Consent to Operate from MPCB <b>Format - 1.0/UAN No: 0000128520/ CR/2204000648, Date- 12.04.2022, Valid till: 28.02.2027.</b></li> </ul>
iii	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Complied <ul style="list-style-type: none"> <li>Land development work started after getting EC &amp; CTE respectively.</li> </ul>
iv	No addition land shall be used/ acquired for any activity of the project without obtaining due clearance from respective authority	Complied <ul style="list-style-type: none"> <li>No additional land used &amp; acquired for project. Only MIDC acquired plot is used.</li> </ul>
v	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in the plant shall be ensured.	Complied Following measures taken to control fugitive emissions : <ul style="list-style-type: none"> <li>Developed land in segments to avoid disturbance of top soil layer &amp; to prevent dust spreading due to wind.</li> <li>Green belt development started around periphery of plant area.</li> <li>Water sprinkling system undertaken.</li> <li>Internal roads paved.</li> </ul>
vi	Regular Monitoring of the Air Quality, including SPM,SO <sub>2</sub> levels both in work zone and Ambient Air shall be carried out & maintain record & submit record accordingly to MPCB.	Complied <ul style="list-style-type: none"> <li>* <b>Annexure - I</b> Fortnightly Ambient Air Quality Monitoring reports with Summary results (Dec, 2022 to May, 2023)</li> <li>* <b>Annexure - II</b> Acknowledgement copy from MPCB for submission of AAQM Monitoring reports by MoEF approved laboratory. (Dec, 2022 to May, 2023).</li> </ul>
vii	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Noted Provided Rain Water Harvesting system for use of rain water for cooling tower makeup.
viii	Arrangement shall be made that waste water & storm water do not get mixed	Complied <ul style="list-style-type: none"> <li>Separate storm water drain provided.</li> <li>Industrial Waste water and sewage are conveyed to ETP by pipes inside plant shed.</li> </ul>

		<ul style="list-style-type: none"> <li>There is no possibility of mixing storm water.</li> </ul>
ix	Periodical monitoring of ground water	Complied
x	To maintain noise level as per standard & provide all required PPE to workers.	<p>Complied.</p> <ul style="list-style-type: none"> <li>* <b>Annexure- III</b> Ambient Noise Level Monitoring as per The Environment Protection Act 1986 (Dec'22 to May'23).</li> <li>Regular Workplace Noise Level Monitoring done as per The Factories Act 1948 (Dec'22 to May'23).</li> <li>We shall monitor Noise Level through MoEF recognized lab &amp; ensure it is maintained as per EP Act standard.</li> <li>Ear plugs, Ear muffs will be provided to all workers for protecting them from Noise.</li> </ul>
xi	The overall Noise level in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all noise generation sources. The Ambient Noise Levels shall confirm to the standards prescribed under Environment Protection act 1986.	<p>Complied</p> <ul style="list-style-type: none"> <li>DG set provided meeting CPCB requirement &amp; all possible measures taken to control Noise Level. Regular monitoring shall be done through MoEFCC approved Laboratory to ensure Ambient Noise is within EP Act Standards.</li> <li>* <b>Annexure III</b> Ambient Noise Level Monitoring reports. (Dec'22 to May'23).</li> </ul>
xii	Green Belt shall be developed & maintained around the plant periphery. Considering CPCB guidelines for selection of species of plant.	<p>Complied</p> <ul style="list-style-type: none"> <li>Green Belt Development done and will continue for further nourishment. Water sprinkler system provided for irrigation of Green Belt Area.</li> <li>We have entered into Horticulture contract &amp; employed local manpower in Horticulture for local employment.</li> <li><b>Monsoon Tree Plantation –</b> Planted <b>950 Nos.</b> New Trees in the month of June &amp; July 2022.</li> <li>Plan to plant 1000 Nos. trees in Jun~July'23.</li> </ul>
xiii	Adequate Safety measurers shall be provided to limit the risk zone within the plant boundary. Leak detection devices shall also be installed at strategic places for early detection & warning	<p>Complied</p> <ul style="list-style-type: none"> <li>Automatic Beam type protection system and Smoke detectors provided for early detection of fire.</li> <li>Emergency siren provided to give alarm for emergency situation.</li> <li>Advance communication system such as Wally talky, telephone etc made.</li> <li>Mock drills &amp; training given to Employee's</li> </ul>



xiv	Occupational Health Surveillance of the worker shall be done on a regular basis and record maintained as per factories act.	<p>Complied</p> <ul style="list-style-type: none"> <li>Established Occupational Health Center as per The Factories Act and 24hrs operational. Pre-employment medical checkup for all staff &amp; worker's done.</li> <li>Ambulance Vehicle available on site 24 hrs.</li> <li>Pre-employment Medical checkup done as &amp; when required. <b>Yearly Medical Health checkup of all employee done</b> &amp; will continue as per schedule.</li> <li>Form No-6 (Fitness certificate) &amp; Form No-7 (Health register) have maintained &amp; will produce to Factory Inspector (as &amp; when required).</li> </ul>
xv	The company shall make the arrangement for protection possible fire hazards during manufacturing process during material handling.	<p>Complied</p> <ul style="list-style-type: none"> <li>Full Fledge Fire Hydrant System &amp; Fire Sprinkler system network provided.</li> <li>Provided various types of Portable fire extinguishers.</li> <li>Fire Alarm &amp; detection system has been provided.</li> </ul>
xvi	Strictly comply with the Rules & regulations with regard to handling & disposal of hazardous wastes in accordance with the Hazardous waste (Management, Handling & Transboundary) Rules 2010. Authorization from the MPCB shall be obtained for collection /treatment/storage/ disposal of hazardous waste	<p>Complied</p> <ul style="list-style-type: none"> <li>Regular disposal of hazardous waste to CHWTSDF &amp; MPCB Authorized parties.</li> <li>Regular online submission of Manifest for Hazardous And Other Waste Form-10 to MPCB for compliance of The Hazardous &amp; other waste (M &amp; H) Rules 2016.</li> <li>Financial Year 2021-2022– <b>Form IV</b> submitted on MPCB Portal dated <b>29/06/2022</b>.</li> <li>* <b>Annexure-IV:</b> Acknowledgement copy of Form-IV, FY:2021-22 &amp; regular submission of Hazardous waste disposal Form-10 to MPCB SRO office-Mahad (Period Dec'22~May'23).</li> <li><b>Annexure -V:</b> We had taken <b>Lifetime Membership</b> from Mumbai Waste Management Ltd Talaja (CHWTSDF) for disposal of Hazardous waste (<b>Membership No – MWML HZW-MHD-3180</b>). <b>Validity:31/03/2024.</b>(On Yearly Basis)</li> </ul>
xvii	Shall undertake following Waste minimization measurers – Metering of quantities of active ingredients to minimize waste, reuse, maximizing recoveries, use of automated material transfer system.	<p>Complied</p> <ul style="list-style-type: none"> <li>Company has provided Automatic Chemical dosing system to ensure minimum generation of waste. All material transfer system is automated. Loading pumps, dosing pumps.</li> <li><b>DCS Operation system (HMIS System – Human machine interface)</b> for high quality of product &amp; to avoid excess use of chemicals.</li> <li>Optimization of chemical consumption, waste water generation for reduction in generation of hazardous waste.</li> </ul>
xviii	Regular Mock drill on onsite emergency management plan shall be carried out	<p>Complied</p> <ul style="list-style-type: none"> <li>On-site Emergency Plan prepared. Regular mock drills &amp; safety trainings (on various</li> </ul>

		<p>topics) have been carried out and will continue as per training plan.</p> <ul style="list-style-type: none"> <li>• Mock drill carried out as per annual safety plan.</li> </ul>
xix	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguard.	<p>Complied</p> <ul style="list-style-type: none"> <li>• Company had established EHS department, in which Environment Managers &amp; Environment chemists for Environmental testing are appointed. Also, in house water &amp; waste water analysis facility provided to monitor ETP performance.</li> <li>* <b>Annexure – VI:</b> Effluent water testing report by MPCB JVS Report. In-house laboratory Internal and external MoEF approved Laboratory (Dec, 2022 to May, 2023).</li> </ul>
xx	Transportation of ash will be through closed containers and all measurers should be taken to prevent spilling of the ash	<p>Not applicable</p> <p>Company will use <b>Piped Natural Gas</b> for fuel source. There is no generation of ash.</p>
xxi	Separate funds shall be allocated for implementation of Environmental protection measure /EMP along with item wise breakup.	<p>Complied. Funds spent so far :</p> <ul style="list-style-type: none"> <li>• Integrated ETP: Rs 20 Crore.</li> <li>• Air Pollution Control: Rs 5 Crore.</li> <li>• Effluent lab : 1.5 Crore.</li> <li>• Occupational Health Centre: 39.6 Lack (Six month operation cost)/ Capital cost -1 crore +</li> <li>• Safety Equipment : 10 Crore.</li> <li>• Environmental monitoring- 8 Lacks.</li> <li>• Monthly Env Operation cost- Approx 20 Lack.</li> <li>• Horticulture Expenses- Monthly 13 Lacks.</li> </ul>
xxii	Advertise at least in two local newspapers widely circulated in the region around the project , informing that the project has accorded Environmental Clearance & copies are available at MPCB & website <a href="http://envis.maharashtra.gov.in">http://envis.maharashtra.gov.in</a>	<p>Complied.</p> <ul style="list-style-type: none"> <li>• Advertise given in two newspapers dated 4<sup>th</sup> July 2011 – Mumbai Sakal (for Marathi Language) &amp; in DNA (for English Language)</li> <li>* <b>Annexure-VII:</b> Published copy of Advertise dated 4<sup>th</sup> July 2011.</li> </ul>
xxiii	The criteria Pollutant levels namely SPM, RSPM, SO <sub>2</sub> ,NOX(ambient levels as well as stack emission) shall be monitored & displayed at a convenient location near the main gate of the company in public domain	<p>Complied</p> <ul style="list-style-type: none"> <li>• Ambient Air Monitoring done as per NAAQS standards.</li> <li>• Regular Stack Monitoring done as per annual Environmental Monitoring Plan.</li> <li>• Display board has been provided at near to main gate &amp; outside main gate.</li> <li>• Provided three AAQM monitoring stations for monitoring of Ambient Air Quality.</li> <li>* <b>Annexure- VIII:</b> Stack Emission Monitoring Reports as per NAQQM 2009 (Dec,2022 to May, 2023).</li> <li>* <b>Annexure- IX: MPCB Awarded Five Star Rating for Stack TPM Emission in Star Rating Programme.</b></li> </ul>
xxiv	Project Management should submit half yearly compliance report in respect of the stipulated prior Environmental Clearance terms & conditions in hard & soft copies to the MPCB & This department on 1 <sup>st</sup> June &	<p>Complied</p> <ul style="list-style-type: none"> <li>• <b>Report submitted on 30/11/2022</b> to Environment department Maharashtra MPCB, RO MoEFCC Nagpur &amp; ZO CPCB.</li> </ul>

	1 <sup>st</sup> December of each calendar year	* <b>Annexure - X:</b> Acknowledgement copy of submission of Half Yearly Compliance report. (Period from Jun, 2022 to Nov, 2022).
xxv	A copy of the clearance letter shall be sent by proponent to the concern municipal corporation & 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.	NA <ul style="list-style-type: none"> <li>• Project situated in notified At-Vile, Post-Bhagad MIDC, no Municipal corporation nearby.</li> <li>• No suggestion received from any Local NGO, interested party during process of clearance.</li> <li>• Noted.</li> </ul>
xxvi, xxvii	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including result of monitoring data hard copies & soft copies.	Complied on dated 01/11/2021. <b>Annexure - X:</b> Acknowledgement copy of Half Yearly Compliance report. (Jun, 2022 to Nov, 2022) submitted to MPCB on dated 30/11/2022.
xxviii	The Environment Statement for each Financial year ending 31 <sup>st</sup> March in form V is mandatory to submit it to MPCB.	Complied <ul style="list-style-type: none"> <li>• <b>Annexure - XI:</b> <b>Form-V</b> Environmental statement (<b>Financial Year 2021-2022</b>) submitted to MPCB online on dated 29/09/2022.</li> </ul>
xxix	BSI Certification of Registration: Environmental Management System (EMS) - ISO 14001:2015. Posco Maharashtra Operates an Environmental Management System (EMS) which complies with the requirements of ISO 14001:2015 for the following scope: The Manufacture of Hot Dip Galvanizing (GI), Galvannealing (GA), Cold Rolled Continuous Annealed (CRCA), Cold Rolled Full Hard (CRFH), Cold Rolled Non-Grain Oriented (CRNO-Semi-Processed & Fully Processed), Hot Rolled, Pickled and Oiled (HRPO) Steel Coils.	<ul style="list-style-type: none"> <li>• <b>Annexure - XII:</b> Posco Maharashtra Holds <b>BSI Certification No.: EMS 687870.</b></li> <li>• Environmental Management System (EMS) - ISO 14001:2015.</li> <li>• <b><u>BSI Certification of Certification:</u></b> Effective Date: 2021-02-24 Expiry Date: 2024-02-23</li> </ul>

Thanking You

Yours Truly

**For POSCO Maharashtra Steel Pvt. Ltd.**




**Mr. Atin N. Raut**  
AGM- EHS

## CRM Plant- HALF YEARLY COMPLIANCE REPORT

Six Monthly Compliance report (Period: Dec, 2022 to May, 2023) on Environmental Clearance conditions (Cold Rolling Mill Plant)

Ref No: SEAC-2011/CR-969/TC2 Dated 26<sup>th</sup> February 2014 by Environment Department Maharashtra. Category – 3(a) & 8 (b) B1

The Compliances of Environment Clearance conditions are as follows-

Sr.No	Compliance condition	Compliance status
i	This Environmental Clearance issued subject to Land use verification. Local / planning authority should ensure this with request to rules, regulations, and notifications.	Industry located in MIDC Vile Bhagad, Tal-Mangaon , Dist- Raigad, Maharashtra, 402308
ii	Obtain Consent to Establish & Operate from Maharashtra Pollution Control Board under Air & Water Act.	Complied <ul style="list-style-type: none"> <li>• Consent to Establish received from MPCB Consent No – BO/PCI-II/EIC No.RD-1421 -10 /E/CC-128 Date – 11/03/2010.</li> <li>• Obtained renewal of Consent to Operate from MPCB No- 1.0/BO/CAC-Cell/ Autorenewal/ UAN No:-0000047766-18/CAC-1806000029, date- 01/06/2018.</li> </ul>
iii	No addition land shall be used/ acquired for any activity of the project without obtaining proper permission.	Yes- Complied <ul style="list-style-type: none"> <li>• No additional land used &amp; acquired from project. Only used acquired plot from MIDC.</li> </ul>
iv	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in the plant shall be ensured.	Yes- Complied <ul style="list-style-type: none"> <li>• For controlling fugitive emission development of green belt around periphery of plant area for to control fugitive emission.</li> <li>• Also started sprinkling water in to dust area, internal roads for to prevent natural &amp; fugitive emission.</li> </ul>
v	Regular Monitoring of the Air Quality, including SPM,SO <sub>2</sub> levels both in work zone and Ambient Air shall be carried out & maintain record & submit record accordingly to MPCB.	Yes- Complied <ul style="list-style-type: none"> <li>* <b>Annexure-I</b> Fortnightly Ambient Air Monitoring reports with Summary results (Period: Dec,2022 to May, 2023).</li> <li>* <b>Annexure –II</b> Acknowledgement copy from MPCB for submission of AAQM monitoring reports by MoEFCC approved Laboratory. results (Period: Dec,2022 to May, 2023).</li> </ul>
vi	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	Yes- Complied. <ul style="list-style-type: none"> <li>• Furnace area ventilation is provided. Regarding safety all furnace operation is on SCDA system and various safety interlocks have been provided for safe operation of furnace. Competent supervision.</li> <li>• Provided online leak detection devices for to identify gas leakage.</li> </ul>
vii	Proper Housekeeping programmes shall be implemented.	Yes- complied; <ul style="list-style-type: none"> <li>• We have separated housekeeping team managed by competent &amp; designated personnel (<b>Separate Agency</b>). Also we have implemented 5S, QSS &amp; with my machine &amp; safety system (MMS).</li> </ul>

viii	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Yes- Complied , <ul style="list-style-type: none"> <li>In case of failure of any pollution control system such as scrubbers, ID fans, exhaust fan, process will stop accordingly.</li> <li>An emergency power supply has given to critical equipments.</li> </ul>
ix	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable)	Yes- Complied <ul style="list-style-type: none"> <li>30 meter height stack installed for 2000 KVA DG set.</li> </ul>
x	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Noted Provided rain water harvesting system for use of rain water for cooling tower makeup.
xi	Arrangement shall be made that waste water & storm water do not get mixed	Yes- Complied <ul style="list-style-type: none"> <li>Separate storm water drain provided. Waste water having separate piping system to ETP</li> <li>Close tank collection system inside plant shed due to this there is no possibility of mixing storm water</li> </ul>
xii	Periodical monitoring of ground water	Yes- Complied
xiii	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Complied <ul style="list-style-type: none"> <li>We are regularly monitoring Noise Level &amp; it is maintained as per Noise standard.</li> <li>Ear plugs, ear muffs have provided to all workers for protecting them from high noise.</li> </ul>
xiv	The overall Noise level in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all noise generation sources. The ambient noise levels shall conform to the standards prescribed under Environment Protection act 1986	Yes- Complied <ul style="list-style-type: none"> <li>DG set provided as per guidelines given by CPCB &amp; taken all possible measures to control Noise Level.</li> <li>Regular Monitoring done for Noise Level through MoEF approved Laboratory.</li> <li>* <b>Annexure III</b> - Copy of Ambient Noise Level Monitoring results (Period: Dec'22 to May'23).</li> </ul>
xv	Green Belt shall be developed & maintained around the plant periphery. Considering CPCB guidelines for selection of species of plant.	Yes – Completed <ul style="list-style-type: none"> <li>Green Belt Development done and will continue for further nourishment. Water sprinkler system provided for irrigation of green belt area.</li> <li>We have entered into Horticulture contract &amp; employed local manpower in horticulture for local employment. Also aim to provide local plant species for further plantation.</li> <li><b>Monsoon Tree Plantation:</b> Planted <b>950 Nos.</b> New Trees in the month of June &amp; July 2022.</li> <li>Plan to plant 1000 Nos. trees in Jun~July'23.</li> </ul>
xvi	Adequate safety measures shall be provided to limit the risk zone within the plant boundary. Leak detection devices shall also be installed at strategic places for early detection & warning	Yes- Complied <ul style="list-style-type: none"> <li>Adequate safety measures shall taken for protection of plant, which include high class automation system, no manual operations,</li> <li>Various safety interlocks in operating process.</li> <li>We have provided adequate fire alarm,</li> </ul>

		<p>detection &amp; Fire protection system as per provisional fire NOC issued by Fire department</p> <ul style="list-style-type: none"> <li>• Communication system such as Walky talky, telephone etc.</li> </ul>
xvii	Occupational health surveillance of the worker shall be done on a regular basis and record maintained as per factories act.	<p>Yes -Complied</p> <ul style="list-style-type: none"> <li>• Established Occupational health center as per The Factories Act, 1948. Pre-employment Medical checkup done as &amp; when required. Yearly medical checkup of employee done &amp; will continue as per schedule.</li> <li>• Form No-6 (fitness certificate) &amp; Form No-7 (Health register) have maintained.</li> </ul>
xviii	The company shall make the arrangement for protection possible fire hazards during manufacturing process during material handling	<p>Yes-Complied</p> <ul style="list-style-type: none"> <li>• Full flag Fire hydrant system&amp; Fire Sprinkler system network work.</li> <li>• Provided various types of Portable fire extinguishers</li> <li>• Fire alarm &amp; detection system has been provided</li> </ul>
xix	Strictly comply with the rules & regulations with regard to handling & disposal of hazardous wastes in accordance with the Hazardous waste (Management, handling &Transboundary) rules 2010. Authorization from the MPCB shall be obtained for collection /treatment/storage/disposal of hazardous waste	<p>Yes- Complied</p> <ul style="list-style-type: none"> <li>• Regular disposal of hazardous waste to CHWTSDF &amp; MPCB Authorized parties.</li> <li>• Regular online submission of Manifest for Hazardous And Other Waste Form-10 to MPCB for compliance of The Hazardous &amp; other waste (M &amp; H) Rules 2016.</li> <li>• Financial Year 2021-2022– <b>Form IV</b> submitted on MPCB Portal dated <b>29/06/2022</b>.</li> <li>* <b>Annexure-IV:</b> Acknowledgement copy of Form-IV,FY:2021-22 &amp; regular submission of Hazardous waste disposal Form-10 to MPCB SRO office-Mahad (Dec, 2022 to May, 2023).</li> <li>• <b>Annexure -V:</b> We had taken <b>Lifetime Membership</b> from Mumbai Waste Management Ltd Taloja (CHWTSDF) for disposal of Hazardous waste (<b>Membership No – MWML HZW-MHD-3180</b>). <b>Validity:31/03/2024.</b>(On Yearly Basis)</li> </ul>
xx	Shall undertake following waste minimization measurers – Metering of quantities of active ingredients to minimize waste, reuse, maximizing recoveries, use of automated material transfer system to minimize spillage.	<p>Yes – Noted.</p> <ul style="list-style-type: none"> <li>• Automatic chemical dosing system for to maintain minimum generation of waste.</li> <li>• All material transfer system are providing automation, loading pumps, dosing pumps &amp; having <b>DCS Operation system (HMIS System – Human machine interface)</b> for high quality of result of operation &amp; to avoid excess use of chemicals, leads to generate hazardous waste.</li> <li>• Installed additional 7 KL buffer tank for storage of concentrated waste acid from Ventury &amp; separator during emergency shutdown at ARP plant to avoid mixing it in waste water to reduce load on WWTP &amp; saving of NaOH.</li> </ul>

xxi	Regular Mock drill on onsite emergency management plan shall be carried out	Yes- Complied
xxii	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguard.	Yes- Complied <ul style="list-style-type: none"> <li>• Company had Establish EHS department, in which appointed competent Environment Manager &amp; Environment chemist for Environmental Testing, &amp; for to control stipulated environmental safeguard.</li> <li>• Provision of in house water &amp; waste water analysis facility for to measure consent parameters. Establishment of laboratory has completed.</li> <li>• Contract with external MoEF approved laboratory for required Environmental sampling &amp; testing.[Comply as per MPCB CTO Conditins].</li> </ul>
xxiii	Transportation of ash will be through closed containers and all measurers should be taken to prevent spilling of the ash.	Not applicable <ul style="list-style-type: none"> <li>• Company will be use <b>Natural Gas for fuel</b> source. There is no generation of ash.</li> </ul>
xxiv	Separate silos will be provided for collecting and storing bottom ash & fly ash.	Not applicable
xxv	Separate funds shall be allocated for implementation of Environmental protection measure /EMP along with item wise breakup.	Yes- Complied Separate fund allocated for implementation of Environment protection measures.
xxvi	Advertise at least in two local newspapers widely circulated in the region around the project , informing that the project has accorded environmental clearance & copies are available at MPCB & website <a href="http://envis.maharashtra.gov.in">http://envis.maharashtra.gov.in</a>	Yes Complied Advertise given in Local newspaper – Mumbai Sakal (for Marathi Language) & In DNA (for English Language) * Annexure-VII A- published copy of advertise dated 14 <sup>th</sup> March 2014
xxvii	The criteria pollutant levels namely SPM, RSPM, SO2.NOX(ambient levels as well as stack emission) shall be monitored & displayed at a convenient location near the main gate of the company in public domain	Complied <ul style="list-style-type: none"> <li>• Ambient Air Quality Monitoring done as per NAQM standards &amp; reports are submitted to MPCB.</li> <li>• Regular stack monitoring has been carried out &amp; also displayed monitoring results on main gate board.</li> <li>* <b>Annexure I</b> Reports of Ambient Air Quality Monitoring through MoEFCC approved Laboratory. (Period: Dec, 2022 to May, 2023).</li> </ul>
xxviii	Project management should submit half yearly compliance report in respect of the stipulated prior environmental clearance terms & conditions in hard & soft copies to the MPCB & This department on 1 <sup>st</sup> June& 1 <sup>st</sup> December of each calendar year	Complied <ul style="list-style-type: none"> <li>• Compliance report has been submitted to Environment department &amp; MPCB, dated 30/11/2022.</li> <li>* <b>Annexure X</b> Acknowledgement copy of Half Yearly Compliance report. (Jun, 2022 to Nov, 2022) submitted to MPCB on 30.11.2022.</li> </ul>

xxix	A copy of the clearance letter shall be sent by proponent to the concern municipal corporation & the local NGO, if any, from whom suggestions / representations. If any, were received while processing the proposal.  The clearance letter shall also be put on the website of the company by the proponent.	Yes –Noted <ul style="list-style-type: none"> <li>Project situated in Mangaon MIDC Industrial area, nearby no Municipal corporation. No suggestion received from any Local NGO, interested party during processing of clearance.</li> <li>Noted</li> </ul>
xxx	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including result of monitoring data hard copies & soft copies to regional office of MoEF, SPCB & MPCB	Complied <ul style="list-style-type: none"> <li><b>Annexure X</b> Acknowledgement copy of Half Yearly Compliance Report submitted to MPCB on dated 30.11.2022.</li> </ul>
xxxi	The Environment Statement for each financial year ending 31 <sup>st</sup> march in form V is mandatory to submit it to MPCB.	Complied <ul style="list-style-type: none"> <li><b>Annexure XI:</b></li> <li><b>Form-V</b> Environmental Statement (Financial Year 2021-2022) submitted to MPCB online on dated 29/09/2022.</li> </ul>
xxix	BSI Certification of Registration: Environmental Management System (EMS) - ISO 14001:2015. Posco Maharashtra Operates an Environmental Management System (EMS) which complies with the requirements of ISO 14001:2015 for the following scope: The Manufacture of Hot Dip Galvanizing (GI), Galvannealing (GA), Cold Rolled Continuous Annealed (CRCA), Cold Rolled Full Hard (CRFH), Cold Rolled Non-Grain Oriented (CRNO-Semi-Processed & Fully Processed), Hot Rolled, Pickled and Oiled (HRPO) Steel Coils.	<ul style="list-style-type: none"> <li><b>Annexure - XII:</b> Posco Maharashtra Holds <b>BSI Certification No.: EMS 687870.</b></li> <li>Environmental Management System (EMS) - ISO 14001:2015.</li> <li><b>BSI Certification of Certification:</b> Effective Date: 2021-02-24 Expiry Date: 2024-02-23</li> </ul>

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**For POSCO Maharashtra Steel Pvt. Ltd.**



**Mr. Atin N. Raut**  
AGM- EHS





## **ACL Plant - HALF YEARLY COMPLIANCE REPORT**

Six Monthly Compliance report (Period: Dec 2022 to May 2023) on Environmental Clearance conditions -ACL Plant.

Ref No: SEAC-2012/CR-7/TC-2 Dated 5<sup>th</sup> March 2015 by Environment Department Maharashtra. Category – 8(a) B2.

The Compliances of general conditions for Post- Construction / Operation phase are as follows-

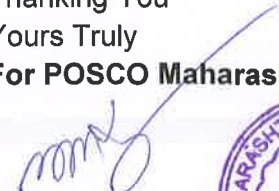
Sr.No	General Condition	Compliance status
I	This Environmental Clearance issued subject to Land use verification. Local / planning authority should ensure this with request to rules, regulations, and notifications.	Industry located in MIDC Vile Bhagad, Tal-Mangaon , Dist- Raigad, Maharashtra, 402308.
II	Obtain Consent to Establish & Operate from Maharashtra Pollution Control Board under Air & Water Act. Prior certification from appropriate authority shall be obtained.	<b>Complied.</b> <ul style="list-style-type: none"> <li>• Consent to Establish received from MPCB Consent No – BO/PCI-II/EIC No.RD-1421 -10 /E/CC-128 Date – 11/03/2010.</li> <li>• Obtained renewal of Consent to Operate from MPCB No- MPCB CTO – 1.0/ BO/CAC-Cell/ UAN No:-92026-20/Auto renewal CAC-2006000453, date- 10/06/2020, Valid till: 30.06.2025.</li> </ul>
III	Project Proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the building. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging into sewer line. No physical occupation or allotment will be given unless all above said environment infrastructure is installed and made functional including water req. in para 2.	<ul style="list-style-type: none"> <li>• Provision of full flaged ETP comprehensive treatment system of capacity -3060 CMD (Primary, secondary –<b>MBR &amp; tertiary treatment-EDR &amp; Evaporator</b>) for to achieve quality of treated effluent for recycle.</li> <li>• Treated effluent recycled back in to process</li> </ul>
IV	Wet garbage should be treated by Organic waste converter and treated waste (manure) should be utilized in the existing premises for gardening And no wet garbage will be disposed outside premises.	Complied –Provision of Organic waste converter machine for food waste
V	Local body should ensure that no occupation cert. is issued prior to operation of STP/MSW site etc.	Occupation certificate issued after Completion of project.
VI	In the case of any changes in the scope of the project would require a fresh appraisal by this dept.	Noted
VII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguard.	Complied
VIII	Separate funds shall be allocated for implementation of Environmental protection measure /EMP along with item wise breakup. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to MPCB & this dept.	Complied

IX	Advertise at least in two local newspapers widely circulated in the region around the project , informing that the project has accorded environmental clearance & copies are available at MPCB & website <a href="http://envis.maharashtra.gov.in">http://envis.maharashtra.gov.in</a>	<b>Yes Complied</b> <ul style="list-style-type: none"> <li>• Advertise given in Local newspaper – Mumbai Sakal (for Marathi Lang.) &amp; In DNA (for English Language).</li> <li>• Published copy of Advertisement on dated 14<sup>th</sup> March 2014.</li> </ul>
X	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC terms & conditions in hard copies & soft copies to MPCB & this department.	<b>Complied, Annexure V A</b> Ack. copy of Half Yearly Comp. ce Report submitted to MPCB, dated 30.11.2022.
XI	A copy of the clearance letter shall be sent by proponent to the concern municipal corporation & 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.	<b>Yes –Noted</b> <ul style="list-style-type: none"> <li>• Project situated in Mangaon MIDC Industrial area, near no Municipal corporation.</li> <li>• No suggestion received from any Local NG, interested party during processing of Clearance.Noted.</li> </ul>
XII	The criteria pollutant levels namely SPM, RSPM, SO <sub>2</sub> .NOX(ambient levels as well as stack emission) shall be monitored & displayed at a convenient location near the main gate of the company in public domain	<b>Complied</b> <ul style="list-style-type: none"> <li>• Ambient Air Quality Monitoring done as per NAQM standards &amp; reports are submitted to MPCB.</li> <li>• Regular stack monitoring has been carried out &amp; also displayed monitoring results on near to main gate board.</li> <li>• <b>Annexure I</b> Reports of Ambient Air Quality Monitoring through MoEFCC approved Laboratory (Dec'22 to May'23).</li> <li>• Regular submission of monitoring reports to SRO MPCB off.- Mahad. [As per MPCB-CTO Conditions].</li> </ul>
XIII	The Environment Statement for each financial year ending 31 <sup>st</sup> march in form V is mandatory to submit it to MPCB.	<b>Complied, Form-V</b> <ul style="list-style-type: none"> <li>• Environmental Statement (FY: 2021 -2022) submitted to MPCB Portal online on date 29/09/2022.</li> </ul>
XIV	Green Belt shall be developed & maintained around the plant periphery. Considering CPCB guidelines for selection of species of plant.	<b>Yes – Completed</b> <ul style="list-style-type: none"> <li>• Green Belt Development done and will continue for further nourishment. Water sprinkler system provided for irrigation of green belt area.</li> <li>• We have entered into Horticulture contract &amp; employed local manpower in horticulture for local employment.</li> <li>• <b>Monsoon Tree Plantation:</b> Planted <b>950 Nos.</b> New Trees in the month of June &amp; July 2022.</li> <li>• Plan to plant 1000 Nos. trees in Y2023.</li> </ul>

Thanking You

Yours Truly

For POSCO Maharashtra Steel Pvt. Ltd.

  
**Mr. Atin N. Raut**  
AGM- EHS



Composite  
Reports



AAQM - fortnightly Reports  
Deel22 (1st Round)

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 2

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/10728-10730
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	10/12/2022
	LAB REFERENCE NO.	HS/LAB/AA/489
	SAMPLING DATE	05&06/12/2022
	SAMPLE RECEIPT DATE	06/12/2022
	START DATE OF ANALYSIS	06/12/2022
	END DATE OF ANALYSIS	09/12/2022
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT		
01	DATE OF SAMPLING				05&06/12/2022	05&06/12/2022	05/12/2022
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)
03	SAMPLING DURATION			Hrs.	24	24	08
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	43.51	37.65	18.59
		24 Hrs**	100				
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	21.08	18.03	10.26
		24 Hrs**	60				
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL
		24 Hrs**	80				
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	11.30	14.50	11.72
		24 Hrs**	80				
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.089	0.099	0.072
		01 Hr**	0.4				
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	BDL	BDL	--
		24 Hrs**	400				

**DISCLAIMER :**

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**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

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Page 2 of 2

11	Pb	Annual*	0.50	µg/m <sup>3</sup>	BDL	BDL	--
		24 Hrs**	1.0				
12	Ozone	08 Hrs*	100	µg/m <sup>3</sup>	BDL	BDL	--
		01 Hr *	180				
13	Benzene	Annual*	05	µg/m <sup>3</sup>	BDL	BDL	--
14	Benzo(a)Pyrene	Annual*	01	ng/m <sup>3</sup>	BDL	BDL	--
15	Arsenic	Annual*	06	ng/m <sup>3</sup>	BDL	BDL	--
16	Nickel	Annual*	20	ng/m <sup>3</sup>	BDL	BDL	--

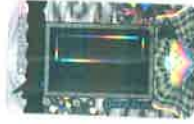
**REMARKS/OBSERVATIONS: -**

**NAAQS:** - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL**-Below Detectable Level (<0.01 ppm)

For HORIZON SERVICES



*Manisha Nargolkar*  
F **MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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AAQM - Reports.  
Dec' 22 (2nd Round)  
Fortnightly

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
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**TEST CERTIFICATE**

Page 1 of 2

HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  <b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/11744-11747
	<b>REPORT DATE</b>	27/12/2022
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/530
	<b>SAMPLING DATE</b>	20&21/12/2022
	<b>SAMPLE RECEIPT DATE</b>	22/12/2022
	<b>START DATE OF ANALYSIS</b>	22/12/2022
	<b>END DATE OF ANALYSIS</b>	26/12/2022
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION	NAAQS LIMITS	UNIT	RESULT				
				20/12/2022	20/12/2022	20&21/12/2022	20&21/12/2022	
01	DATE OF SAMPLING			20/12/2022	20/12/2022	20&21/12/2022	20&21/12/2022	
02	TEST LOCATION			Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)	ACL- Plant (ACL Main Gate)	
03	SAMPLING DURATION		Hrs.	08	08	24	24	
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	18.65	21.23	45.31	42.31
		24 Hrs**	100					
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	10.25	11.56	20.10	22.01
		24 Hrs**	60					
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL
		24 Hrs**	80					
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	13.52	10.36	18.47	13.24
		24 Hrs**	80					
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.075	0.070	0.098	BDL
		01 Hr**	0.4					
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	--	--	BDL	BDL
		24 Hrs**	400					

**DISCLAIMER :**

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**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

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Page 2 of 2

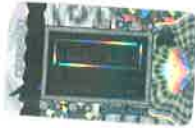
11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	---	---	BDL	BDL
		24 Hrs**	1.0					
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	---	---	BDL	BDL
		01 Hr *	180					
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	---	---	BDL	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	---	---	BDL	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	---	---	BDL	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	---	---	BDL	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS:** - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL**-Below Detectable Level (<0.01 ppm)



For HORIZON SERVICES

  
F **MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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18/01/2023

Phone : 02355-261970 Fax : - Email : mpcbchiplunlab@mpcb.gov.in Website : http://mpcb.gov.in	 <b>"Your Service is our Duty"</b>	<b>Regional Laboratory</b> Regional Laboratory, Chiplun, Maharashtra Pollution Control Board, 105,106 Parkar Complex, 1st Floor, Behind Nagar Parishad, Chiplun, Dist. Ratnagiri. 415 605
---	--	--

Annexure - I/A

Repot Outward No.: MPCB/RL-Chiplun/Ambient/22-23/02/21

Date: 09/02/2023 02:40 PM

<b>Analysis Report-Air (Ambient)</b>
--------------------------------------

✓

<b>Client/Industry/location Name &amp; Address</b>
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POSCO Maharashtra Steel Pvt. Ltd.
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R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing
---

<b>Sample Details</b>
-----------------------

Field Sample ID :	BR-0039447
Laboratory Sample Code :	MPCB/RL-Chiplun/AMB/22-23/192
Sample Details (Water/Air/HW) :	Air
Sample Volume Received :	
Sample Collected By :	FO-Mahad (Shri J. J. Kumbhar) (SRO-Mahad)
Seal No. :	231
Type of Industry / Location details :	Red
Sample Collected On :	Jan 18 2023 11:00:00:000AM

Sr.No	Parameter	Starting Time	Closing Time	Result	Unit	Method of analysis
1	PM10	18-01-2023 11:00	18-01-2023 19:00	49	$\mu\text{g}/\text{m}^3$	
2	SO <sub>2</sub>	18-01-2023 11:00	18-01-2023 15:00	BDL	$\mu\text{g}/\text{m}^3$	
3	SO <sub>2</sub>	18-01-2023 15:00	18-01-2023 19:00	4	$\mu\text{g}/\text{m}^3$	
4	NO <sub>x</sub>	18-01-2023 11:00	18-01-2023 15:00	15	$\mu\text{g}/\text{m}^3$	
5	NO <sub>x</sub>	18-01-2023 15:00	18-01-2023 19:00	13	$\mu\text{g}/\text{m}^3$	

Report Type: final

Report generated on: 09/02/2023 02:39 PM

Complied &amp; Approved by: Anil N Sandansing

Reviewed on Date: 09/02/2023 02:40 PM

Reviewed by: Anil N Sandansing

18-01-2023

Phone : 02355-261970 Fax : - Email : mpcbchiplunlab@mpcb.gov.in Website : http://mpcb.gov.in	 "Your Service is our Duty"	<b>Regional Laboratory</b> Regional Laboratory, Chiplun, Maharashtra Pollution Control Board, 105,106 Parkar Complex, 1st Floor, Behind Nagar Parishad, Chiplun, Dist. Ratnagiri. 415 605
---	---	--

Report Outward No.: MPCB/RL-Chiplun/Ambient/22-23/02/22

Date: 09/02/2023 02:40 PM

**Analysis Report-Air (Ambient)**

Client/Industry/location Name & Address
POSCO Maharashtra Steel Pvt. Ltd. R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing

Sample Details	
Field Sample ID :	BR-0039448
Laboratory Sample Code :	MPCB/RL-Chiplun/AMB/22-23/193
Sample Details (Water/Air/HW) :	Air
Sample Volume Received :	
Sample Collected By :	FO-Mahad (Shri J. J. Kumbhar) (SRO-Mahad)
Seal No. :	231
Type of Industry / Location details :	Red
Sample Collected On :	Jan 18 2023 11:30:00:000AM

Sr.No	Parameter	Starting Time	Closing Time	Result	Unit	Method of analysis
1	PM10	18-01-2023 11:30	18-01-2023 19:30	63	µg/m <sup>3</sup>	
2	SO2	18-01-2023 11:30	18-01-2023 15:30	4	µg/m <sup>3</sup>	
3	SO2	18-01-2023 15:30	18-01-2023 19:30	4	µg/m <sup>3</sup>	
4	NOx	18-01-2023 11:30	18-01-2023 15:30	17	µg/m <sup>3</sup>	
5	NOx	18-01-2023 15:30	18-01-2023 19:30	14	µg/m <sup>3</sup>	

**Report Type:** final

**Report generated on:** 09/02/2023 02:39 PM

**Complied & Approved by:** Anil N Sandansing

**Reviewed on Date:** 09/02/2023 02:40 PM

**Reviewed by:** Anil N Sandansing





AAQM - Composite Reports

Jan'23 (1st Round)

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

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**TEST CERTIFICATE**

Page 1 of 2

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/13143-13146
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	19/01/2023
	LAB REFERENCE NO.	HS/LAB/AA/593
	SAMPLING DATE	11&12/01/2023
	SAMPLE RECEIPT DATE	13/01/2023
	START DATE OF ANALYSIS	13/01/2023
	END DATE OF ANALYSIS	18/01/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT			
01	DATE OF SAMPLING				11/01/2023	11&12/01/2023	11/01/2023	11&12/01/2023
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)	ACL- Plant (ACL Main Gate)
03	SAMPLING DURATION			Hrs.	08	24	08	24
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	23.10	43.16	20.13	45.34
		24 Hrs**	100					
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	11.98	21.98	12.85	23.12
		24 Hrs**	60					
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL
		24 Hrs**	80					
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	10.56	12.10	10.31	10.71
		24 Hrs**	80					
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.079	0.090	0.079	BDL
		01 Hr**	0.4					
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	--	BDL	--	BDL
		24 Hrs**	400					

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Page 2 of 2

11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
		24 Hrs**	1.0					
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
		01 Hr *	180					
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	--	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS: - National Ambient Air Quality Standards**

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL**-Below Detectable Level (<0.01 ppm)



For **HORIZON SERVICES**

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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AAQM - Composite Reports  
Jan'23 (2nd Round)

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

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**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/13929-13931
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	06/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/636
	SAMPLING DATE	30&31/01/2023
	SAMPLE RECEIPT DATE	01/02/2023
	START DATE OF ANALYSIS	01/02/2023
	END DATE OF ANALYSIS	04/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT		
01	DATE OF SAMPLING				30&31/01/2023	30/01/2023	30&31/01/2023
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)
03	SAMPLING DURATION			Hrs.	24	08	24
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	40.85	18.67	41.27
		24 Hrs**	100				
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	19.67	10.53	22.56
		24 Hrs**	60				
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL
		24 Hrs**	80				
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	13.71	8.64	15.31
		24 Hrs**	80				
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.080	0.069	0.105
		01 Hr**	0.4				
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	BDL	--	BDL
		24 Hrs**	400				

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Page 2 of 2

11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	BDL	--	BDL
		24 Hrs**	1.0				
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	BDL	--	BDL
		01 Hr *	180				
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	BDL	--	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS: - National Ambient Air Quality Standards**

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL-Below Detectable Level (<0.01 ppm)**

For HORIZON SERVICES



**MANISHA NARGOLKAR**  
(Lab Incharge)



\*\*\*\*End of Test Report\*\*\*\*

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AAEPM - Feb' 23

Round - I - Composite Report

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
 Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 2

HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  <b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/14573-14576
	<b>REPORT DATE</b>	20/02/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/666
	<b>SAMPLING DATE</b>	13&14/02/2023
	<b>SAMPLE RECEIPT DATE</b>	15/02/2023
	<b>START DATE OF ANALYSIS</b>	15/02/2023
	<b>END DATE OF ANALYSIS</b>	18/02/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT			
01	DATE OF SAMPLING				13/02/2023	13&14/02/2023	13/02/2023	13&14/02/2023
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)	ACL- Plant (ACL Main Gate)
03	SAMPLING DURATION			Hrs.	08	24	08	24
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	26.93	40.37	23.41	48.72
		24 Hrs**	100					
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	13.10	18.96	13.16	24.56
		24 Hrs**	60					
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL
		24 Hrs**	80					
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	8.71	10.53	8.79	8.96
		24 Hrs**	80					
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.070	0.099	0.070	BDL
		01 Hr**	0.4					
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	--	BDL	--	BDL
		24 Hrs**	400					

**DISCLAIMER :**

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only.



**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

Page 2 of 2

11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	---	BDL	---	BDL
		24 Hrs**	1.0					
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	--	BDL	---	BDL
		01 Hr *	180					
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	--	BDL	---	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	--	BDL	---	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	--	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS:** - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

BDL-Below Detectable Level (<0.01 ppm)



For HORIZON SERVICES

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only.



AAQM - Composite Reports  
Feb 23 (2nd Round)

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	REPORT DATE
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	HS/LAB/AA/15208-15210	06/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/699
	SAMPLING DATE	27&28/02/2023
	SAMPLE RECEIPT DATE	01/03/2023
	START DATE OF ANALYSIS	01/03/2023
	END DATE OF ANALYSIS	04/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT		
01	DATE OF SAMPLING				27&28/02/2023	27/02/2023	27&28/02/2023
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)
03	SAMPLING DURATION			Hrs.	24	08	24
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	46.34	23.14	46.97
		24 Hrs**	100				
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	22.10	12.82	25.73
		24 Hrs**	60				
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL
		24 Hrs**	80				
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	10.28	9.76	12.31
		24 Hrs**	80				
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.071	0.075	0.118
		01 Hr**	0.4				
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	BDL	--	BDL
		24 Hrs**	400				

**DISCLAIMER:**

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- Liability limited till issue of test reports only.
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- The effect of results relate only to the item tested.



**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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Page 2 of 2

11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	BDL	--	BDL
		24 Hrs**	1.0				
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	BDL	--	BDL
		01 Hr *	180				
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	BDL	--	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS: - National Ambient Air Quality Standards**

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL**-Below Detectable Level (<0.01 ppm)

For HORIZON SERVICES



*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
**(Lab Incharge)**

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

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Ambient Air Quality Monitoring  
Composite Report  
[9th & 10th Mar/23 - Round I<sup>st</sup>]

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
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**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/15662-15665
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	15/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/720
	SAMPLING DATE	09&10/03/2023
	SAMPLE RECEIPT DATE	10/03/2023
	START DATE OF ANALYSIS	10/03/2023
	END DATE OF ANALYSIS	14/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION	NAAQS LIMITS	UNIT	RESULT				
01	DATE OF SAMPLING			09/03/2023	09&10/03/2023	09/03/2023	09&10/03/2023	
02	TEST LOCATION			Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)	ACL- Plant (ACL Main Gate)	
03	SAMPLING DURATION		Hrs.	08	24	08	24	
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	24.28	45.20	21.70	43.27
		24 Hrs**	100					
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	14.39	23.10	11.39	21.56
		24 Hrs**	60					
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL
		24 Hrs**	80					
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	9.10	11.39	9.89	10.23
		24 Hrs**	80					
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.079	0.090	0.079	BDL
		01 Hr**	0.4					
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	---	BDL	--	BDL
		24 Hrs**	400					

**DISCLAIMER :**

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**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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Page 2 of 2

11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	---	BDL	---	BDL
		24 Hrs**	1.0					
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	---	BDL	---	BDL
		01 Hr *	180					
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	--	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS: - National Ambient Air Quality Standards**

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

BDL-Below Detectable Level (<0.01 ppm)



For **HORIZON SERVICES**

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER :**

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Ambient Air Quality Monitoring  
AAQM - Reports - 2nd Round.  
[20th & 21st Mar, 2023]

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 2

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16346-16348
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308.	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	20&21/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT		
01	DATE OF SAMPLING				20&21/03/2023	20/03/2023	20&21/03/2023
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)
03	SAMPLING DURATION			Hrs.	24	08	24
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	58.64	27.43	52.13
		24 Hrs**	100				
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	28.31	15.10	22.10
		24 Hrs**	60				
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL
		24 Hrs**	80				
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	12.30	8.25	13.61
		24 Hrs**	80				
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.098	0.081	0.102
		01 Hr**	0.4				
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	BDL	--	BDL
		24 Hrs**	400				

**DISCLAIMER :**

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**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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Page 2 of 2

11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	BDL	---	BDL
		24 Hrs**	1.0				
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	BDL	---	BDL
		01 Hr *	180				
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	BDL	--	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS: - National Ambient Air Quality Standards**

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL**-Below Detectable Level (<0.01 ppm)

For **HORIZON SERVICES**



**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER :**

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AAQM- Composite Report  
12<sup>th</sup> & 13<sup>th</sup> April 23 (Round-I)

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  <b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/00935-00938
	<b>REPORT DATE</b>	19/04/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/030
	<b>SAMPLING DATE</b>	12&13/04/2023
	<b>SAMPLE RECEIPT DATE</b>	14/04/2023
	<b>START DATE OF ANALYSIS</b>	14/04/2023
	<b>END DATE OF ANALYSIS</b>	18/04/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION	NAAQS LIMITS	UNIT	RESULT				
				12/04/2023	12&13/04/2023	12/04/2023	12&13/04/2023	
01	DATE OF SAMPLING			12/04/2023	12&13/04/2023	12/04/2023	12&13/04/2023	
02	TEST LOCATION			Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)	ACL- Plant (ACL Main Gate)	
03	SAMPLING DURATION		Hrs.	08	24	08	24	
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	29.68	55.27	25.32	48.52
		24 Hrs**	100					
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	15.12	26.32	13.58	24.31
		24 Hrs**	60					
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL
		24 Hrs**	80					
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	10.35	13.12	8.62	12.05
		24 Hrs**	80					
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.072	0.099	0.083	BDL
		01 Hr**	0.4					
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	---	BDL	--	BDL
		24 Hrs**	400					

**DISCLAIMER:**

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• The test report shall not be produced for any legal identity or advertised without permission of lab. • The effect of results relate only to the item tested.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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Page 2 of 2

11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	---	BDL	---	BDL
		24 Hrs**	1.0					
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	---	BDL	---	BDL
		01 Hr *	180					
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	--	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**


**NAAQS:** - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL**-Below Detectable Level (<0.01 ppm)



For **HORIZON SERVICES**

  
f **MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

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AACQM- Composite Reports  
26<sup>th</sup> to 27<sup>th</sup> Apr/23 (Round-II)

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  <b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308.	<b>REPORT NO</b>	HS/LAB/AA/01633-01635
	<b>REPORT DATE</b>	04/05/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/068
	<b>SAMPLING DATE</b>	26&27/04/2023
	<b>SAMPLE RECEIPT DATE</b>	28/04/2023
	<b>START DATE OF ANALYSIS</b>	28/04/2023
	<b>END DATE OF ANALYSIS</b>	03/05/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT		
01	DATE OF SAMPLING				26&27/04/2023	26/04/2023	26&27/04/2023
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)
03	SAMPLING DURATION			Hrs.	24	08	24
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	52.61	33.12	45.32
		24 Hrs**	100				
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	24.89	17.91	23.07
		24 Hrs**	60				
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL
		24 Hrs**	80				
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	10.13	9.28	10.23
		24 Hrs**	80				
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.090	0.092	0.128
		01 Hr**	0.4				
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	BDL	--	BDL
		24 Hrs**	400				

**DISCLAIMER:**

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only.  
• The test report shall not be produced for any legal identity as advertised, without permission of lab. • The effect of results relate only to the item tested.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

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11	Pb	Annual*	0.50	µg/m <sup>3</sup>	BDL	---	BDL
		24 Hrs**	1.0				
12	Ozone	08 Hrs*	100	µg/m <sup>3</sup>	BDL	---	BDL
		01 Hr *	180				
13	Benzene	Annual*	05	µg/m <sup>3</sup>	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	ng/m <sup>3</sup>	BDL	--	BDL
15	Arsenic	Annual*	06	ng/m <sup>3</sup>	BDL	--	BDL
16	Nickel	Annual*	20	ng/m <sup>3</sup>	BDL	---	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS: - National Ambient Air Quality Standards**

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL-Below Detectable Level (<0.01 ppm)**



For **HORIZON SERVICES**



₹

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

- Sample will be retained only for 15 days.
- Above results indicate to the parameters mentioned only.
- Liability limited till issue of test reports only.
- The test report shall not be produced for any legal identity or advertised without permission of Lab.
- The effect of results relate only to the item tested.





AAQM- Reports.

11th & 12th May 2023

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02133-02136
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11&12/05/2023
	SAMPLE RECEIPT DATE	13/05/2023
	START DATE OF ANALYSIS	13/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	--

**RESULTS**

SR. NO.	DESCRIPTION		NAAQS LIMITS	UNIT	RESULT			
01	DATE OF SAMPLING				11/05/2023	11&12/05/2023	11/05/2023	11&12/05/2023
02	TEST LOCATION				Main Gate (Near Weigh Bridge Cabin)	Dormitory Area	Utility Area (CGL Entry Electrical Room Top)	ACL- Plant (ACL Main Gate)
03	SAMPLING DURATION			Hrs.	08	24	08	24
04	PM <sub>10</sub>	Annual*	60	µg/m <sup>3</sup>	35.20	62.10	31.02	65.28
		24 Hrs**	100					
05	PM <sub>2.5</sub>	Annual*	40	µg/m <sup>3</sup>	18.46	29.86	17.06	33.10
		24 Hrs**	60					
07	SO <sub>2</sub>	Annual*	50	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL
		24 Hrs**	80					
08	NO <sub>2</sub>	Annual*	40	µg/m <sup>3</sup>	13.01	15.20	13.20	17.13
		24 Hrs**	80					
09	CO (1 hour)	08 Hrs*	0.2	mg/m <sup>3</sup>	0.079	0.091	0.089	0.069
		01 Hr**	0.4					
10	NH <sub>3</sub>	Annual*	100	µg/m <sup>3</sup>	--	BDL	--	BDL
		24 Hrs**	400					



Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

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11	Pb	Annual*	0.50	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
		24 Hrs**	1.0					
12	Ozone	08 Hrs*	100	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
		01 Hr *	180					
13	Benzene	Annual*	05	$\mu\text{g}/\text{m}^3$	--	BDL	--	BDL
14	Benzo(a)Pyrene	Annual*	01	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
15	Arsenic	Annual*	06	$\text{ng}/\text{m}^3$	--	BDL	--	BDL
16	Nickel	Annual*	20	$\text{ng}/\text{m}^3$	--	BDL	--	BDL

**REMARKS/OBSERVATIONS: -**

**NAAQS:** - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

**BDL**-Below Detectable Level (<0.01 ppm)

For **HORIZON SERVICES**

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**NATIONAL AMBIENT AIR QUALITY STANDARDS  
CENTRAL POLLUTION CONTROL BOARD  
NOTIFICATION**

**New Delhi, the 18<sup>th</sup> November, 2009**

No.B-29016/20/90/PCI-L—In exercise of the powers conferred by Sub-section (2) (h) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981), and in super session of the Notification No(s). S.O. 384(E), dated 11<sup>th</sup> April, 1994 and S.O. 935(E), dated 14<sup>th</sup> October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

**NATIONAL AMBIENT AIR QUALITY STANDARDS**

S. No.	Pollutant	Time Weighted average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and Other Area	Ecologically sensitive area (notified by Central Govt.)	
(1)	(2)	(3)	(4)	(5)	(6)
✓ 1	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	50	20	<ul style="list-style-type: none"> <li>Improved West and Geake</li> <li>Ultraviolet fluorescence</li> </ul>
		24 hours**	80	80	
✓ 2	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	40	30	<ul style="list-style-type: none"> <li>Modified Jacob &amp; Hochheiser (Na-Arsenite)</li> <li>Chemiluminescence</li> </ul>
		24 hours**	80	80	
✓ 3	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> µg/m <sup>3</sup>	Annual*	60	60	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	100	100	
4	Particulate Matter (size less than 2.5 microns) or PM <sub>2.5</sub> µg/m <sup>3</sup>	Annual*	40	40	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	60	60	
5	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	8 hours **	100	100	<ul style="list-style-type: none"> <li>UV photometric</li> <li>Chemiluminescence</li> <li>Chemical method</li> </ul>
		1 hour **	180	180	
6	Lead (Pb) µg/m <sup>3</sup>	Annual*	0.5	0.5	<ul style="list-style-type: none"> <li>ASS / ICP method after sampling on EPM 2000 or equivalent filter paper</li> <li>ED - XRF using Teflon filter</li> </ul>
		24 hours**	1.0	1.0	

Ambient Air Quality Monitoring Reports (Dec'22 to May'23)

S.No.	Description Name of Location	NAAQS Limit	UOM	Results																																
				Main Gate (Near Weigh Bldg Cabin)					Dormitory Area					Utility Area (CGL Entry Elec. Room)					ACL-Main Gate																	
				Dec'22	Jan'23	Feb'23	Mar'23	Apr'23	May'23	Average	Dec'22	Jan'23	Feb'23	Mar'23	Apr'23	May'23	Average	Dec'22	Jan'23	Feb'23	Mar'23	Apr'23	May'23	Average												
1	Parameters	100	µg/m <sup>3</sup>	31.08	31.98	36.64	41.46	41.145	35.2	36.250	29.44	30.92	31.755	36.31	44.195	62.1	39.12	31.95	30.7	35.19	36.91	35.32	31.02	33.515	42.31	45.34	48.72	43.27	48.52	65.28	48.90667					
2	PM <sub>10</sub>	60	µg/m <sup>3</sup>	15.66	15.83	17.6	21.35	20.005	18.46	18.15083	14.78	16.26	15.89	19.1	22.115	29.66	19.668	15.18	17.71	19.45	16.74	18.325	17.06	17.41	22.01	23.12	24.56	21.56	24.31	33.1	24.77667					
3	SO <sub>2</sub>	80	µg/m <sup>3</sup>	12.41	12.14	9.495	10.7	10.240	13.01	11.333	12.43	10.37	10.145	9.82	11.2	15.2	11.528	15.09	12.81	10.55	11.75	9.425	10.106	0.089	0.093	8.96	10.23	12.05	17.13	12.053						
4	NO <sub>x</sub>	0.4	mg/m <sup>3</sup>	0.082	0.08	0.071	0.089	0.081	0.079	0.080	0.084	0.08	0.087	0.085	0.096	0.091	0.087	0.085	0.092	0.094	0.091	0.106	0.089	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093				
5	CO (1Hour)	400	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				
6	NH <sub>3</sub>	1	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
7	Pb	180	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
8	Ozone	5	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
9	Benzene	1	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Pyrene	1	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	Arsenic	6	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Nickel	20	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Authorized Signatory  
 For POSCO Maharashtra Steel Pvt.Ltd.  
  
 Mr. Atin N. Raut  
 AGM-EHS



MAHARASHTRA STEEL

PMSPL/ENV/MPCB/AAQM/04/2023

Date: 30<sup>th</sup> April, 2023

To,  
The Sub-Regional Officer,  
Maharashtra Pollution Control Board,  
CFC Building , MIDC Mahad, Raigad

**Sub-Submission of Fortnightly Ambient Air Quality Monitoring Reports (Period from Jan~Mar'23)**

Respected Madam,

With reference to above subject, we would like to submit herewith Ambient Air Quality Monitoring Report [AAQM] (Period from Jan~Mar'23) as pe The National Ambient Air Quality Standard (NAAQS)-CENTRAL POLLUTION CONTROL BOARD NOTIFICATION New Delhi, the 18th November, 2009.

Details are as follows:

Ambient Air Quality Monitoring Reports (Jan-Mar'23)																			
S. N	Name of Place	NAAQS Limit	UOM	Results															
				Main Gate (Near Weigh Bidge Cabin)				Dormitory Area				Utility Area (CGL Entry Elec. Room )				ACL-Main Gate			
		Monthwise Average Sampling		Jan' 23	Feb' 23	Mar' 23	Avg	Jan' 23	Feb' 23	Mar' 23	Avg	Jan' 23	Feb' 23	Mar' 23	Avg	Jan' 23	Feb' 23	Mar' 23	Avg
1	Parameters																		
2	PM <sub>10</sub>	100	µg/m <sup>3</sup>	31.9	36.6	41.4	36.6	30.9	31.7	36.3	32.9	30.7	35.1	36.9	34.2	45.3	48.7	43.2	45.7
3	PM <sub>2.5</sub>	60	µg/m <sup>3</sup>	15.8	17.6	21.3	18.2	16.2	15.8	19.1	17.0	17.7	19.4	16.7	17.9	23.1	24.5	21.5	23.0
4	SO <sub>2</sub>	80	µg/m <sup>3</sup>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5	NOX	80	µg/m <sup>3</sup>	12.1	9.49	10.7	10.7	10.3	10.1	9.82	10.1	12.8	10.5	11.7	11.7	10.7	8.96	10.23	9.9
6	CO (1Hr)	0.4	mg/m <sup>3</sup>	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	BDL	BDL	BDL	BDL

Name of External Lab: M/s Horizon Services Analytical Laboratory, Pune

Lab Approved by MoEF, New Delhi. [Valid Till 05/02/2024].

Lab NABL Accredited -Testing – Chemical Field (TC-7064).

This is for your kind information & Compliance under Consent To Operate (CTO)\_Renewal conditions & EC Conditions .

Kindly acknowledge the receipt of the same.

Thanking you

Yours Truly

For POSCO Maharashtra Steel Pvt. Ltd.

Mr. Atin N. Raut

AGM-EHS



*12/05/2023*  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402309

Enclosure:

- Reports Copy of Fortnightly Ambient Air Quality Monitoring Reports (Period from Jan~Mar'23)

PMSPL/ENV/MPCB/CGL-CTO/Comp-01/2023

To,  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: Quarterly Statement in respect of obligation towards Consent to Operate & Pollution Control Compliances of Quarter (Jan~Mar, 2023) - CGL Plant.**

**Consent No: Format1.0/CAC/UAN No.0000128520/CR/2204000648, Date 12/04/2022, Valid till 28/02/2027**

Respected Sir,

With above reference, we would like to submit quarterly compliance report of Quarter Jan~Mar, 2023 w.r.t. conditions given in consent to operate of CGL-Plant are as follows:-

S. N.	Annexure	Enclosure Contents
1	Annexure I	CGL-Quarterly Statement in respect of obligation towards Consent to Operate & Pollution Control Compliances of 1 <sup>st</sup> Quarter. [Period From Jan~ Mar, 2023].
2	Annexure IIA	Analysis Report of Effluent Treatment Plant details (CGL-Plant). [Jan~ Mar, 2023].
	Annexure IIB	MPCB JVS Sampling Reports & External MoEF approved Lab. Reports along with Drinking Water & Ground Water Sample analysis reports respectively. [Jan~Mar, 2023].
	Annexure IIC	P-MH Internal Lab. Reports [Period From Jan~ Mar, 2023].
3	Annexure III	Ambient Air Quality Monitoring Composite Reports (AAQM) for Period from Jan~Mar, 2023 as per NAQM standard 2009 through MoEF approved Laboratory.
4	Annexure IV	CGL-Air (Source Emission) Stack Monitoring Reports for Period Jan'23.
5	Annexure V	Non-Hazardous Waste disposal Details. [Period From Jan~ Mar, 2023].
	Annexure VA	Hazardous Waste disposal Details. [Period From Jan~ Mar, 2023].
	Annexure VB	Intimation of Hz waste disposal to MPCB. [Period From Jan~ Mar, 2023].
	Annexure VC	CGL-Annual Returns Form-IV submitted on MPCB Portal on 23 <sup>rd</sup> Jun'22.
6	Annexure VI	Ack. copy of Half Yearly EC Compliance Conditions Report (Period From Jun, 2022~Nov, 2022)
7	Annexure VII	Environmental Audit Report (Form-V) for FY: 2021-2022 submitted on MPCB Portal on 29 <sup>th</sup> Sep'22.
8	Annexure VIII	CGL-ETP Electricity Consumption details [Period From Jan~ Mar, 2023].
9	Annexure IX	Reports of CGL- Work zone Air & Ambient Noise Level Monitoring [Period From Jan~ Mar, 2023].
10	Annexure X	Acknowledgement copy of Last Quarterly Statement [Period From Oct~ Dec, 2022].

This is for your kind information & compliance under Consent to operate conditions & EC conditions.

Kindly acknowledge the receipt of the same.

Thanking You

Yours Truly

**Authorized Signatory**

**For POSCO Maharashtra Steel Pvt. Ltd.**

**Mr. Atin N. Raut**  
Sr. Mgr. - EHS



*Raut*  
21/04/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402308

PMSPL/ENV/MPCB/CRM/CTO-Comp-01/2023

Date: 17<sup>th</sup> April, 2023

To,  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
CFC Building MIDC Area, Mahad, Raigad.

**Sub: Quarterly statement in respect of obligation towards Consent to Operate & Pollution Control Compliances of Quarter (Jan~Mar, 2023) - CRM Plant.**

**Ref No: - 1.0/BO/CAC-Cell/Auto-renewal/UAN No: 0000047766-18/CAC-1806000029, dt-01/06/2018**

Respected Sir,

With above reference, we would like to submit herewith compliance report Quarter **Jan~Mar, 2023** w.r.t. conditions given in consent to operate of **Cold Rolling Mill (CRM) Plant** are as follows-

S. No	Annexure	Enclosure Contents
1	Annexure I	CRM-Quarterly Statement in respect of obligation towards Consent to Operate and Pollution Control Compliances of 1 <sup>st</sup> Quarter. [Period From Jan~ Mar, 2023].
2	Annexure IIA	Analysis Report of ETP Plant details (CRM-ACL Common ETP) [Jan~Mar'23].
	Annexure IIB	MPCB JVS Sampling Reports & External MoEF approved lab. Reports along with Drinking Water & Ground Water Sample analysis reports respectively.
	Annexure IIC	P-MH Internal CGL & CRM Plant WWTP Reports- Jan~Mar'23.
3	Annexure III	CRM-Air (Source Emissions) Stack Monitoring Reports [Period Feb'23].
4	Annexure IVA	Analysis Results of Ambient Air Quality Monitoring (AAQM) for Jan~Mar'23 as per NAQM standard 2009 through MoEF approved Lab. [Frequency- Fortnightly].
	Annexure IVB	Work zone Air Monitoring Reports. [Period Feb'23].
5	Annexure V	Disposal details of Non-Hazardous Waste details [Period From Jan~Mar'23].
6	Annexure VIA	Details of Hazardous Waste disposal. [Period From Jan~Mar'23].
	Annexure VIB	Intimation of Hz waste disposal to MPCB. [Period From Jan~Mar'23].
7	Annexure VII	CRM-Annual Returns Form-IV Online submitted on MPCB Portal on dated 22 <sup>nd</sup> June, 2022
8	Annexure VIII	CRM-Ambient Noise Level Monitoring [Period From Jan~Mar'23].
9	Annexure IX	CRM- ETP Electricity Consumption details [Period From Jan~Mar'23].
10	Annexure X	Environmental Audit Report (Form-V) for FY: 2021-22 submitted on MPCB Portal_29 <sup>th</sup> Sep'22.
11	Annexure XI	Acknowledgement copy of Last Quarterly Statement [Period From Oct~ Dec, 2022].
12	Annexure XII	Acknowledgement copies of Submitted Half yearly EC Compliance (Jun~Nov'22)

This is for your kind information & Compliance under Consent to Operate Conditions & EC Conditions.

Kindly acknowledge the receipt of the same.

Thanking You

Yours Truly

**For POSCO Maharashtra Steel Pvt. Ltd.**

  
**Mr. Atin N. Raut**  
Sr. Mgr.-EHS



  
21/04/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402309

To,  
The Sub-Regional Officer,  
Maharashtra Pollution Control Board,  
CFC Building MIDC Area, Mahad, Raigad.

**Sub: Quarterly Statement in respect of obligation towards Consent to Operate (CTO) & Pollution Control Compliances of Quarter (Jan ~ Mar, 2023) - ACL Plant.**

Consent No:1.0/BO/CAC-Cell/UAN No:-92026-20/ Autorenewal CAC-2006000453, date: 10/06/2020

**Respected Madam,**

With above reference, we would like to submit herewith compliance report of Quarter Jan~Mar, 2023 w.r.t. Conditions given in consent to operate of Electrical steel (ACL) plant are as follows-

S. No	Annexure	Enclosure Contents
1	Annexure I	Quarterly Compliance Statement in respect of obligation towards Consent to Operate & Pollution Control Compliances of Quarter 1 <sup>st</sup> . [Period From Jan~ Mar, 2023].
2	Annexure-IIA	Analysis Report of ACL-Effluent Treatment Details [Jan~ Mar, 2023].
	Annexure-IIB	MPCB JVS Sampling Reports & External MoEF approved Lab. Reports along with Drinking water & Ground Water Sample analysis reports. [Period From Jan~ Mar, 2023].
	Annexure-C	P-MH CGL & CRM Plant Internal Lab. Reports [Period From Jan~ Mar, 2023].
3	Annexure III	ACL- Air (Source Emissions) Stack Monitoring Reports [March, 2023].
4	Annexure IV	Ambient Air Quality Monitoring (AAQM) Composite Reports- Period from Jan~ Mar, 2023 as per NAQM standard 2009 through MoEF approved Lab. [Monitoring Frequency- Fortnightly].
5	Annexure V	Details of Non- Hazardous Waste disposal. [Period From Jan~ Mar, 2023].
	Annexure VA	Hazardous Waste disposal Details. [Period From Jan~ Mar, 2023].
	Annexure VB	Intimation of Hz waste disposal to MPCB. [Period From Jan~ Mar, 2023].
	Annexure VC	Annual Returns Form-IV Online submitted on MPCB Portal on June 17 <sup>th</sup> , 2022.
6	Annexure VI	Environmental Audit Report (Form-V) for FY: 2021-22 Submitted on MPCB Portal_29 <sup>th</sup> Sep'22.
7	Annexure VII	ACL & CRM- Common ETP Electricity Consumption details. [Period From Jan~ Mar, 2023].
8	Annexure VIII	ACL- Work zone Air & Ambient Noise Monitoring Report [Period Jan~ Mar, 2023].
9	Annexure IX	Acknowledgement Copies of Last Quarterly Statement. [Period From Oct~ Dec, 2022].
10	Annexure X	Acknowledgement copies of Submitted Half yearly EC Compliance (Jun~Nov'22)

This is for your kind information & compliance under Consent to operate conditions & EC conditions.

Kindly acknowledge the receipt of the same.

Thanking You

Yours Truly

For POSCO Maharashtra Steel Pvt. Ltd.

  
Mr. Atin N. Raut  
Sr. Manager- EHS



  
21/04/2023  
Sub-Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402309





Ambient Noise - Main Gate

Jan '23 P-MH  
Main Gate

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

Annexure - III

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/13937
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	06/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/636
	SAMPLING DATE	30&31/01/2023
	SAMPLE RECEIPT DATE	01/02/2023
	START DATE OF ANALYSIS	--
	END DATE OF ANALYSIS	--
	SAMPLING REF. / SOP NO.	HS/NABL/Amb-noise/01

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Noise	Horizon Services	--	--	Main Gate (Near Weigh Bridge Cabin)

**RESULTS**

SR. NO.	DESCRIPTION		UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
	DATE	TIME				
1	30/01/2023	13:09	dB(A)	64.2	--	Lab SOP Based on IS 9989-1981 / CPCB Protocol for Ambient Noise Level Monitoring July 2015, CPCB Regulation on Ambient Noise and Manufacturers Manual
2	30/01/2023	14:09	dB(A)	63.1	--	
3	30/01/2023	15:09	dB(A)	75.7	--	
4	30/01/2023	16:09	dB(A)	77.4	--	
5	30/01/2023	17:09	dB(A)	74.2	--	
6	30/01/2023	18:09	dB(A)	67.0	--	
7	30/01/2023	19:09	dB(A)	67.5	--	
8	30/01/2023	20:09	dB(A)	66.2	--	
9	30/01/2023	21:09	dB(A)	65.5	--	
10	30/01/2023	22:09	dB(A)	65.7	--	
11	30/01/2023	23:09	dB(A)	65.5	--	
12	31/01/2023	00:09	dB(A)	66.7	--	
13	31/01/2023	01:09	dB(A)	66.5	--	
14	31/01/2023	02:09	dB(A)	67.5	--	
15	31/01/2023	03:09	dB(A)	68.3	--	

**DISCLAIMER:**

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**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

16	31/01/2023	04:09	dB(A)	64.9	--
17	31/01/2023	05:09	dB(A)	65.4	--
18	31/01/2023	06:09	dB(A)	69.6	--
19	31/01/2023	07:09	dB(A)	66.2	--
20	31/01/2023	08:09	dB(A)	67.1	--
21	31/01/2023	09:09	dB(A)	74.5	--
22	31/01/2023	10:09	dB(A)	76.9	--
23	31/01/2023	11:09	dB(A)	74.0	--
24	31/01/2023	12:09	dB(A)	65.9	--
			<b>Day Time</b>		
			<b>(Leq)</b>	69.68	--
			<b>L10</b>	71.6	--
			<b>L50</b>	68.5	--
			<b>L90</b>	65.3	--
			<b>Lmax</b>	84.8	--
			<b>Lmin</b>	63.0	--
			<b>Night Time</b>		--
			<b>(Leq)</b>	66.31	--
			<b>L10</b>	67.5	--
			<b>L50</b>	65.2	--
			<b>L90</b>	63.8	--
			<b>Lmax</b>	83.1	--
			<b>Lmin</b>	62.4	--

**Instrument Used:** DIGITAL Sound Level Meter-4(data logging) Q666934

**Make.** Lutron Make

**Calibration Date:** 19/01/2023 **Next Calibration Due:** 18/01/2024

**REMARK/OBSERVATIONS:**

**LIMITS –** ≤75 dB (A) For Day Time (06.00 am to 10.00 pm)  
≤70 dB (A) For Night Time (10.00 pm to 06.00 am)

For **HORIZON SERVICES**

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)



\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER :**

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- Above results indicate to the parameters mentioned only.
- Liability limited till issue of test reports only.
- The test report shall not be produced for any legal identity or advertised without permission of lab.
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Ambient Noise Level

Feb 23. - CGL Utility

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/15213
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	06/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/699
	SAMPLING DATE	27&28/02/2023
	SAMPLE RECEIPT DATE	01/03/2023
	START DATE OF ANALYSIS	--
	END DATE OF ANALYSIS	--
	SAMPLING REF. / SOP NO.	HS/NABL/Amb-noise/01

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Noise	Horizon Services	--	--	Utility Area (CGL Entry Electrical Room Top)

**RESULTS**

SR. NO.	DESCRIPTION		UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
	DATE	TIME				
1	27/02/2023	12:23	dB(A)	65.1	--	Lab SOP Based on IS 9989-1981 / CPCB Protocol for Ambient Noise Level Monitoring July 2015, CPCB Regulation on Ambient Noise and Manufacturers Manual
2	27/02/2023	13:23	dB(A)	66.0	--	
3	27/02/2023	14:23	dB(A)	66.8	--	
4	27/02/2023	15:23	dB(A)	67.7	--	
5	27/02/2023	16:23	dB(A)	66.1	--	
6	27/02/2023	17:23	dB(A)	66.0	--	
7	27/02/2023	18:23	dB(A)	64.6	--	
8	27/02/2023	19:23	dB(A)	63.7	--	
9	27/02/2023	20:23	dB(A)	63.7	--	
10	27/02/2023	21:23	dB(A)	65.6	--	
11	27/02/2023	22:23	dB(A)	62.8	--	
12	27/02/2023	23:23	dB(A)	61.8	--	
13	28/02/2023	00:23	dB(A)	61.4	--	
14	28/02/2023	01:23	dB(A)	61.0	--	
15	28/02/2023	02:23	dB(A)	66.1	--	

**DISCLAIMER:**

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only.



**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

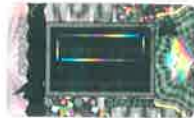
• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

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16	28/02/2023	03:23	dB(A)	62.1	--
17	28/02/2023	04:23	dB(A)	58.7	---
18	28/02/2023	05:23	dB(A)	64.0	--
19	28/02/2023	06:23	dB(A)	60.1	---
20	28/02/2023	07:23	dB(A)	59.8	---
21	28/02/2023	08:23	dB(A)	59.5	---
22	28/02/2023	09:23	dB(A)	61.7	---
23	28/02/2023	10:23	dB(A)	70.2	---
24	28/02/2023	11:23	dB(A)	63.9	--
			<b>Day Time</b>		
			<b>(Leq)</b>	64.41	--
			<b>L10</b>	65.5	--
			<b>L50</b>	60.9	---
			<b>L90</b>	59.0	--
			<b>Lmax</b>	83.5	---
			<b>Lmin</b>	57.0	---
			<b>Night Time</b>		
			<b>(Leq)</b>	62.24	--
			<b>L10</b>	62.8	---
			<b>L50</b>	59.1	---
			<b>L90</b>	57.4	--
			<b>Lmax</b>	81.1	---
			<b>Lmin</b>	56.1	---

**Instrument Used:** Sound Level Meter-Data Logging Type Q666937  
Make. Lutron Instruments  
Calibration Date: 19/01/2023  
Next Calibration Due: 18/01/2024

**REMARK/OBSERVATIONS:**  
**LIMITS – Refer Noise Annexure Enclosed**



For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
**(Lab Incharge)**

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

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**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**Noise Annexure**

**THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000**

*(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)*

**SCHEDULE**

(see rule 3(1) and 4(1))

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Note:-
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
  2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
  3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
  4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*M. Naigalra*



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Ambient Noise Level Monitoring

Mar 23. (CRM - Dormitory Area)

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

TEST CERTIFICATE

Page 1 of 2
HS/LAB/NABL/F/7.8.2.1

Table with 2 columns: CLIENT'S NAME & ADDRESS, REPORT NO, REPORT DATE, LAB REFERENCE NO., SAMPLING DATE, SAMPLE RECEIPT DATE, START DATE OF ANALYSIS, END DATE OF ANALYSIS, SAMPLING REF. / SOP NO.

Table with 5 columns: DETAILS OF SAMPLE, SAMPLING DONE BY, SAMPLE CONTAINER & QUANTITY, NATURE, LOCATION

RESULTS

Table with 6 columns: SR. NO., DESCRIPTION (DATE, TIME), UNIT, RESULTS, MPCB LIMITS, TEST METHOD REFERENCE

DISCLAIMER :

Sample will be retained only for 15 days. Above results indicate to the parameters mentioned only. Liability limited till issue of test reports only. The test report shall not be produced for any legal identity or advertised without permission of lab. The effect of results relate only to the item tested.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

Page 2 of 2

16	21/03/2023	03:37	dB(A)	58.1	--
17	21/03/2023	04:37	dB(A)	60.3	--
18	21/03/2023	05:37	dB(A)	67.0	--
19	21/03/2023	06:37	dB(A)	66.6	--
20	21/03/2023	07:37	dB(A)	66.5	--
21	21/03/2023	08:37	dB(A)	64.7	--
22	21/03/2023	09:37	dB(A)	60.7	--
23	21/03/2023	10:37	dB(A)	66.7	--
24	21/03/2023	11:37	dB(A)	65.8	--
			<b>Day Time</b>		
			<b>(Leq)</b>	64.24	--
			<b>L10</b>	66.0	--
			<b>L50</b>	59.4	--
			<b>L90</b>	53.9	--
			<b>Lmax</b>	79.2	--
			<b>Lmin</b>	48.1	--
			<b>Night Time</b>		
			<b>(Leq)</b>	59.36	--
			<b>L10</b>	65.0	--
			<b>L50</b>	55.1	--
			<b>L90</b>	48.8	--
			<b>Lmax</b>	79.0	--
			<b>Lmin</b>	44.6	--

**Instrument Used:** DIGITAL Sound Level Meter (data logging) Q666937

**Make.** Lutron Make

**Calibration Date:** 19/01/2023 **Next Calibration Due:** 18/01/2024

**REMARK/OBSERVATIONS:**

**LIMITS – Refer Noise Annexure Enclosed**



For HORIZON SERVICES

*MANISHA NARGOLKAR*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER :**

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- The effect of results relate only to the item tested.



**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**SCHEDULE**

(see rule 3(1) and 4(1))

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Note:-
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
  2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
  3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
  4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*mn agolka*

**DISCLAIMER :**

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7/10/2023 Ambient Noise Level Monitoring  
Main Gate - 26<sup>th</sup> & 27<sup>th</sup> April 23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/01637
	<b>REPORT DATE</b>	04/05/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/068
	<b>SAMPLING DATE</b>	26&27/04/2023
	<b>SAMPLE RECEIPT DATE</b>	28/04/2023
	<b>START DATE OF ANALYSIS</b>	--
	<b>END DATE OF ANALYSIS</b>	--
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Amb-noise/01

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Noise	Horizon Services	--	--	Main Gate (Near Weigh Bridge Cabin)

**RESULTS**

SR. NO.	DESCRIPTION		UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
	DATE	TIME				
1	26/04/2023	17:00	dB(A)	72.5	--	Lab SOP Based on IS 9989-1981 / CPCB Protocol for Ambient Noise Level Monitoring July 2015, CPCB Regulation on Ambient Noise and Manufacturers Manual
2	26/04/2023	18:00	dB(A)	71.7	--	
3	26/04/2023	19:00	dB(A)	72.5	--	
4	26/04/2023	20:00	dB(A)	72.4	--	
5	26/04/2023	21:00	dB(A)	73.2	--	
6	26/04/2023	22:00	dB(A)	70.8	--	
7	26/04/2023	23:00	dB(A)	69.9	--	
8	27/04/2023	00:00	dB(A)	69.8	--	
9	27/04/2023	01:00	dB(A)	69.0	--	
10	27/04/2023	02:00	dB(A)	69.4	--	
11	27/04/2023	03:00	dB(A)	68.7	--	
12	27/04/2023	04:00	dB(A)	68.2	--	
13	27/04/2023	05:00	dB(A)	67.9	--	
14	27/04/2023	06:00	dB(A)	67.0	--	
15	27/04/2023	07:00	dB(A)	68.7	--	

**DISCLAIMER:**

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• The test report shall not be produced for any legal identity or advertised without permission of Lab. • The effect of results relate only to the item tested.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

Page 2 of 2

16	27/04/2023	08:00	dB(A)	67.8	--
17	27/04/2023	09:00	dB(A)	70.4	--
18	27/04/2023	10:00	dB(A)	72.0	--
19	27/04/2023	11:00	dB(A)	71.9	--
20	27/04/2023	12:00	dB(A)	71.4	--
21	27/04/2023	13:00	dB(A)	71.0	--
22	27/04/2023	14:00	dB(A)	68.9	--
23	27/04/2023	15:00	dB(A)	71.3	--
24	27/04/2023	16:00	dB(A)	68.5	--
			<b>Day Time</b>		
			<b>(Leq)</b>	71.14	--
			<b>L10</b>	72.4	--
			<b>L50</b>	69.4	--
			<b>L90</b>	67.1	--
			<b>Lmax</b>	89.8	--
			<b>Lmin</b>	63.3	--
			<b>Night Time</b>		--
			<b>(Leq)</b>	68.35	--
			<b>L10</b>	69.3	--
			<b>L50</b>	67.1	--
			<b>L90</b>	65.7	--
			<b>Lmax</b>	88.0	--
			<b>Lmin</b>	64.5	--

**Instrument Used:** DIGITAL Sound Level Meter-4(data logging) Q666934

**Make.** Lutron Make

**Calibration Date:** 19/01/2023 **Next Calibration Due:** 18/01/2024

**REMARK/OBSERVATIONS:**

**LIMITS –** ≤75 dB (A) For Day Time (06.00 am to 10.00 pm)  
≤70 dB (A) For Night Time (10.00 pm to 06.00 am)

For **HORIZON SERVICES**



  
**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

- Sample will be retained only for 15 days.
- Above results indicate to the parameters mentioned only.
- Liability limited till issue of test reports only.
- The test report shall not be produced for any legal identity or advertised without permission of Lab.
- The effect of results relate only to the item tested.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 1

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/01638
<b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	04/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/068
	SAMPLING DATE	27/04/2023
	SAMPLE RECEIPT DATE	28/04/2023
	START DATE OF ANALYSIS	--
	END DATE OF ANALYSIS	--
	SAMPLING REF. / SOP NO.	HS/OI/AIR/AA/21

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
DG-Noise	Horizon Services	--	--	--

**RESULTS**

SR. NO.	TEST LOCATION	UNIT	READING	STANDARDS
<b>CGL- D.G. Set 2000 KVA</b>				
01	D.G. SET (INSIDE ACOUSTIC)	dB(A)	104.2	More than 25
02	D.G. SET (0.5 MTR AWAY)	dB(A)	73.3	
03	<b>INSERSION LOSS AT 0.5 MTR AWAY FROM ACOUSTIC COVER</b>	<b>dB(A)</b>	<b>30.9</b>	
<b>CRM- D.G. Set 2000 KVA</b>				
01	D.G. SET (INSIDE ACOUSTIC)	dB(A)	103.2	More than 25
02	D.G. SET (0.5 MTR AWAY)	dB(A)	73.1	
03	<b>INSERSION LOSS AT 0.5 MTR AWAY FROM ACOUSTIC COVER</b>	<b>dB(A)</b>	<b>30.1</b>	
<b>ACL- D.G. Set 600 KVA</b>				
01	D.G. SET (INSIDE ACOUSTIC)	dB(A)	101.5	More than 25
02	D.G. SET (0.5 MTR AWAY)	dB(A)	73.2	
03	<b>INSERSION LOSS AT 0.5 MTR AWAY FROM ACOUSTIC COVER</b>	<b>dB(A)</b>	<b>28.3</b>	

**Instrument Used:** Digital Sound Level Meter (N520311)

**Make.** HTC Instruments

**Calibration Date:** 16/06/2022 Next Calibration Due: 15/06/2023

**REMARKS/OBSERVATIONS:**

\*Standards are given as per CPCB notification no. G.S.R. 371(E) dated 17 may 2002.

For **HORIZON SERVICES**



*Manisha Nargolkar*  
F **MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

- Sample will be retained only for 15 days.
- Above results indicate to the parameters mentioned only.
- Liability limited till issue of test reports only.
- The test report shall not be produced for any legal identity or advertised without permission of lab.
- The effect of results relate only to the item tested.



Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 2  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/02147
	<b>REPORT DATE</b>	18/05/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/096
	<b>SAMPLING DATE</b>	12/05/2023
	<b>SAMPLE RECEIPT DATE</b>	12/05/2023
	<b>START DATE OF ANALYSIS</b>	--
	<b>END DATE OF ANALYSIS</b>	--
	<b>SAMPLING REF. / SOP NO.</b>	HS/OI/AIR/AA/21

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Workzone Noise	Horizon Services	--	--	--

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULTS	FACTORIES ACT LIMITS
	<b>TEST LOCATIONS</b>		<b>Day Time 12:00 Hrs.</b>	
<b>A.</b>	<b>CAL LINE</b>			
01	Shipping Control Line CAL Area	dB(A)	78.2	90
02	Near Entry Side - CAL Line	dB(A)	79.2	90
03	CAL - Furnace Area	dB(A)	75.8	90
04	CAL - Precleaning Section	dB(A)	79.3	90
05	CAL - Entry Looper	dB(A)	74.1	90
06	CAL - Delivery Looper	dB(A)	79.6	90
07	CAL - Skin Pass Mill Area	dB(A)	82.0	90
08	CAL - Delivery Area	dB(A)	73.8	90
<b>B.</b>	<b>CRM UTILITY AREA</b>			
09	Utility Area- DM Plant	dB(A)	77.1	90
10	WWTP Area- Pump House	dB(A)	84.0	90
11	WWTP Area- Chemical Storage Area	dB(A)	68.2	90
12	WWTP Area- EDR Section	dB(A)	74.0	90
13	WWTP Area- ZLD Section	dB(A)	59.2	90
14	Utility Area- Boiler Area	dB(A)	77.4	90
15	Utility Area- Near Compressor Room	dB(A)	88.2	90
16	Utility Area- Cooling Tower	dB(A)	73.4	90
<b>C.</b>	<b>PCM</b>			
17	Product Yard- CAL	dB(A)	73.9	90
18	Entry Raw Material Yard- CAL	dB(A)	68.2	90
19	Pickling Line Entry Area	dB(A)	67.3	90
20	Near Roll Shop Area (Grinding Pulpit)	dB(A)	75.2	90
21	Roll Shop Bearing Maintenance	dB(A)	74.8	90
22	Pickling Line Centre Area	dB(A)	70.1	90
23	TCM Mill Area	dB(A)	88.0	90
24	Coolant Filtration Area	dB(A)	68.4	90



Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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

Page 2 of 2

25	ARP Plant	dB(A)	68.3	90
26	TCM- Celler Room	dB(A)	82.8	90
27	TCM- Product Yard	dB(A)	74.2	90
28	HR Coil Storage Yard	dB(A)	70.2	90
29	CR Coating Shop	dB(A)	78.3	90
30	CPL Area	dB(A)	81.3	90

**Instrument Used:** Digital Sound Level Meter (N520311)

**Make.** HTC Instruments

Calibration Date: 16/06/2022 Next Calibration Due: 15/06/2023

**REMARK/OBSERVATIONS:**

Limit - 90 dB (A) for continuous 8 hrs. exposure

Noise monitoring results are well within the limits prescribed by factories act Limits.

For **HORIZON SERVICES**

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*



Workzone Noise Level

Acc-plant, May, 23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 2

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02148
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	12/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	--
	END DATE OF ANALYSIS	--
	SAMPLING REF. / SOP NO.	HS/OI/AIR/AA/21

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Workzone Noise	Horizon Services	--	--	--

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULTS	FACTORIES ACT LIMITS
	<b>TEST LOCATIONS</b>		<b>Day Time 14:30 Hrs.</b>	
<b>D.</b>	<b>ACL LINE</b>			
01	Near Entry Pulpit Area	dB(A)	81.8	90
02	Near Main Pulpit Area	dB(A)	62.3	90
03	Near Packing Area (From Office)	dB(A)	76.2	90
04	Near Furnace Area	dB(A)	74.8	90
05	Air Cooling Section (ACS)	dB(A)	72.9	90
06	Near Coater Room Area	dB(A)	78.3	90
07	Near Chemical Storage Room Area	dB(A)	74.3	90
08	Near Logistic Office (Dispatch Gate) Area	dB(A)	78.9	90

**Instrument Used:** Digital Sound Level Meter (N520311)

**Make.** HTC Instruments

Calibration Date: 16/06/2022 Next Calibration Due: 15/06/2023

**REMARK/OBSERVATIONS:**

Limit - 90 dB (A) for continuous 8 hrs. exposure

Noise monitoring results are well within the limits prescribed by factories act Limits.

For HORIZON SERVICES

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*



Workzone Noise level  
 CGL-plant, May'23.

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
 • Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 2  
 HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  <b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/02149
	<b>REPORT DATE</b>	18/05/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/096
	<b>SAMPLING DATE</b>	12/05/2023
	<b>SAMPLE RECEIPT DATE</b>	12/05/2023
	<b>START DATE OF ANALYSIS</b>	--
	<b>END DATE OF ANALYSIS</b>	--
	<b>SAMPLING REF. / SOP NO.</b>	HS/OI/AIR/AA/21

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Workzone Noise	Horizon Services	--	--	--

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULTS	FACTORIES ACT LIMITS
	<b>TEST LOCATIONS</b>		<b>Day Time 10:00 Hrs.</b>	
<b>E.</b>	<b>CGL LINE</b>			
01	Shipping Control Room	dB(A)	73.4	90
02	Near Entry side of CGL Line	dB(A)	73.9	90
03	Near Zinc pot Area	dB(A)	85.0	90
04	Near Furnace	dB(A)	83.0	90
05	Near Centre Pulpit Area	dB(A)	69.2	90
06	CLG Blower Room	dB(A)	85.8	90
07	Pot Roll Cleaning Shop	dB(A)	74.3	90
08	Pre-Cleaning Treatment Section	dB(A)	78.2	90
<b>F.</b>	<b>CGL UTILITY</b>			
09	Utility Area – DM Plant	dB(A)	72.4	90
10	Utility Area – ETP Plant	dB(A)	84.9	90
11	Utility Area – Boiler Area	dB(A)	73.3	90
12	Near Compressor Room	dB(A)	73.2	90
<b>G.</b>	<b>CGL ENTRY LAB</b>			
13	Exit Product Yard	dB(A)	72.6	90
14	Entry Raw Material	dB(A)	68.8	90
15	Near Skin Pass Mill Area	dB(A)	75.3	90
16	Near Roll Shop Area	dB(A)	74.2	90
17	CGL Laboratory Room (Shearing m/c)	dB(A)	68.4	90
18	Exit Inspection Room	dB(A)	77.2	90
19	RCL Area	dB(A)	79.5	90
20	CPL Area	dB(A)	77.8	90



Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

Page 2 of 2

**Instrument Used:** Digital Sound Level Meter (N520311)

**Make.** HTC Instruments

Calibration Date: 16/06/2022 Next Calibration Due: 15/06/2023

**REMARK/OBSERVATIONS:**

Limit - 90 dB (A) for continuous 8 hrs. exposure

Noise monitoring results are well within the limits prescribed by factories act Limits.

For HORIZON SERVICES

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*





Annexure IV: Annual Return of Hazardous Waste  
Maharashtra Pollution Control Board for FY-2021-2022  
महाराष्ट्र प्रदूषण नियंत्रण मंडळ Form-IV - CGL-Line.

**Form 4**

See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

**FORM FOR FILING ANNUAL RETURNS**

[ To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceding period April to march]

**Unique Application Number:**

MPCB-HW\_ANNUAL\_RETURN-0000028839

**Submitted On:**

23-06-2022

**Submitted for Year:**

April 2021 to March 2022

**1. Name of the generator/operator of facility Address of the unit/facility**

POSCO Maharashtra Steel Pvt. Ltd.

C-1/1 & C-1 (Part-1), MIDC Vile- Bhagad, Tal-Mangaon, Dist-Raigad

**1b. Authorization Number**

**Date of issue**

**Date of validity of consent**

1.0/CAC/UAN No.0000128520/CR/2204000648

Apr 12, 2022

Feb 28, 2027

**2. Name of the authorised person**

Kwang Soo Kim

**Full address of authorised person**

Plot No- C-1 & C-1 Part , Vile-Bhagad MIDC, Tal-Mangaon, Dist-Raigad, 402308

**Telephone**

02140661182

**Fax**

02140661198

**Email**

kks@posco.com

3. Production during the year (product wise), wherever applicable

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Iron & Steel	Galvanized Coils/Sheets	450000.0000	386090	Ton/Y
Iron & Steel	H2 Gas	204.0000	103.33	Ton/Y
Iron & Steel	N2 Gas	89280.0000	35512	Ton/Y

**PART A: To be filled by hazardous waste generators**

**1. Total Quantity of waste generated category wise**

Type of hazardous waste	Waste Name	Consented Quantity	Quantity	UOM
5.1 Used or spent oil	Used Oil	24.000	18.63	MTA
6.3 Other residues from processing of zinc ash or skimmings	Zinc Dross	2400.000	1555.43	MTA
35.3 Chemical sludge from waste water treatment	ETP Sludge	840.000	450.32	MTA
12.1 Acidic and alkaline residues	Alkali Sludge	48.000	19.96	MTA
	Waste Chrome solution (Chromic waste)	24.000	9.37	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst & molecular sieves	0.760	0.00	MTA

33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Discarded Containers, MS/HDPE drums, IBC's	6000.000	3009	numbers/anum
--	--	----------	------	--------------

2. Quantity dispatched category wise.

<b>Type of Waste</b>	<b>Quantity of waste</b>	<b>UOM</b>	<b>Dispatched to</b>	<b>Facility Name</b>
5.1 Used or spent oil	18.63	MTA	Recycler or Actual user	M/s. Lubstar Petrochem Industries , C-29, MIDC Mahad.
6.3 Other residues from processing of zinc ash or skimmings	1555.43	MTA	Recycler or Actual user	M/s. Reliable Metal Refinery, W-185, TTC , MIDC Pavane Village, Thane-Belapur Road, Navi Mumbai & DYNAMIC METALS & ALLOYS LLP. Block No./ S.No. 176, Gambhoi to Ranasan Road, Bhavpur, Sabarkantha,Guja
35.3 Chemical sludge from waste water treatment	450.32	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF)
12.1 Acidic and alkaline residues	19.96	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF).
	9.37	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF).
1.6 Spent catalyst and molecular sieves	0.00	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF).
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3009	numbers/anum	Recycler or Actual user	M/s. Jai Jalaram Trading Company, Plot No.: 380, Shree Malang Road, Bhargaon, Tal-Ambarnath, Dist-Thane, 421306

3. Quantity Utilised in-house,If any

<b>Type of Waste</b>	<b>Name of Waste</b>	<b>Quantity of Waste</b>	<b>UOM</b>
	NA	0.00	KL/Anum

4. Quantity in storage at the end of the year

<b>Type of Waste</b>	<b>Name of Waste</b>	<b>Quantity of Waste</b>	<b>UOM</b>
	NA	0	KL/Anum

## PART B: To be filled bt Treatment,storage, and disposal facility operators

<b>Total Quantity received</b>	<b>UOM</b>	<b>State Name</b>
NA	KL/Anum	Maharashtra
<b>2. Quantity in stock at the beginning of the year</b>	<b>UOM</b>	
NA	KL/Anum	
<b>3. Quantity treated</b>	<b>UOM</b>	
NA	KL/Anum	
4. Quantity disposed in landfills as such and after treatment		
<b>Direct landfilling</b>	<b>UOM</b>	
NA	KL/Anum	
<b>Landfill after treatment</b>	<b>UOM</b>	
NA	KL/Anum	
<b>5. Quantity incinerated (if applicable)</b>	<b>UOM</b>	
NA	KL/Anum	
<b>6. Quantiry processed other than specified above</b>	<b>UOM</b>	
NA	KL/Anum	
<b>7. Quantity in storage at the end of the year.</b>	<b>UOM</b>	
NA	KL/Anum	

**PART C: To be filled by recyclers or co-processors or other users**

1. Quantity of waste received during the year

<b>Waste Name/Category</b>	<b>Country Name</b>	<b>State Name</b>	<b>Quantity of waste received from domestic sources</b>	<b>Quantity of waste imported (If any)</b>	<b>Units</b>
NA	India	Maharashtra	NA	NA	KL/Anum

2. Quantity in stock at the beginning of the year

<b>Waste Name/Category</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

3. Quantity of waste recycled or co-processed or used

<b>Name of Waste</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	NA	KL/Anum

4. Quantity of products dispatched (wherever applicable)

<b>Name of product</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

5. Total quantity of waste generated

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

6. Total quantity of waste disposed

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

7. Total quantity of waste re-exported (If Applicable)

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

8. Quantity in storage at the end of the year

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

Personal Details

<b>Place</b>	<b>Date</b>	<b>Designation</b>
Plot No- C-1 & C-1 Part, Vile- Bhagad MIDC, Mangaon,402308	2022-06-23	Director/ Authorised Signatory



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Annual Return Hz. Waste

for FY-2021-2022

Form-IV- CRM-Line

Annexure-IV

**Form 4**

See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

**FORM FOR FILING ANNUAL RETURNS**

[ To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceeding period April to march]

**Unique Application Number:**

MPCB-HW\_ANNUAL\_RETURN-0000028668

**Submitted On:**

22-06-2022

**Submitted for Year:**

April 2021 to March 2022

**Name of the generator/operator of facility**

POSCO Maharashtra Steel Pvt Ltd.

**Address of the unit/facility**

C-1/1 & C-1 (Part-1), MIDC Vile- Bhagad, Tal-Mangaon, Dist-Raigad

**1b. Authorization Number**

1.0/BO/CAC-cell/Auto-renewal/UAN No- 0000047766-18/CAC-1806000029,date 01/06/2018

**Date of issue**

Jun 1, 2018

**Date of validity of consent**

Jun 30, 2023

**2. Name of the authorised person**

Kwang Soo Kim

**Full address of authorised person**

Plot No- C-1 & C-1 Part , Vile-Bhagad MIDC, Tal-Mangaon, Dist- Raigad, 402308

**Telephone**

02140661182

**Fax**

02140661198

**Email**

kks@posco.com

3.Production during the year (product wise), wherever applicable

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Iron & Steel	Cold Rolled Coils	1000000.0000	744149	Ton/Y
Iron & Steel	Full Hard Coils	800000.0000	36448	Ton/Y

**PART A: To be filled by hazardous waste generators**

**1. Total Quantity of waste generated category wise**

Type of hazardous waste	Waste Name	Consented Quantity	Quantity	UOM
5.1 Used or spent oil	Used Oil	198.000	25.75	MTA
5.2 Wastes or residues containing oil	Grinding sludge from Roll Shop	180.000	108.81	MTA
5.2 Wastes or residues containing oil	Coolant filter waste & Oily sludge	480.000	187.31	MTA
12.1 Acidic and alkaline residues	Alkali Sludge	48.000	39.28	MTA
13.1 Spent pickling liquor	Spent Acid from Pickling (HCL)	90000.000	43726	KL/Anum
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Discarded Containers, MS/HDPE drums, IBC's	6000.000	4893	numbers/anum
35.3 Chemical sludge from waste water treatment	ETP Sludge	960.000	699.46	MTA

2. Quantity dispatched category wise.

<b>Type of Waste</b>	<b>Quantity of waste</b>	<b>UOM</b>	<b>Dispatched to</b>	<b>Facility Name</b>
5.1 Used or spent oil	25.75	MTA	Recycler or Actual user	M/s. Lubstar Petrochem Industries , C-29, MIDC Mahad.
5.2 Wastes or residues containing oil	108.81	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF).
5.2 Wastes or residues containing oil	187.31	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF).
12.1 Acidic and alkaline residues	39.28	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF).
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	4893	numbers/anum	Recycler or Actual user	M/s. Jai Jalaram Trading Company., Plot No.: -380, Shree Malang Road, Bhalgaon, Tal-Ambernath, Dist-Thane.
35.3 Chemical sludge from waste water treatment	699.46	MTA	Disposal Facility	Mumbai Waste Management Ltd , P-32 Taloja MIDC (CHWTSDF).

3. Quantity Utilised in-house, If any

<b>Type of Waste</b>	<b>Name of Waste</b>	<b>Quantity of Waste</b>	<b>UOM</b>
13.1 Spent pickling liquor	Spent Acid from Pickling (HCL)	43726	KL/Anum

4. Quantity in storage at the end of the year

<b>Type of Waste</b>	<b>Name of Waste</b>	<b>Quantity of Waste</b>	<b>UOM</b>
	NA	0	KL/Anum

## PART B: To be filled by Treatment, storage, and disposal facility operators

<b>1. Total Quantity received</b>	<b>UOM</b>	<b>State Name</b>
NA	KL/Anum	Maharashtra
<b>2. Quantity in stock at the beginning of the year</b>	<b>UOM</b>	
NA	KL/Anum	
<b>3. Quantity treated</b>	<b>UOM</b>	
NA	KL/Anum	
4. Quantity disposed in landfills as such and after treatment		
<b>Direct landfilling</b>	<b>UOM</b>	
NA	KL/Anum	
<b>Landfill after treatment</b>	<b>UOM</b>	
NA	KL/Anum	
<b>5. Quantity incinerated (if applicable)</b>	<b>UOM</b>	
NA	KL/Anum	
<b>6. Quantity processed other than specified above</b>	<b>UOM</b>	
NA	KL/Anum	
<b>7. Quantity in storage at the end of the year.</b>	<b>UOM</b>	
NA	KL/Anum	

**PART C: To be filled by recyclers or co-processors or other users**

1. Quantity of waste received during the year

<b>Waste Name/Category</b>	<b>Country Name</b>	<b>State Name</b>	<b>Quantity of waste received from domestic sources</b>	<b>Quantity of waste imported(If any)</b>	<b>Units</b>
NA	India	Maharashtra	NA	NA	KL/Anum

2. Quantity in stock at the beginning of the year

<b>Waste Name/Category</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

3. Quantity of waste recycled or co-processed or used

<b>Name of Waste</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	NA	KL/Anum

4. Quantity of products dispatched (wherever applicable)

<b>Name of product</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

5. Total quantity of waste generated

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

6. Total quantity of waste disposed

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

7. Total quantity of waste re-exported (If Applicable)

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

8. Quantity in storage at the end of the year

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

Personal Details

<b>Place</b>	<b>Date</b>	<b>Designation</b>
Plot No- C-1 & C-1 Part, Vile- Bhagad MIDC, Mangaon,402308	2022-06-22	Director/ Authorised Signatory



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Annual Returns TTZ. Vile -  
for FY - 2021-2022  
Form - IV - ACL - Line.

**Form 4**

See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

**FORM FOR FILING ANNUAL RETURNS**

[ To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceeding period April to march]

**Unique Application Number:**

MPCB-HW\_ANNUAL\_RETURN-0000028082

**Submitted On:**

17-06-2022

**Submitted for Year:**

April 2021 to March 2022

**Name of the generator/operator of facility**

JSCO Maharashtra Steel Pvt Ltd.

**Address of the unit/facility**

C-1/1 & C-1 (Part-1), MIDC Vile- Bhagad,  
Tal-Mangaon, Dist-Raigad

**1b. Authorization Number**

1.0/BO/CAC-Cell/UAN No:92026-20/Autorenewal CAC-2006000453,  
date:10/06/2020

**Date of issue**

Jul 1, 2020

**Date of validity of consent**

Jun 30, 2025

**2. Name of the authorised person**

Kwang Soo Kim

**Full address of authorised person**

Plot No- C-1 & C-1 Part , Vile-Bhagad  
MIDC, Tal-Mangaon, Dist- Raigad, 402308

**Telephone**

02140661182

**Fax**

02140661198

**Email**

kks@posco.com

3. Production during the year (product wise), wherever applicable

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Iron & Steel	Cold Rolled Non-Grain Oriented Electrical Steel (CRNO Coil)	300000.0000	190524	Ton/Y

**PART A: To be filled by hazardous waste generators**

**1. Total Quantity of waste generated category wise**

Type of hazardous waste	Waste Name	Consented Quantity	Quantity	UOM
5.1 Used or spent oil	Used Oil	24.000	10.4	MTA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Discarded empty containers, Drums, Barrels & IBC's	3600.000	670	numbers/anum
35.3 Chemical sludge from waste water treatment	ETP Sludge	460.800	260.46	MTA

**2. Quantity dispatched category wise.**

Type of Waste	Quantity of waste	UOM	Dispatched to	Facility Name
5.1 Used or spent oil	10.4	MTA	Recycler or Actual user	Lubstar Petrochem Industries , C-29, MIDC Mahad.
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	670	numbers/anum	Recycler or Actual user	M/s. Jai Jalaram Trading Company., Plot No.:380, Shree Malang Road, Bhalgaon, Tal-Ambarnath, Dist-Thane.

35.3 Chemical sludge from waste water treatment	260.46	MTA	Disposal Facility	Mumbai waste management Ltd , P-32 Taloja MIDC (CHWTSDF)
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3. Quantity Utilised in-house,If any

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	0	KL/Anum

4. Quantity in storage at the end of the year

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	0	KL/Anum

### PART B: To be filled bt Treatment,storage, and disposal facility operators

<b>1.Total Quantity received</b>	<b>UOM</b>	<b>State Name</b>
NA	KL/Anum	Maharashtra

<b>2. Quantity in stock at the beginning of the year</b>	<b>UOM</b>
NA	KL/Anum

<b>3. Quantity treated</b>	<b>UOM</b>
NA	KL/Anum

4. Quantity disposed in landfills as such and after treatment

<b>Direct landfilling</b>	<b>UOM</b>
NA	KL/Anum

<b>Landfill after treatment</b>	<b>UOM</b>
NA	KL/Anum

<b>5. Quantity incinerated (if applicable)</b>	<b>UOM</b>
NA	KL/Anum

<b>6. Quantiry processed other than specified above</b>	<b>UOM</b>
NA	KL/Anum

<b>7. Quantity in storage at the end of the year.</b>	<b>UOM</b>
NA	KL/Anum

### PART C: To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year

Waste Name/Category	Country Name	State Name	Quantity of waste received from domestic sources	Quantity of waste imported(If any)	Units
NA	India	Maharashtra	NA	NA	KL/Anum

2. Quantity in stock at the beginning of the year

Waste Name/Category	Quantity	UOM
NA	NA	KL/Anum

3. Quantity of waste recycled or co-procesed or used

Name of Waste	Type of Waste	Quantity	UOM
NA	NA	NA	KL/Anum

4. Quantity of products dispatched (wherever applicable)

Name of product	Quantity	UOM
NA	NA	KL/Anum

5. Total quantity of waste generated

Waste name/category	quantity	UOM
NA	NA	KL/Anum

6. Total quantity of waste disposed

Waste name/category	quantity	UOM
---------------------	----------	-----



NA

NA

KL/Anum

7. Total quantity of waste re-exported (If Applicable)

**Waste name/category**

**quantity**

**UOM**

NA

NA

KL/Anum

8. Quantity in storage at the end of the year

**Waste name/category**

**quantity**

**UOM**

NA

NA

KL/Anum

Personal Details

**Place**

**Date**

**Designation**

Plot No- C-1 & C-1Part, Vile- Bhagad MIDC, Mangaon,402308

2022-06-17

Director/ Authorised Signatory

POSCO  
MAHARASHTRA STEEL

**PMSPL/EHS/MPCB/CGL-HzW-12/2022**

**Date: 03<sup>rd</sup> January, 2023**

**To,**  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CGL Plant-Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party: Dec-2022**

**Ref: Format 1.0/CAC/UAN No.0000128520/CR/2204000648, Date-12/04/2022. Valid till - 28/02/2027**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, Period from **December-2022.**

**Details are as follows:**

S. No	Type of Haz. Waste	Waste Cat. No	Manifest No.	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP sludge	35.3	296269	09.240	MT	05/12/2022	<b>M/S. MWML (CHWTSDF) Taloja,</b> Raigad.
2			296413	08.700	MT	06/12/2022	
3			298078	07.540	MT	09/12/2022	
4			298108	11.300	MT	9/12/2022	
5			299813	8.300	MT	14/12/2022	
6			306027	11.780	MT	29/12/2022	
7	Discarded containers / Barrels	33.1	296420	20	Nos.	06/12/2022	<b>M/s. Jai Jalaram Trading Company.</b> Plot No.: 380, Shree Malang Road, Bhalgaon, Tal-Ambarnath, Dist-Thane
8			299790	120	Nos.	14/12/2022	
9			301854	120	Nos.	19/12/2022	
10			306078	120	Nos.	29/12/2022	
11	Zinc Dross	6.3	296674	28.440	MT	06/12/2022	<b>M/s. Navbharat Metalic Oxide</b> Industries Ltd., Plot No. 6-9, Survey No. 482, Village-Dabhel, Daman, 396210.
12			299171	30.136	MT	12/12/2022	
13			300520	30.576	MT	16/12/2022	
14			300724	17.86	MT	16/12/2022	
15			300909	7.288	MT	16/12/2022	
16			303537	28.078	MT	22/12/2022	
17			303539	23.424	MT	22/12/2022	
18			305077	24.062	MT	27/12/2022	
19			305080	23.452	MT	27/12/2022	
20			306326	17.75	MT	30/12/2022	
21	306840	29.466	MT	31/12/2022			

Kindly acknowledge the receipt of the same.

Thanking you,

**For POSCO Maharashtra Steel Pvt. Ltd.**

Pay  
08/01/2023

Sub Regional Office

Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402306

*(Handwritten Signature)*

**Atin Raut**

Sr. Manager –EHS



**Enclosure:**

Form No. 10 as mentioned above details.

PMSPL/EHS/MPCB/CGL-HzW-01/2023

Date: 02<sup>nd</sup> February, 2023

To,  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CGL Plant-Intimation of Hazardous Waste disposal to CHWTSDf & Authorized Party –Jan, 2023**

**Ref: Consent Order No: 1.0/BO/CAC-Cell/UAN No:-0000018375-16/CAC-1706000713, date- 16/06/2017**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDf & to authorized party as per the compliance of The Environment protection Act 1986 ,under The-Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, Period from **Jan, 2023.**

**Details are as follows-**

S. No	Type of Haz. Waste	Waste Cat.	Manifest No	QTY.	UOM	Date of Disposal	Name of CHWTSDf/ Authorized Party
1	ETP sludge	35.3	307433	7.64	MT	2/1/2023	M/s. MWML Taloja, Raigad (CHWTSDf)
2			308607	7.6	MT	5/1/2023	
3			310117	8.28	MT	9/1/2023	
4			313092	8.7	MT	16/01/2023	
5			314277	6.61	MT	19/01/2023	
6			316069	6.62	MT	24/01/2023	
7	Discarded containers / Barrels	33.1	311195	22	Nos.	11/01/2023	M/s. National Enterprises. Plot No. K/1,2,3, Survey No-69, Tal. & Dist. Thane- 400612
8	Waste Chromic Solution	N.A.	308699	06.260	MT	05/01/2023	M/s. MWML Taloja, (CHWTSDf)
9	Waste Resin	N.A.	308775	01.880	MT	05/01/2023	M/s. MWML Taloja, (CHWTSDf)
10	Zinc Dross	6.3	311758	28.9	MT	12/1/2023	M/s. Navbharat Metallic Oxide Industries Ltd., Plot No. 6-9, Survey No.482,Village-Dabhel, Daman, 396210.
11			313884	17.61	MT	18/01/2023	
12			313894	9.364	MT	18/01/2023	
13			316090	27.92	MT	24/01/2023	
14			318095	9.432	MT	30/01/2023	
15			318096	8.952	MT	30/01/2023	
16			318309	9.214	MT	31/01/2023	
17			318342	24.97	MT	31/01/2023	
18	Zinc Dross	6.3	318097	27.926	MT	30/01/2023	M/S. BDJ OXIDES PRIVATE LIMITED, Plot No.10,Attivaram Industrial Park,Nellore,Mondal,Andhra Pradesh

Kindly acknowledge the receipt of the same.

Thanking you,

**For POSCO Maharashtra Steel Pvt. Ltd.**

  
**Mr. Atin Raut**  
Sr. Manager (EHS)



  
02/02/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402306

Encl.: Form No. 10 as mentioned above details.

Feb 2023

PMSPL/EHS/MPCB/CGL-HzW-02/2023

Date: 01<sup>st</sup> March, 2023

To,  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CGL Plant-Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party –Feb, 2023**

**Ref: Consent Order No: 1.0/BO/CAC-Cell/UAN No:-0000018375-16/CAC-1706000713, date- 16/06/2017**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, Period from **Feb- 2023.**

**Details are as follows-**

S. No	Type of Haz. Waste	Waste Cat.	Manifest No	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP sludge	35.3	320227	7.240	MT	06/02/2023	M/s. MWML Taloja, Raigad (CHWTSDF)
2			322139	6.680	MT	10/02/2023	
3			322859	7.040	MT	13/02/2023	
4			325404	7.610	MT	20/02/2023	
5			328039	12.230	MT	27/02/2023	
6	Alkali Sludge	12.2	323026	4.870	MT	13/02/2023	M/s. MWML Taloja, Raigad
7			325418	10.250	MT	20/02/2023	
8	Discarded containers/Barrels	33.1	320493	130	Nos.	06/02/2023	M/s. National Enterprises, Plot No. K/1,2,3, Tal. & Dist. Thane- 400612
9			325785	22	Nos.	21/02/2023	
10			326870	120	Nos.	24/02/2023	
11			328094	824	Nos.	27/02/2023	
12	Zinc Dross	6.3	324702	24.402	MT	17/02/2023	M/s. Navbharat Metallic Oxide Industries Ltd., Plot No. 6-9, Survey No.482,Village-Dabhel, Daman, 396210.
13			326525	23.502	MT	23/02/2023	
14			326844	17.690	MT	24/02/2023	
15			326850	08.296	MT	24/02/2023	
16			328100	23.192	MT	27/02/2023	
17	Used Oil / Spent Oil	5.1	323279	3.270	MT	14/02/2023	M/S. Lub Star Petro-chem Ind., Plot no C-29, MIDC Mahad, Tal-Mahad, Dist-Raigad, 402301

Kindly acknowledge the receipt of the same.

Thanking you,

**For POSCO Maharashtra Steel Pvt. Ltd.**

**Mr. Atin Raut**  
Sr. Manager (EHS)



*Atin Raut*  
14/03/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402308

Encl.: Form No. 10 as mentioned above details.

PMSPL/EHS/MPCB/CGL-HzW-04/2023

Date: 04<sup>th</sup> April, 2023

To,  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CGL Plant-Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party –Mar, 2023**

**Ref: Consent Order No: 1.0/BO/CAC-Cell/UAN No:-0000018375-16/CAC-1706000713, date- 16/06/2017**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, Period from **MARCH-2023.**

**Details are as follows-**

S. No	Type of Haz. Waste	Waste Cat.	Manifest No	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP sludge	35.3	329527	13.01	MT	2/3/2023	M/s. MWML Taloja, Raigad (CHWTSDF)
2			330196	12.79	MT	4/3/2023	
3			331174	12.600	MT	8/3/2023	
4			334929	10.660	MT	17/03/2023	
5			337092	12.370	MT	23/03/2023	
6			339310	12.140	MT	28/03/2023	
7	Discarded containers/Barrels	33.1	333316	120	Nos.	13/03/2023	M/s. National Enterprises, Plot No. K/1,2,3, Tal. & Dist. Thane
8			334491	22	Nos.	16/03/2023	
9	Zinc Dross	6.3	333311	29.010	MT	13/03/2023	M/s. Navbharat Metalic Oxide Industries Ltd., Plot No. 6-9, Survey No.482,Village-Dabhel, Daman, 396210.
10			334056	28.290	MT	15/03/2023	
11			337111	17.470	MT	23/03/2023	
12			337128	28.788	MT	23/03/2023	
14			340794	29.992	MT	30/03/2023	
15			340829	29.034	MT	30/03/2023	
16			341776	29.182	MT	31/03/2023	
17	Zinc Dross	6.3	338795	23.362	MT	27/03/2023	M/S. BDJ OXIDES Pvt. Ltd. Plot No.10, Attivaram Ind. Park, Nellore, Mondal Ozili, Sri Potti, Sriramulu Nellore, Andhra Pradesh

Kindly acknowledge the receipt of the same.

Thanking you,

**For POSCO Maharashtra Steel Pvt. Ltd.**

  
**Mr. Atin Raut**  
Sr. Manager (EHS)



  
21/04/2023  
Sub-Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402309

Encl.: Form No. 10 as mentioned above details.

**PMSPL/EHS/MPCB/CGL-HzW-04/2023**

**Date: 04<sup>th</sup> May, 2023**

**To,**  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CGL Plant-Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party-Apr, 2023**

**Ref: Consent Order No: 1.0/BO/CAC-Cell/UAN No:-0000018375-16/CAC-1706000713, date- 16/06/2017**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, Period from **APRIL-2023**.

**Details are as follows-**

S. No	Type of Haz. Waste	Waste Cat.	Manifest No	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP sludge	35.3	346838	07.310	MT	13/04/2023	M/s. MWML Taloja, Raigad (CHWTSDF)
2			351050	05.900	MT	24/04/2023	
3			352105	11.830	MT	27/04/2023	
4	Discarded containers/Barrels	33.1	347348	120	Nos.	14/04/2023	M/s. National Enterprises, Plot No. K/1,2,3, Tal. & Dist. Thane
5			348892	130	Nos.	20/04/2023	
6			352415	120	Nos.	28/04/2023	
7	Zinc Dross	6.3	345323	29.554	MT	10/4/2023	M/S. RUBAMIN PRIVATE Ltd., R. S.No.115, Village- Pratappura, Tal-Halol, Panchmahal, Dist-Gujarat- 389350
8			345329	29.394	MT	10/4/2023	
9			347259	28.968	MT	14/4/2023	
10			347266	29.146	MT	14/4/2023	
11			350348	29.674	MT	21/4/2023	
12			352115	28.808	MT	27/4/2023	
13	352548	29.424	MT	28/4/2023			
14	Used Oil / Spent Oil	5.1	351146	03.400	MT	24/04/2023	M/S. Lub Star Petro-chem Industries, Plot no C-29, MIDC Mahad, Tal-Mahad, Dist-Raigad, 402301

Kindly acknowledge the receipt of the same.

Thanking you,

**For POSCO Maharashtra Steel Pvt. Ltd.**

*Atin Raut*  


**Mr. Atin Raut**  
AGM- Manager (EHSI)

*Atin Raut*  
**12/05/2023**  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402301

**Encl.: Form No. 10 as mentioned above details.**

**PMSPL/EHS/MPCB/CRM-HzW-12/2022**

**Date: 02<sup>nd</sup> January, 2023**

**To,**  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CRM Plant- Intimation of Hz Waste disposal to CHWTSDf & Authorized Party: December-2022**

**Ref: 1.0/BO/CAC-Cell/Auto-renewal/UAN No- 000047766-18/CAC-1806000029, date- 01/06/2018**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDf & to authorized party as per the Compliance of The Environment protection Act 1986 , under The Hazardous & Other Wastes (Management & Trans Boundary Movement ) Rules 016, for **December-2022.**

**Details are as follows-**

S.N	Type of Hazardous Waste	WCN	Manifest Doc. No	QTY.	UOM	Date of Disposal	Name of CHWTSDf/ Authorized Party
1	ETP Sludge	35.3	295258	14.900	MT	02/12/2022	MWML, Taloja MIDC (CHWTSDf)
2			296838	11.860	MT	07/12/2022	
3			298108	11.300	MT	09/12/2022	
4			299112	14.700	MT	12/12/2022	
5			299125	10.620	MT	12/12/2022	
6			299127	11.500	MT	12/12/2022	
7			299550	11.500	MT	13/12/2022	
8			299815	08.580	MT	14/12/2022	
9			304740	14.540	MT	26/12/2022	
10	Discarded Containers / Barrels / IBC's	33.1	296840	20	Nos.	07/12/2022	M/s. Jai Jalaram Trading Co. Plot No.: 380, Shree Malang Rd. Tal- Ambernath, Thane.
11			297387	120	Nos.	08/12/2022	
12			303306	120	Nos.	22/12/2022	
13	Waste Residue Containing Oil	5.2	295265	05.140	MT	02/12/2022	MWML, Taloja MIDC (CHWTSDf)
14			296992	02.900	MT	07/12/2022	
15			299541	08.100	MT	13/12/2022	
16			302033	08.460	MT	19/12/2022	
17	Grinding Sludge	5.2	294677	06.160	MT	01/12/2022	M/S. MWML (CHWTSDf) Taloja, Raigad.
18			302541	06.200	MT	20/12/2022	
19	Alkali Sludge	12.2	299811	10.400	MT	14/12/2022	MWML, Taloja
20	Spent Acid from Pickling (Waste HCL)	13.1	NA	4120	KL	Dec, 2022	Reprocessed in ARP and reused in plant (at Pickling process)

Kindly acknowledge the receipt of the same.

Thanking you,  
Yours Faithfully,

**For POSCO Maharashtra Steel Pvt. Ltd.**

**Mr. Atin Raut**  
Sr. Manager - EHS



*Ref.*  
08/01/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402308

**Enclosure:-** Form No. 10 as mentioned above details.

PMSPL/EHS/MPCB/CRM-HzW-01/2023

Date: 02<sup>nd</sup> February, 2023

To,  
The Sub-Regional Officer,  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

Sub: CRM Plant- Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party – Jan-2023

Ref: 1.0/BO/CAC-Cell/Auto-renewal/UAN No- 0000047766-18/CAC-1806000029, date- 01/06/2018

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the Compliance of The Environment protection Act 1986 , under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, for Jan, 2023.

Details are as follows-

S.N	Type of Hazardous Waste	WCN	Manifest Doc. No	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP Sludge	35.3	307236	11.78	MT	2/1/2023	MWML, Taloja MIDC (CHWTSDF)
2			308603	13.12	MT	5/1/2023	
3			310191	13.12	MT	9/1/2023	
4			312114	13.16	MT	13/01/2023	
5			313053	13.36	MT	16/01/2023	
6			314276	14.85	MT	19/01/2023	
7			315006	10.61	MT	21/01/2023	
8			316068	14.24	MT	24/01/2023	
9			317841	15.27	MT	30/01/2023	
10			318411	7.56	MT	31/01/2023	
11	Used Oily Cotton Waste	5.2	308782	03.740	MT	05/1/2023	MWML, Taloja MIDC (CHWTSDF)
12			316463	03.080	MT	25/1/2023	
13	Discarded containers / Barrels /IBC's	33.1	313398	22	Nos.	17/01/2023	M/s. National Enterprises. Plot No. K/1,2,3, Survey No-69, Nr. Tal. & Dist. Thane.
14			316231	22	Nos.	25/01/2023	
15	Grinding sludge (Roll shop)	5.2	310193	5.42	MT	9/1/2023	MWML Taloja MIDC (CHWTSDF)
16			314360	8.27	MT	19/1/2023	
17	Spent acid from pickling (Waste HCL)	13.1	NA	4109	KL	Jan, 2023	Reprocessed in ARP and reused in plant (at Pickling process)

Kindly acknowledge the receipt of the same.

Thanking you,

Yours Faithfully,

For POSCO Maharashtra Steel Pvt. Ltd.

  
Atin Raut

Sr. Manager (EHSI)



Encl.: Form No. 10 as mentioned above details.

  
02/02/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402306



**PMSPL/EHS/MPCB/CRM-HzW-02/2023**

**Date: 02<sup>nd</sup> March, 2023**

To,  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CRM Plant- Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party – Feb-2023**

**Ref: 1.0/BO/CAC-Cell/Auto-renewal/UAN No- 0000047766-18/CAC-1806000029, date- 01/06/2018**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the Compliance of The Environment protection Act 1986 , under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules '016, for **Feb-2023**.

**Details are as follows-**

S.N	Type of Hazardous Waste	WCN	Manifest Doc. No	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP Sludge	35.3	318782	13.780	MT	1/2/2023	MWML, Taloja MIDC (CHWTSDF)
2			319196	13.200	MT	2/2/2023	
3			319695	14.280	MT	4/2/2023	
4			320757	11.050	MT	07/02/2023	
5			322050	13.620	MT	10/02/2023	
6			323328	12.790	MT	14/02/2023	
7			324349	11.490	MT	16/02/2023	
8			325426	12.380	MT	20/02/2023	
9			326680	12.580	MT	24/02/2023	
10	Residue Containing Oil (Filter residue)	5.2	319747	07.270	MT	04/02/2023	MWML, Taloja MIDC (CHWTSDF)
11			324090	06.83	MT	16/02/2023	
12			324353	06.050	MT	16/02/2023	
13			324484	03.030	MT	17/02/2023	
14			324698	06.930	MT	17/02/2023	
15	Discarded containers / Barrels /IBC's	33.1	321196	130	Nos.	08/02/2023	M/s. National Enterprises. Plot No. K/1,2,3, Survey No-69, Nr. Tal. & Dist. Thane.
16			321920	130	Nos.	10/02/2023	
17			324356	22	Nos.	16/02/2023	
18	Grinding sludge (Roll shop)	5.2	320485	05.390	MT	06/02/2023	MWML Taloja MIDC (CHWTSDF)
19			321454	0.800	MT	09/02/2023	
20	Spent acid from pickling (Waste HCL)	13.1	NA	4151	KL	Feb, 2023	Reprocessed in ARP & reused in plant (at Pickling process)
21	Used Oil / Spent Oil	5.1	323282	5.760	MT	14/02/2023	M/S. Lub Star Petro-chem Industries, Plot no C-29, MIDC Mahad, Dist-Raigad,

Kindly acknowledge the receipt of the same.

**Thanking you,**

Yours Faithfully,

**For POSCO Maharashtra Steel Pvt. Ltd.**

*Atin Raut*  
**Atin Raut**  
Sr. Manager (EHS)



*Ambedkar*  
**14/03/2023**  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402300

**PMSPL/EHS/MPCB/CRM-HzW-04/2023**

**Date: 03<sup>rd</sup> April, 2023**

**To,**  
**The Sub-Regional Officer,**  
 Maharashtra Pollution Control Board,  
 MIDC Area, Mahad, Raigad.

**Sub: CRM Plant- Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party – Mar-2023**

**Ref: 1.0/BO/CAC-Cell/Auto-renewal/UAN No- 0000047766-18/CAC-1806000029, date- 01/06/2018**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the Compliance of The Environment protection Act 1986 , under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, for **MARCH-2023**.

**Details are as follows-**

S.N	Type of Hazardous Waste	WCN	Manifest Doc. No	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP Sludge	35.3	331914	11.900	MT	10/03/2023	MWML, Taloja MIDC (CHWTSDF)
2			335729	11.500	MT	20/03/2023	
3			341616	13.480	MT	31/03/2023	
4	Residue Containing Oil (Filter residue)	5.2	328737	07.010	MT	01/03/2023	MWML, Taloja MIDC (CHWTSDF)
5			334063	06.680	MT	15/03/2023	
6			334445	07.150	MT	16/03/2023	
7			335980	03.780	MT	21/03/2023	
8			336088	0.680	MT	21/03/2023	
9			338774	03.010	MT	27/03/2023	
10	Alkali Sludge	12.2	335971	02.960	MT	21/03/2023	MWML, Taloja MIDC
11	Discarded containers / Barrels /IBC's	33.1	330849	120	Nos.	06/03/2023	M/s. National Enterprises. Plot No. K/1,2,3, Survey No-69, Nr. Tal. & Dist. Thane.
12			335793	22	Nos.	20/03/2023	
13			338782	130	Nos.	27/03/2023	
14	Grinding sludge (Roll shop)	5.2	331615	05.750	MT	09/03/2023	MWML Taloja MIDC (CHWTSDF)
15			341733	05.360	MT	31/03/2023	
16	Spent acid from Pickling (Waste HCL)	13.1	NA	4852	KL	Mar, 2023	Reprocessed in ARP & reused in plant (at Pickling process)

Kindly acknowledge the receipt of the same.

**Thanking you,**

Yours Faithfully,

**For POSCO Maharashtra Steel Pvt. Ltd.**

*Atin Raut*

**Atin Raut**  
Sr. Manager (EHSI)



*Raut*  
21/04/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402309

PMSPL/EHS/MPCB/CRM-HzW-04/2023

Date: 04<sup>th</sup> May, 2023

To,  
The Sub-Regional Officer,  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: CRM Plant- Intimation of Hazardous Waste disposal to CHWTSDF & Authorized Party – April-2023**

**Ref: 1.0/BO/CAC-Cell/Auto-renewal/UAN No- 0000047766-18/CAC-180600029, date- 01/06/2018**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to CHWTSDF & to authorized party as per the Compliance of The Environment protection Act 1986 , under The Hazardous & other Wastes (Management & Trans boundary movement ) Rules 2016, for **APRIL-2023.**

**Details are as follows-**


S.N	Type of Hazardous Waste	WCN	Manifest Doc. No	QTY.	UOM	Date of Disposal	Name of CHWTSDF/ Authorized Party
1	ETP Sludge	35.3	345304	13.990	MT	10/04/2023	MWML, Taloja MIDC (CHWTSDF)
2			346113	10.970	MT	12/04/2023	
3			348743	11.430	MT	20/04/2023	
4			350058	14.390	MT	18/04/2023	
5	Residue Containing Oil (Filter residue)	5.2	342927	07.130	MT	03/03/2023	MWML, Taloja MIDC (CHWTSDF)
6			345226	04.590	MT	10/04/2023	
7			347165	01.940	MT	14/04/2023	
8	Discarded containers / Barrels /IBC's	33.1	345978	20	Nos.	11/04/2023	M/s. National Enterprises. Plot No. K/1,2,3, Survey No-69, Nr. Tal. & Dist. Thane.
9			348892	22	Nos.	18/04/2023	
10			351814	22	Nos.	26/04/2023	
11	PCM- Scale Breaker Waste	NA	348320	08.600	MT	17/04/2023	MWML, Taloja MIDC (CHWTSDF)
12	Spent acid from Pickling (Waste HCL)	13.1	NA	4441	KL	April, 2023	Reprocessed in ARP & reused in plant (at Pickling process)
13	Used Oil / Spent Oil	5.1	351149	06.760	MT	24/04/2023	M/S. Lub Star Petro-chem Industries, Plot no C-29, MIDC Mahad, Tal-Mahad, Dist-Raigad, 402301

Kindly acknowledge the receipt of the same.

Thanking you,

Yours Faithfully,

For POSCO Maharashtra Steel Pvt. Ltd.

  
Atin Raut  
AGM- Manager (EHSI)



  
12/05/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402301

Encl.: Form No. 10 as mentioned above details.

PMSPL/EHS/MPCB/ACL-HzW-12/2022

Date: 03<sup>rd</sup> January, 2023

To,  
**The Sub-Regional Officer,**  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Sub: ACL Plant- Intimation of Hazardous Waste disposal to Authorized Party: Dec-2022**

**Ref: 1.0/BO/CAC-Cell/UAN No:-92026-20 / Autorenewal CAC-2006000453, date- 10/06/2020**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No.10 ) for which we have sent hazardous waste to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement Rules 2016 from period **December-2022.**

Details are as follows:-

S. No	Type of Hz. Waste	Waste Cat. No	Manifest No	QTY.	UOM	Date of disposal	Name of CHWTSDF/ Authorized Party
1			300776	13.100	MT	16/12/2022	MWML (CHWTSDF) Taloja, Raigad
2	ETP Sludge	35.3	301834	14.200	MT	19/12/2022	
3			303740	14.160	MT	26/12/2022	

Kindly acknowledge the receipt of the same.

Thanking you,

**For POSCO Maharashtra Steel Pvt. Ltd.**


**Atin Raut**  
Sr. Manager -EHS

*Per:*  
03/01/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402308

**Enclosure:-**

Form No. 10 as mentioned above details.

PMSPL/EHS/MPCB/ACL-HzW-01/2023

Date: 02<sup>nd</sup> February, 2023

To,  
The Sub-Regional Officer,  
Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Subject: ACL Plant-Intimation of Hazardous Waste disposal to Authorized Party-- Jan, 2023**

Ref: 1.0/BO/CAC-Cell/UAN No:-92026-20 / Autorenewal CAC-2006000453, date- 10/06/2020

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement Rules 2016, Period from **Jan, 2023**.

Details are as follows:-

S. No	Type of Hz. Waste	Waste Cat. No.	Manifest No.	QTY.	UOM	Date of disposal	Name of CHWTSDF/ Authorized party
1	ETP Sludge	35.3	316854	11.800	MT	27/01/2023	MWML (CHWTSDF) Taloja, Raigad

Kindly acknowledge the receipt of the same.

Thanking you,

For POSCO Maharashtra Steel Pvt. Ltd.

**Atin Raut**  
Sr. Manager (EHS)



Encl.: Form No. 10 as mentioned above details.

Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402306

Feb' 23

PMSPL/EHS/MPCB/ACL-HzW-02/2023

Date: 02<sup>nd</sup> March, 2023

To,

The Sub-Regional Officer,

Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Subject: ACL Plant-Intimation of Hazardous Waste disposal to Authorized Party– FEB, 2023**

**Ref: 1.0/BO/CAC-Cell/UAN No:-92026-20 / Autorenewal CAC-2006000453, date- 10/06/2020**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement Rules 2016, Period from **FEB-2023**.

Details are as follows:-

S. No	Type of Hz. Waste	Waste Cat. No.	Manifest No.	QTY.	UOM	Date of disposal	Name of CHWTSDF/ Authorized party
1	ETP Sludge	35.3	326007	11.800	MT	22/02/2023	MWML (CHWTSDF) Taloja, Raigad
2	Discarded Drums & Barrels	33.1	322908	22	Nos.	13/02/2023	M/s. Jai Jalaram Trading Company. Plot No.380, Shree Malang Road, Bhalgaon, Tal-Ambarnath, Dist-Thane, 421306
3	Used Oil / Spent Oil	5.1	323289	1.610	MT	14/02/2023	M/S. Lub Star Petro-chem Industries, Plot no C-29, MIDC Mahad, Tal-Mahad, Dist-Raigad, 402301
4	Glass Wool	NA	321381	1.420	MT	09/02/2023	MWML, MIDC Taloja

Kindly acknowledge the receipt of the same.

Thanking you,

For POSCO Maharashtra Steel Pvt. Ltd.

  
Atin Raut

Sr. Manager (EHS)

Encl.: Form No. 10 as mentioned above details.



  
14/03/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402309

Mar 23

PMSPL/EHS/MPCB/ACL-HzW-04/2023

Date: 04<sup>th</sup> April, 2023

To,

The Sub-Regional Officer,

Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Subject: ACL Plant-Intimation of Hazardous Waste disposal to Authorized Party– March, 2023**

**Ref: 1.0/BO/CAC-Cell/UAN No:-92026-20 / Autorenewal CAC-2006000453, date- 10/06/2020**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement Rules 2016, Period from **MARCH-2023**.

Details are as follows:-

S. No	Type of Hz. Waste	Waste Cat. No.	Manifest No.	QTY.	UOM	Date of disposal	Name of CHWTSDF/ Authorized party
1	ETP Sludge	35.3	333690	12.670	MT	14/03/2023	MWML (CHWTSDF) Taloja, Raigad
2			334930	07.400	MT	17/03/2023	
3	Discarded Drums & Barrels	33.1	340847	22	Nos.	30/03/2023	M/s. Jai Jalaram Trading Company. Plot No.380, Shree Malang Road, Bhalgaon, Tal-Ambernath, Dist-Thane, 421306

Kindly acknowledge the receipt of the same.

Thanking you,

**For POSCO Maharashtra Steel Pvt. Ltd.**

*Raj*  
21/04/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402306



**Atin Raut**

Sr. Manager (EHS)

Encl.: Form No. 10 as mentioned above details.

April 2023  
ACL plant

PMSPL/EHS/MPCB/ACL-HzW-04/2023

Date: 03<sup>rd</sup> May, 2023

To,

The Sub-Regional Officer,

Maharashtra Pollution Control Board,  
MIDC Area, Mahad, Raigad.

**Subject: ACL Plant-Intimation of Hazardous Waste disposal to Authorized Party– April, 2023**

**Ref: 1.0/BO/CAC-Cell/UAN No:-92026-20 / Autorenewal CAC-2006000453, date- 10/06/2020**

Dear Sir,

With reference to above subject, we would like to submit Hazardous Waste Manifest (Form No. 10 ) for which we have sent hazardous waste to authorized party as per the compliance of The Environment protection Act 1986 ,under The Hazardous & other Wastes (Management & Trans boundary movement Rules 2016, Period from **APRIL-2023.**

Details are as follows:-

S. No	Type of Hz. Waste	Waste Cat. No.	Manifest No.	QTY.	UOM	Date of disposal	Name of CHWTSDF/ Authorized party
1	ETP Sludge	35.3	344128	11.770	MT	05/04/2023	MWML (CHWTSDF) Taloja, Raigad
2			351053	12.150	MT	24/04/2023	
3	Discarded Drums & Barrels	33.1	351120	22	Nos.	24/04/2023	M/s. Jai Jalaram Trading Company. Plot No.380, Shree Malang Road, Bhalgaon, Tal-Ambarnath, Dist-Thane, 421306
4	Used Oil / Spent Oil	5.1	351143	1.810	MT	24/04/2023	M/S. Lub Star Petro-chem Industries, Plot no C-29, MIDC Mahad, Tal-Mahad, Dist-Raigad, 402301

Kindly acknowledge the receipt of the same.

Thanking you,

For POSCO Maharashtra Steel Pvt. Ltd.

*[Signature]*  
12/05/2023  
Sub Regional Office  
Maharashtra Pollution Control Board  
C.F.C. Building, MIDC, Mahad,  
Dist Raigad, Pin - 402309

*[Signature]*  
  
POSCO  
MAHARASHTRA STEEL PRIVATE LIMITED

Atin Raut

AGM- Manager (EHSI)

Encl.: Form No.10 as mentioned above details.





Sustainability

**Mumbai Waste Management Limited**  
**CERTIFICATE OF MEMBERSHIP**

M/s. Posco Maharashtra steel Pvt. Ltd.

*is a registered member of  
CHW-TSDF at MIDC - Taloja for  
safe and secure disposal of  
Hazardous waste.*

**Membership No: MWML-HZW - MHD - 3180**

**This Certificate is valid up to 31<sup>st</sup> Mar 2024**

Onkar Kulkarni  
Manager - BMD

Somnath Malgar  
Director



Sustainability

**Mumbai Waste Management Limited**  
**CERTIFICATE OF MEMBERSHIP**

M/s. Posco Maharashtra steel Pvt. Ltd.

*is a registered member of  
CHW-TSDF at MIDC - Talaja for  
safe and secure disposal of  
Hazardous waste.*

**Membership No: MWML-HZW - MHD - 3461**

**This Certificate is valid up to 31<sup>st</sup> Mar 2024**

---

Onkar Kulkarni  
Manager - BMD

---

Somnath Malgar  
Director

**MAHARASHTRA POLLUTION CONTROL BOARD**  
**REGIONAL LABORATORY, CHIPLUN**

Phone no. : 02355-261970  
Visit us at : <http://mpcb.gov.in>  
mail : [mpcbchiplunlab@mpcb.gov.in](mailto:mpcbchiplunlab@mpcb.gov.in)



Regional Laboratory, Chiplun,  
Maharashtra Pollution Control Board,  
105,106 Parkar Complex, 1st Floor,  
Behind Nagar Parishad, Chiplun, Dist.  
Ratnagiri. 415 605

NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/22-23/02/2

Date: 08/02/2023 06:28 PM

**Analysis Report-Water (JVS)**

<b>Field Sample ID :</b>	BR-0035567		
<b>Name &amp; Address of the Industry</b>	POSCO Maharashtra Steel Pvt. Ltd. R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing		
<b>Sampling Location :</b>	OTHERS (CGL Outlet) <input checked="" type="checkbox"/>		
<b>Lab code :</b>	MPCB/RL-Chiplun/JVS/22-23/1118		
<b>Sampling Method(s) :</b>	<b>Sample Details (Water/Air/HW) :</b>	Water	
<b>Sampling drawn by (Officer name):</b>	FO-Mahad (Mr. Sandip Sonawane)	<b>Sample Volume Received :</b>	
<b>Sample submitted by (Name) :</b>	FO-Mahad (Mr. Sandip Sonawane) (SRO-Mahad)	<b>Seal No. :</b>	240
<b>Date of Sample Collection.(dd/mm/yyyy) :</b>	05/12/2022 03:10 PM	<b>Date of Sample receipt to Laboratory (dd/mm/yyyy) :</b>	07/12/2022 03:15 PM
<b>Analysis start Date (dd/mm/yyyy). :</b>	08/12/2022 11:45 AM		

**Test Report**

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
1	pH	8.3			
2	Total Dissolved Solids(TDS)	472.0	mg/l		
3	Suspended Solids ( SS )	18.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
4	Biochemical Oxygen Demand(BOD)	4.0	mg/l		
5	Chloride	169.75	mg/l		
6	Chemical Oxygen Demand (COD)	44.0	mg/l		
7	Cyanide	NA	mg/l		
8	Sulphate	70.16	mg/l		
9	Cadmium	BDL	mg/l		
10	Chromium Total	BDL	mg/l		
11	Iron	0.55	mg/l		
12	Lead	BDL	mg/l		
13	Nickel	BDL	mg/l		
14	Zinc	0.10	mg/l		
15	Oil & Grease	BDL	mg/l		

### End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, \* Not covered under NABL scop.

**Comment (if any):**

**Comment for Amended Report:**

**Remark: - Note: This test report refers only to the sample submitted for the testing.**

**Results Compiled by:** Anil N Sandansing

**Results Approved by:** Anil N Sandansing

**Results Reviewed by:** Anil N Sandansing

**Anil N Sandansing**  
I/c Scientific Officer,  
Regional Laboratory,  
Chiplun,

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Note :

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6. MU values will be reported on request.

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Maharashtra Pollution Control Board,  
105,106 Parkar Complex, 1st Floor,  
Behind Nagar Parishad, Chiplun, Dist.  
Ratnagiri. 415 605

NABL Certificate No.:	Validity
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Laboratory MoEF Recognition :	Validity
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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/02/1	Date: 08/02/2023 06:28 PM
---	---------------------------

**Analysis Report-Water (JVS)**

Field Sample ID :	BR-0035566		
Name & Address of the Industry	POSCO Maharashtra Steel Pvt. Ltd. R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing		
Sampling Location :	OTHERS (CRM Outlet)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1117		
Sampling Method(s) :	Sample Details (Water/Air/HW) :	Water	
Sampling drawn by (Officer name):	FO-Mahad (Mr. Sandip Sonawane)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Mahad (Mr. Sandip Sonawane) (SRO-Mahad)	Seal No. :	240
Date of Sample Collection.(dd/mm/yyyy) :	05/12/2022 03:00 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	07/12/2022 03:13 PM
Analysis start Date (dd/mm/yyyy) :	08/12/2022 11:45 AM		

**Test Report**

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
1	pH	7.1			
2	Total Dissolved Solids(TDS)	117.0	mg/l		
3	Suspended Solids ( SS )	22.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
4	Biochemical Oxygen Demand(BOD)	4.0	mg/l		
5	Chloride	5.50	mg/l		
6	Chemical Oxygen Demand (COD)	40.0	mg/l		
7	Cyanide	NA	mg/l		
8	Sulphate	12.05	mg/l		
9	Cadmium	BDL	mg/l		
10	Chromium Total	BDL	mg/l		
11	Iron	0.63	mg/l		
12	Lead	BDL	mg/l		
13	Nickel	BDL	mg/l		
14	Zinc	BDL	mg/l		
15	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, \* Not covered under NABL scop.

**Comment (if any):**

**Comment for Amended Report:**

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**Results Compiled by:** Anil N Sandansing

**Results Approved by:** Anil N Sandansing

**Results Reviewed by:** Anil N Sandansing

**Anil N Sandansing**  
I/c Scientific Officer,  
Regional Laboratory,  
Chiplun,

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Behind Nagar Parishad, Chiplun, Dist.  
Ratnagiri. 415 605

NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/22-23/02/3

Date: 08/02/2023 06:28 PM

**Analysis Report-Water (JVS)**

<b>Field Sample ID :</b>	BR-0035568		
<b>Name &amp; Address of the Industry</b>	POSCO Maharashtra Steel Pvt. Ltd. R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing		
<b>Sampling Location :</b>	OTHERS (East Gate) ✓		
<b>Lab code :</b>	MPCB/RL-Chiplun/JVS/22-23/1119		
<b>Sampling Method(s) :</b>	<b>Sample Details (Water/Air/HW) :</b>	Water	
<b>Sampling drawn by (Officer name):</b>	FO-Mahad (Mr. Sandip Sonawane)	<b>Sample Volume Received :</b>	
<b>Sample submitted by (Name) :</b>	FO-Mahad (Mr. Sandip Sonawane) (SRO-Mahad)	<b>Seal No. :</b>	240
<b>Date of Sample Collection.(dd/mm/yyyy) :</b>	05/12/2022 03:20 PM	<b>Date of Sample receipt to Laboratory (dd/mm/yyyy) :</b>	07/12/2022 03:17 PM
<b>Analysis start Date (dd/mm/yyyy). :</b>	08/12/2022 11:45 AM		

**Test Report**

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
1	pH	7.9			
2	Total Dissolved Solids(TDS)	916.0	mg/l		
3	Suspended Solids ( SS )	14.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
4	Biochemical Oxygen Demand(BOD)	4.0	mg/l		
5	Chloride	317.90	mg/l		
6	Chemical Oxygen Demand (COD)	40.0	mg/l		
7	Cyanide	NA	mg/l		
8	Sulphate	129.64	mg/l		
9	Cadmium	BDL	mg/l		
10	Chromium Total	BDL	mg/l		
11	Iron	0.48	mg/l		
12	Lead	BDL	mg/l		
13	Nickel	BDL	mg/l		
14	Zinc	0.22	mg/l		
15	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, \* Not covered under NABL scop.

**Comment (if any):**

**Comment for Amended Report:**

**Remark: - Note: This test report refers only to the sample submitted for the testing.**

**Results Compiled by:** Anil N Sandansing

**Results Approved by:** Anil N Sandansing

**Results Reviewed by:** Anil N Sandansing

**Anil N Sandansing**  
I/c Scientific Officer,  
Regional Laboratory,  
Chiplun,

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NABL Certificate No.:

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Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/266

Date: 23/03/2023 02:17 PM

**Analysis Report-Water (JVS)**

<b>Field Sample ID :</b>	BR-0039452		
<b>Name &amp; Address of the Industry</b>	POSCO Maharashtra Steel Pvt. Ltd. R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing		
<b>Sampling Location :</b>	OTHERS (CRM Outlet)		
<b>Lab code :</b>	MPCB/RL-Chiplun/JVS/22-23/1562		
<b>Sampling Method(s) :</b>	<b>Sample Details (Water/Air/HW) :</b>	Water	
<b>Sampling drawn by (Officer name):</b>	FO-Mahad (Shri J. J. Kumbhar)	<b>Sample Volume Received :</b>	
<b>Sample submitted by (Name) :</b>	FO-Mahad (Shri J. J. Kumbhar) (SRO-Mahad)	<b>Seal No. :</b>	231
<b>Date of Sample Collection.(dd/mm/yyyy) :</b>	18/01/2023 03:15 PM	<b>Date of Sample receipt to Laboratory (dd/mm/yyyy) :</b>	24/01/2023 05:07 PM
<b>Analysis start Date (dd/mm/yyyy). :</b>	24/01/2023 06:34 PM		

**Test Report**

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
1	pH	8.5			
2	Total Dissolved Solids(TDS)	1278.0	mg/l		
3	Suspended Solids ( SS )	18.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
4	Biochemical Oxygen Demand(BOD)	4.0	mg/l		
5	Chloride	238.18	mg/l		
6	Chemical Oxygen Demand (COD)	20.0	mg/l		
7	Cyanide	NA	mg/l		
8	Sulphate	153.95	mg/l		
9	Cadmium	BDL	mg/l		
10	Chromium Hexavalent	BDL	mg/l		
11	Chromium Total	BDL	mg/l		
12	Iron	1.30	mg/l		
13	Lead	BDL	mg/l		
14	Nickel	0.04	mg/l		
15	Zinc	0.20	mg/l		
16	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, \* Not covered under NABL scop.

**Comment (if any):**

**Comment for Amended Report:**

**Remark: - Note: This test report refers only to the sample submitted for the testing.**

**Results Compiled by: Anil N Sandansing**

**Results Approved by: Anil N Sandansing**

**Results Reviewed by: Anil N Sandansing**

**Anil N Sandansing**  
I/c Scientific Officer,  
Regional Laboratory,  
Chiplun,

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Behind Nagar Parishad, Chiplun, Dist.  
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NABL Certificate No.:

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Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/258

Date: 23/03/2023 02:24 PM

**Analysis Report-Water (JVS)**

<b>Field Sample ID :</b>	BR-0039453		
<b>Name &amp; Address of the Industry</b>	POSCO Maharashtra Steel Pvt. Ltd. R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing		
<b>Sampling Location :</b>	OTHERS (EDR Outlet)		
<b>Lab code :</b>	MPCB/RL-Chiplun/JVS/22-23/1563		
<b>Sampling Method(s) :</b>	<b>Sample Details (Water/Air/HW) :</b>	Water	
<b>Sampling drawn by (Officer name):</b>	FO-Mahad (Shri J. J. Kumbhar)	<b>Sample Volume Received :</b>	
<b>Sample submitted by (Name) :</b>	FO-Mahad (Shri J. J. Kumbhar) (SRO-Mahad)	<b>Seal No. :</b>	231
<b>Date of Sample Collection.(dd/mm/yyyy) :</b>	18/01/2023 03:25 PM	<b>Date of Sample receipt to Laboratory (dd/mm/yyyy) :</b>	24/01/2023 05:07 PM
<b>Analysis start Date (dd/mm/yyyy). :</b>	24/01/2023 06:35 PM		

**Test Report**

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
1	pH	7.4			
2	Total Dissolved Solids(TDS)	52.0	mg/l		
3	Suspended Solids ( SS )	11.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
4	Biochemical Oxygen Demand(BOD)	6.0	mg/l		
5	Chloride	7.05	mg/l		
6	Chemical Oxygen Demand (COD)	20.0	mg/l		
7	Cyanide	NA	mg/l		
8	Sulphate	11.64	mg/l		
9	Cadmium	BDL	mg/l		
10	Chromium Hexavalent	BDL	mg/l		
11	Chromium Total	BDL	mg/l		
12	Iron	1.60	mg/l		
13	Lead	BDL	mg/l		
14	Nickel	0.02	mg/l		
15	Zinc	0.48	mg/l		
16	Oil & Grease	BDL	mg/l		

### End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, \* Not covered under NABL scop.

**Comment (if any):**

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**Results Compiled by: Anil N Sandansing**

**Results Approved by: Anil N Sandansing**

**Results Reviewed by: Anil N Sandansing**

**Anil N Sandansing**  
I/c Scientific Officer,  
Regional Laboratory,  
Chiplun,

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NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/259

Date: 23/03/2023 02:24 PM

**Analysis Report-Water (JVS)**

<b>Field Sample ID :</b>	BR-0039454		
<b>Name &amp; Address of the Industry</b>	POSCO Maharashtra Steel Pvt. Ltd. R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing		
<b>Sampling Location :</b>	OTHERS (East Gate)		
<b>Lab code :</b>	MPCB/RL-Chiplun/JVS/22-23/1564		
<b>Sampling Method(s) :</b>	<b>Sample Details (Water/Air/HW) :</b>	Water	
<b>Sampling drawn by (Officer name):</b>	FO-Mahad (Shri J. J. Kumbhar)	<b>Sample Volume Received :</b>	
<b>Sample submitted by (Name) :</b>	FO-Mahad (Shri J. J. Kumbhar) (SRO-Mahad)	<b>Seal No. :</b>	231
<b>Date of Sample Collection.(dd/mm/yyyy) :</b>	18/01/2023 03:40 PM	<b>Date of Sample receipt to Laboratory (dd/mm/yyyy) :</b>	24/01/2023 05:08 PM
<b>Analysis start Date (dd/mm/yyyy). :</b>	24/01/2023 06:35 PM		

**Test Report**

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
1	pH	8.3			
2	Total Dissolved Solids(TDS)	1364.0	mg/l		
3	Suspended Solids ( SS )	14.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU( If required)
4	Biochemical Oxygen Demand(BOD)	4.0	mg/l		
5	Chloride	538.33	mg/l		
6	Chemical Oxygen Demand (COD)	20.0	mg/l		
7	Cyanide	NA	mg/l		
8	Sulphate	98.90	mg/l		
9	Cadmium	BDL	mg/l		
10	Chromium Hexavalent	BDL	mg/l		
11	Chromium Total	BDL	mg/l		
12	Iron	1.80	mg/l		
13	Lead	BDL	mg/l		
14	Nickel	0.02	mg/l		
15	Zinc	0.12	mg/l		
16	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, \* Not covered under NABL scop.

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**Results Approved by:** Anil N Sandansing

**Results Reviewed by:** Anil N Sandansing

**Anil N Sandansing**  
I/c Scientific Officer,  
Regional Laboratory,  
Chiplun,

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CGL- WWTP

Analyst's Report  
Dec 2022

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

### ANALYSIS REPORT

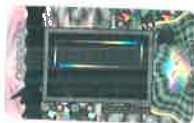
Page 1 of 1  
HS/LAB/NABL/F/7 8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/10760
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	REPORT DATE	12/12/2022
	LAB REFERENCE NO.	HS/LAB/WA/0948
	SAMPLING DATE	06/12/2022
	SAMPLE RECEIPT DATE	07/12/2022
	START DATE OF ANALYSIS	07/12/2022
	END DATE OF ANALYSIS	12/12/2022
	SAMPLING REF. / SOP NO.	HS/NABL/QC/07


DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Effluent Sample	Horizon Services	Plastic Bottle-1000ml	Treated	CGL WWTP at Final Tank

### RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
01	pH	---	7.74	5.5 to 9.0	APHA 23 <sup>rd</sup> Ed 2017, 4500-H*B
02	Suspended Solids	mg/lit	42.00	< 100.0	APHA 23 <sup>rd</sup> Ed 2017 2540-D,
03	Total Dissolved Solids	mg/lit	1082.00	< 2100.0	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
04	Chemical Oxygen Demand	mg/lit	30.00	< 250.0	APHA 23 <sup>rd</sup> Ed. 2017, 5220- C
05	Biochemical Oxygen Demand (27oC for 3 days)	mg/lit	8.60	< 30.00	IS 3025 (P 44) RA 2003
06	Chlorides as Cl <sup>-</sup>	mg/lit	284.40	< 600.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl*B
07	Sulphates as SO <sub>4</sub>	mg/lit	161.00	< 1000.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 SO <sub>4</sub> E
08	Oil and Grease	mg/lit	BDL < 0.01	< 10.0	APHA 23 <sup>rd</sup> Ed 2017, 5520 B
09	Iron as Fe	mg/lit	0.12	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
10	Lead as Pb	mg/lit	NIL	< 0.10	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
11	Cadmium as Cd	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
12	Zinc as Zn	mg/lit	0.24	< 5.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
13	Nickel as Ni	mg/lit	NIL	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
14	Cyanide as Cn	mg/lit	BDL < 0.01	< 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500- Cn E
15	Total Chromium as Cr	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B



For HORIZON SERVICES

  
F MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

#### DISCLAIMER:

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only. • The effect of results relate only to the item tested.



Underground water.

Analysis Report  
Dec/2022

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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### ANALYSIS REPORT

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

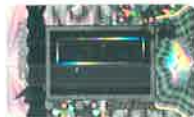
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/10761
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	REPORT DATE	12/12/2022
	LAB REFERENCE NO	HS/LAB/WA/0948
	SAMPLING DATE	06/12/2022
	SAMPLE RECEIPT DATE	07/12/2022
	START DATE OF ANALYSIS	07/12/2022
	END DATE OF ANALYSIS	12/12/2022
	SAMPLING REF./SOP NO	HS/NABL/QC/07

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ground Water	Horizon Services	Plastic bottle – 1000ml Glass Bottle- 250 ml	---	Underground Water

### RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	LIMITS IS 10500:2018	TEST METHOD REFERENCE
01	pH	---	7.55	6.5 – 8.5	APHA 23 <sup>rd</sup> Ed 2017, 4500-H+B
02	Total Dissolved Solids	mg/lit	223.00	< 500.00	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
03	Chlorides as Cl <sup>-</sup>	mg/lit	31.50	< 250.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
04	Total Hardness CaCO <sub>3</sub>	mg/lit	126.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2340 C
05	Calcium as Ca	mg/lit	34.46	< 75.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Ca B
06	Magnesium as Mg	mg/lit	9.72	< 30.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Mg B
07	Iron as Fe	mg/lit	0.17	< 0.30	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
08	Nitrates as NO <sub>2</sub>	mg/lit	0.85	< 45.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 NO <sub>3</sub> B
09	Fluoride as F	mg/lit	0.04	< 1.00	APHA 23 <sup>rd</sup> Ed 2017, 4500-F- D
10	Residual Chlorine - Cl <sub>2</sub>	mg/lit	0.22	> 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
11	Alkalinity as CaCO <sub>3</sub>	mg/lit	55.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2320 B
13	MPN	MPN/100ml	NIL	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 B
14	E.Coli	Org./ml	ABSENT	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 G

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



\*\*\*\*End of Test Report\*\*\*\*

For HORIZON SERVICES

  
F MANISHA NARGOLKAR  
(Lab Incharge)

#### DISCLAIMER:

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MIDC Potable water.  
Analysis Report, Dec'22

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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### ANALYSIS REPORT

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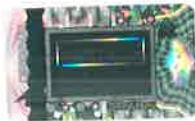
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/10762
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	REPORT DATE	12/12/2022
	LAB REFERENCE NO.	HS/LAB/WA/0948
	SAMPLING DATE	06/12/2022
	SAMPLE RECEIPT DATE	07/12/2022
	START DATE OF ANALYSIS	07/12/2022
	END DATE OF ANALYSIS	12/12/2022
	SAMPLING REF. / SOP NO.	HS/NABL/QC/07

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Drinking Water Sample	Horizon Services	Plastic Bottle-1000ml Glass bottle-250ml	---	MIDC Potable CGL & QCRM Utility

### RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	LIMITS IS 10500: 2018	TEST METHOD REFERENCE
01	pH	---	7.42	6.5 – 8.5	APHA 23 <sup>rd</sup> Ed 2017, 4500-H*B
02	Total Dissolved Solids	mg/lit	64.00	< 500.00	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
03	Iron as Fe	mg/lit	0.03	< 0.30	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
04	Chlorides as Cl <sup>-</sup>	mg/lit	6.75	< 250.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
05	Sulphates as SO <sub>4</sub>	mg/lit	3.12	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 SO <sub>4</sub> E
06	Calcium as Ca	mg/lit	7.21	< 75.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Ca B
07	Magnesium as Mg	mg/lit	3.88	< 30.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Mg B
08	Total Hardness CaCO <sub>3</sub>	mg/lit	34.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2340 C
09	Nitrate as NO <sub>3</sub>	mg/lit	0.18	< 45.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 NO <sub>3</sub> B
10	Fluoride as F	mg/lit	0.04	< 1.00	APHA 23 <sup>rd</sup> Ed 2017, 4500-F <sup>-</sup> D
11	Total Alkalinity CaCO <sub>3</sub>	mg/lit	34.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2320 B
12	Residual Chlorine	mg/lit	0.27	> 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
13	MPN	MPN/100ml	NIL	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 B
14	E.Coli	Org./ml	ABSENT	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 G

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



For HORIZON SERVICES  
*Manisha Nargolkar*  
F MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**ANALYSIS REPORT**

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CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/15195
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	REPORT DATE	06/03/2023
	LAB REFERENCE NO.	HS/LAB/WA/1299
	SAMPLING DATE	27/02/2023
	SAMPLE RECEIPT DATE	27/02/2023
	START DATE OF ANALYSIS	28/02/2023
	END DATE OF ANALYSIS	04/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/QC/07

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Effluent Sample	Horizon Services	Plastic Bottle-1000ml Glass bottle-250ml	Treated	CRM WWTP at Final Tank

**RESULTS OF ANALYSIS**

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
01	pH	---	7.29	5.5 to 9.0	APHA 23 <sup>rd</sup> Ed 2017, 4500-H <sup>+</sup> B
02	Suspended Solids	mg/lit	31.00	< 100.0	APHA 23 <sup>rd</sup> Ed 2017 2540-D,
03	Total Dissolved Solids	mg/lit	912.00	< 2100.0	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
04	Chemical Oxygen Demand	mg/lit	92.60	< 250.0	APHA 23 <sup>rd</sup> Ed. 2017, 5220- C
05	Biochemical Oxygen Demand (27oC for 3 days)	mg/lit	25.60	< 30.00	IS 3025 (P 44) RA 2003
06	Chlorides as Cl <sup>-</sup>	mg/lit	169.85	< 600.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
07	Sulphates as SO <sub>4</sub>	mg/lit	92.10	< 1000.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 SO <sub>4</sub> E
08	Oil and Grease	mg/lit	BDL < 0.01	< 10.0	APHA 23 <sup>rd</sup> Ed 2017, 5520 B
09	Iron as Fe	mg/lit	0.10	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
10	Lead as Pb	mg/lit	NIL	< 0.10	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
11	Cadmium as Cd	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
12	Zinc as Zn	mg/lit	0.20	< 5.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
13	Nickel as Ni	mg/lit	NIL	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
14	Cyanide as Cn	mg/lit	BDL < 0.01	< 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500- Cn E
15	Total Chromium as Cr	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B



For HORIZON SERVICES

*Manisha Nargolkar*  
**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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10th Mar'23

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

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**ANALYSIS REPORT**

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CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/15592
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	REPORT DATE	15/03/2023
	LAB REFERENCE NO.	HS/LAB/WA/1349
	SAMPLING DATE	10/03/2023
	SAMPLE RECEIPT DATE	10/03/2023
	START DATE OF ANALYSIS	11/03/2023
	END DATE OF ANALYSIS	15/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/QC/07

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Effluent Sample	Horizon Services	Plastic Bottle-1000ml	Treated	CGL WWTP at Final Tank

**RESULTS OF ANALYSIS**

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
01	pH	---	7.08	5.5 to 9.0	APHA 23 <sup>rd</sup> Ed 2017, 4500-H <sup>+</sup> B
02	Suspended Solids	mg/lit	37.00	< 100.0	APHA 23 <sup>rd</sup> Ed 2017 2540-D,
03	Total Dissolved Solids	mg/lit	1612.00	< 2100.0	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
04	Chemical Oxygen Demand	mg/lit	19.20	< 250.0	APHA 23 <sup>rd</sup> Ed. 2017, 5220- C
05	Biochemical Oxygen Demand (27oC for 3 days)	mg/lit	5.60	< 30.00	IS 3025 (P 44) RA 2003
06	Chlorides as Cl <sup>-</sup>	mg/lit	314.50	< 600.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
07	Sulphates as SO <sub>4</sub>	mg/lit	196.15	< 1000.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 SO <sub>4</sub> E
08	Oil and Grease	mg/lit	BDL < 0.01	< 10.0	APHA 23 <sup>rd</sup> Ed 2017, 5520 B
09	Iron as Fe	mg/lit	0.14	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
10	Lead as Pb	mg/lit	NIL	< 0.10	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
11	Cadmium as Cd	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
12	Zinc as Zn	mg/lit	0.30	< 5.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
13	Nickel as Ni	mg/lit	NIL	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
14	Cyanide as Cn	mg/lit	BDL < 0.01	< 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500- Cn E
15	Total Chromium as Cr	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B



For **HORIZON SERVICES**

*Manisha Nargolkar*  
**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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**ANALYSIS REPORT**

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CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/15594
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	REPORT DATE	15/03/2023
	LAB REFERENCE NO.	HS/LAB/WA/1349
	SAMPLING DATE	10/03/2023
	SAMPLE RECEIPT DATE	10/03/2023
	START DATE OF ANALYSIS	11/03/2023
	END DATE OF ANALYSIS	15/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/QC/07

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Drinking Water Sample	Horizon Services	Plastic Bottle-1000ml Glass bottle-250ml	---	MIDC Potable CGL & QCRM Utility

**RESULTS OF ANALYSIS**

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	LIMITS IS 10500: 2018	TEST METHOD REFERENCE
01	pH	---	7.19	6.5 – 8.5	APHA 23 <sup>rd</sup> Ed 2017, 4500-H <sup>+</sup> B
02	Total Dissolved Solids	mg/lit	72.00	< 500.00	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
03	Iron as Fe	mg/lit	0.05	< 0.30	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
04	Chlorides as Cl <sup>-</sup>	mg/lit	7.25	< 250.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
05	Sulphates as SO <sub>4</sub>	mg/lit	3.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 SO <sub>4</sub> E
06	Calcium as Ca	mg/lit	4.80	< 75.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Ca B
07	Magnesium as Mg	mg/lit	2.40	< 30.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Mg B
08	Total Hardness CaCO <sub>3</sub>	mg/lit	26.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2340 C
09	Nitrate as NO <sub>3</sub>	mg/lit	0.25	< 45.00	APHA 23 <sup>rd</sup> 2017, 4500 NO <sub>3</sub> B
10	Fluoride as F	mg/lit	0.05	< 1.00	APHA 23 <sup>rd</sup> Ed 2017, 4500-F <sup>-</sup> D
11	Total Alkalinity CaCO <sub>3</sub>	mg/lit	39.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2320 B
12	Residual Chlorine	mg/lit	0.26	> 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
13	MPN	MPN/100ml	NIL	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 B
14	E.Coli	Org./ml	ABSENT	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 G

**REMARK:** As per IS 10500:2018 above water sample is chemically and bacteriologically potable for drinking purpose, for the parameters tested



For **HORIZON SERVICES**  
*Manisha Nargolkar*  
**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

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**ANALYSIS REPORT**

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HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>	<b>REPORT NO</b>	HS/LAB/WA/15593
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	<b>REPORT DATE</b>	15/03/2023
	<b>LAB REFERENCE NO</b>	HS/LAB/WA/1349
	<b>SAMPLING DATE</b>	10/03/2023
	<b>SAMPLE RECIEPT DATE</b>	10/03/2023
	<b>START DATE OF ANALYSIS</b>	11/03/2023
	<b>END DATE OF ANALYSIS</b>	15/03/2023
	<b>SAMPLING REF./SOP NO</b>	HS/NABL/QC/07

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ground Water	Horizon Services	Plastic bottle – 1000ml Glass Bottle- 250 ml	---	Underground Water

**RESULTS OF ANALYSIS**

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	LIMITS IS 10500:2018	TEST METHOD REFERENCE
01	pH	---	7.21	6.5 – 8.5	APHA 23 <sup>rd</sup> Ed 2017, 4500-H <sup>+</sup> B
02	Total Dissolved Solids	mg/lit	304.00	< 500.00	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
03	Chlorides as Cl <sup>-</sup>	mg/lit	42.15	< 250.00	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
04	Total Hardness CaCO <sub>3</sub>	mg/lit	122.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2340 C
05	Calcium as Ca	mg/lit	32.10	< 75.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Ca B
06	Magnesium as Mg	mg/lit	10.20	< 30.00	APHA 23 <sup>rd</sup> Ed 2017, 3500 Mg B
07	Iron as Fe	mg/lit	0.15	< 0.30	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
08	Nitrates as NO <sub>2</sub>	mg/lit	1.20	< 45.00	APHA 23 <sup>rd</sup> 2017, 4500 NO <sub>3</sub> B
09	Fluoride as F	mg/lit	0.09	< 1.00	APHA 23 <sup>rd</sup> Ed 2017, 4500-F <sup>-</sup> D
10	Residual Chlorine - Cl <sub>2</sub>	mg/lit	0.21	> 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
11	Alkalinity as CaCO <sub>3</sub>	mg/lit	72.00	< 200.00	APHA 23 <sup>rd</sup> Ed 2017, 2320 B
13	MPN	MPN/100ml	NIL	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 B
14	E.Coli	Org./ml	ABSENT	ABSENT	APHA 23 <sup>rd</sup> Ed 2017, 9221 G

**REMARK:** As per IS 10500:2018 above water sample is chemically and bacteriologically potable for drinking purpose, for the parameters tested



For HORIZON SERVICES  
*Manisha Nargolkar*  
MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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CRM- WWTP Analysis Report  
13th Apr'23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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### ANALYSIS REPORT

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/0162
M/s POSCO-Maharashtra Steel Pvt. Ltd, Plot No.C-1, Vile Bhagad MIDC Industrial Area, Tal-Mangaon, Dist-Raigad, Maharashtra, 402308.	REPORT DATE	18/04/2023
	LAB REFERENCE NO.	HS/LAB/WA/0070
	SAMPLING DATE	13/04/2023
	SAMPLE RECEIPT DATE	14/04/2023
	START DATE OF ANALYSIS	14/04/2023
	END DATE OF ANALYSIS	18/04/2023
	SAMPLING REF. / SOP NO.	HS/NABL/QC/07

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Effluent Sample	Horizon Services	Plastic Bottle-1000ml	Treated	CRM WWTP

### RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
01	pH	---	8.44	5.5 to 9.0	APHA 23 <sup>rd</sup> Ed 2017, 4500-H <sup>+</sup> B
02	Suspended Solids	mg/lit	22.00	< 100.0	APHA 23 <sup>rd</sup> Ed 2017 2540-D,
03	Total Dissolved Solids	mg/lit	485.00	< 2100.0	APHA 23 <sup>rd</sup> Ed 2017, 2540 C
04	Chemical Oxygen Demand	mg/lit	64.00	< 250.0	APHA 23 <sup>rd</sup> Ed. 2017, 5220- C
05	Biochemical Oxygen Demand (27oC for 3 days)	mg/lit	17.50	< 30.00	IS 3025 (P 44) RA 2003
06	Chlorides as Cl <sup>-</sup>	mg/lit	33.45	< 600.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 Cl <sup>-</sup> B
07	Sulphates as SO <sub>4</sub>	mg/lit	28.50	< 1000.0	APHA 23 <sup>rd</sup> Ed 2017, 4500 SO <sub>4</sub> E
08	Oil and Grease	mg/lit	BDL < 0.01	< 10.0	APHA 23 <sup>rd</sup> Ed 2017, 5520 B
09	Iron as Fe	mg/lit	0.07	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3500 Fe B
10	Lead as Pb	mg/lit	NIL	< 0.10	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
11	Cadmium as Cd	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
12	Zinc as Zn	mg/lit	0.10	< 5.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
13	Nickel as Ni	mg/lit	NIL	< 3.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B
14	Cyanide as Cn	mg/lit	BDL < 0.01	< 0.20	APHA 23 <sup>rd</sup> Ed 2017, 4500- Cn E
15	Total Chromium as Cr	mg/lit	BDL < 0.01	< 2.0	APHA 23 <sup>rd</sup> Ed 2017, 3111 B

For HORIZON SERVICES



F MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

#### DISCLAIMER:

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only. • The test report shall not be produced for any legal identity or adjudicated without permission of lab. • The effect of results relate only to the item tested.

**ANALYSIS REPORT (P-MH Internal Lab.)**

Report of Analysis of Treated Effluent showing performance of the **Effluent Treatment Plant (CRM Plant)** in the month **Dec, 2022~May, 2023**

Monthly Average Analysis Report based on daily Analysis Results of Treated Water Sample.

**By the Laboratory: POSCO Maharashtra Steel Pvt. Ltd.**

S. No	Parameter	MPCB Consent Limit	Dec'22	Jan'23	Feb'23	Mar'23	Apr'23	May'23	Average
1	pH	Between 5.5~ 8.5	8.030	7.952	7.918	7.921	7.977	8.067	<b>7.978</b>
2	Suspended solids	< 100 mg/l	8.419	8.258	8.643	8.258	8.000	8.310	<b>8.315</b>
3	BOD 3 days at 27 <sup>0</sup> C	< 30 mg/l	11.550	10.429	9.914	10.429	12.038	11.300	<b>10.943</b>
4	COD	< 250 mg/l	44.065	42.258	46.500	47.032	42.167	43.966	<b>44.331</b>
5	Oil & Grease	< 10 mg/l	0.252	0.277	0.300	0.329	0.483	0.500	<b>0.357</b>
6	Dissolved Solids-(Inorganic)	< 2100 mg/l	740.452	866.00	1172.00	1224.35	898.400	703.448	<b>934.108</b>
7	Chlorides	< 600 mg/l	321.855	354.59	446.279	436.389	348.462	292.259	<b>366.639</b>
8	Lead as (Pb)	< 0.1 mg/l	0.002	0.009	0.013	0.013	0.013	0.008	<b>0.010</b>
9	Cadmium	< 2 mg/l	0.036	0.005	0.005	0.005	0.008	0.010	<b>0.012</b>
10	Total Chromium (As Cr)	< 2 mg/l	0.138	0.098	0.025	0.017	0.011	0.017	<b>0.051</b>
11	Nickel (As Ni)	< 3 mg/l	0.141	0.086	0.017	0.017	0.009	0.008	<b>0.046</b>
12	Zinc (As Zn)	< 5 mg/l	0.134	0.064	0.225	0.183	0.218	0.284	<b>0.185</b>
13	Iron	< 3 mg/l	0.631	0.462	0.399	0.217	0.320	0.466	<b>0.416</b>
14	Cyanide (As CN)	< 0.2 mg/l	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
15	Sulphates	< 1000 mg/l	148.614	318.40	292.864	268.378	247.436	210.975	<b>247.778</b>
16	Hexavalent Chromium as Cr	< 0.1 mg/l	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>

**Authorized Signatory**

**For POSCO Maharashtra Steel Pvt Ltd.**




**Mr. Atin N. Raut**

AGM-EHS



# 36

### MR POPULAR

Nell Patrick Harris has revealed that straight girls still want to marry him even though they know he is gay



### US court dismisses Devyani's indictment in visa fraud case

New York: Indian 41-year-old Devyani Khobragade, whose arrest and subsequent transfer to the US in January, today won the dismissal of a federal indictment against her in the visa fraud case with a US judge ruling she had filed diplomatic immunity.

# OF

## US court dismisses Devyani's indictment in visa fraud case

The ruling, however, left open the possibility that US prosecutors could bring a new indictment against Khobragade, and they "intend to proceed accordingly," said Jason Margolis, a spokesman for Manhattan US Attorney Preet Bharara.

The prosecution team was ousted after the judge said she had a hunch that the charges were in future stemming from allegations she made a false statement to the US government in connection with visa application of her domestic partner, Sanjay Mehta.

While the indictment was returned on January 9, Khobragade, who was Deputy Consul General in New York at the time of arrest, had the immunity filed the day after she was deported from the US for 180 days on the evening of January 9 and as the prosecutors cannot proceed with the current indictment, the judge said.

### FIGURE THIS

\$56BN

The amount American spent on this part in 2013, according to US Census Bureau. The figure has increased by 1.2% from the previous year.

### VIEW OF THE WORLD

#### Suicide bomber shot dead near Indian embassy in Kandahar

Kabul: A suicide bomber was shot dead near the Indian consulate complex in Kandahar's 11th district police before he could detonate a suicide bomber. Sources here said the bomber was shot dead by Afghan security forces around 1300 hrs after he managed to gain access to the street leading to the Indian consulate. They said he had been in Kandahar for some time. The Indian consulate, which has informed the Indian officials about the attempt to attack the Indian consulate, all Indians are safe. The Indian embassy in Kabul is reportedly located in 2015 and 2009.

#### Ukraine to set up new military force, to incorporate up to 6,000 troops

Kiev: The Ukrainian parliament on Thursday approved the creation of a new military force, the National Guard, to bolster the country's defence capacity amid tensions in the southern autonomous republic of Crimea. The new military force will incorporate up to 60,000 troops, drawing military personnel as well as civilians who served in the army. It also reported, it is widely believed that the national guard will also receive veterans from military operations and participants of the recent anti-government rallies, who have experience of army service. The National Guard is expected to perform combat and security tasks, including peacekeeping and emergency situations to protect the sovereignty and territorial integrity of Ukraine and to defend the interests of the Ukrainian citizens.



Japanese artist Naha Osei poses for photographers during the presentation of her exhibition at the Sagami Museum of Modern Art in Mishima, Shizuoka on Thursday. —AP

#### Bomb threat at Virginia university, buildings evacuated

Washington: Police were investigating a bomb threat at Virginia's George Mason University on Thursday, and buildings were evacuated. The school said authorities were seeking information about who made the threat to George Mason's Prince William campus. The university said on its website. Three buildings were evacuated, and students bus services suspended. It said. The school's students were on spring break this week.

## 'MH370 flew for hrs after losing contact'

### Claims made by US probe are quashed by Malay authorities

Kuala Lumpur: U.S. intelligence has probing the disappearance of a Malaysia Airlines passenger jet believe it may have flown for hours after losing contact with air traffic controllers. The Wall Street Journal reported on Thursday.

#### Indian Navy ships join search operation

The Indian Navy on Thursday stepped up its search operation to search for the missing Malaysian Airlines by dispatching the ships and three maritime patrol aircraft to Andaman sea, according to navy officials. INS Saryu, INS Kirati, INS Kankar and Indian Coast Guard ship Kankaria were sent to search the Andaman sea (10 nautical kilometers (10 miles) east of Campbell Bay). During operation, navy to deploy its Dornier aircraft and Boeing P-8, will also join the search.

While the indictment was returned on January 9, Khobragade, who was Deputy Consul General in New York at the time of arrest, had the immunity filed the day after she was deported from the US for 180 days on the evening of January 9 and as the prosecutors cannot proceed with the current indictment, the judge said.

On the 5th day of the search, planes have stopped at an area on the sea where Chinese coast guard ships had stayed what could be debris, but had no idea on what they were. The Wall Street Journal said U.S. aviation investigators and national security officials believed the plane flew for a number of hours, based on data apparently downloaded and sent to the ground from the Boeing 777's engines as part of a standard accident investigation.

A satellite image of the crash site in a tropical beach area near the South China Sea on Sunday. —AP

A satellite image of the crash site in a tropical beach area near the South China Sea on Sunday. —AP

### IT'S A 'BIG DAY'



Devigns enjoy a food and vegetable buffet during Thailand's national Day of the Ancient Thai Capital Ayutthaya on Thursday. —Reuters

### Pictures of Reeva's corpse accidentally shown in court

Pretoria: Oscar Pistorius' defence and covered his eyes in court when photos of his girlfriend's corpse were shown to his lawyer. Prosecutors, however, said that the contractor had the photos of the corpse for the morning to show her.

The defence team questioned testimony by police investigator, Johannes Vermeulen, that Pistorius' wife's wearing his prosthetics when she was killed through the door with a cricket bat after she was shot. This contradicts the attorney's earlier testimony that she was not in his room, but in his prosthetics and had to go to lock the door in before using the bat.

## NY building collapse death toll climbs to 7

New York: Search crews picked through rubble underlining rubble Tuesday morning for survivors of a gas explosion that caused the collapse of two New York apartment buildings a week ago, killing seven people and injuring 40 others.

Police said search and rescue workers of firefighters, police officers and a team from the National Transportation Safety Board were in the Upper Manhattan area to determine what had caused the explosion on Wednesday shortly after a residential building had collapsed. Firefighters had been called to the scene of the collapse of two buildings, to complete the search of the rubble of the buildings that had fallen 15 apartments. —Reuters

### WEST CENTRAL RAILWAY OPEN TENDER-CIVIL ENGINEERING

TENDER NOTICE NO. DWCE/CKOT/04 OF 2014 Date: 04/03/2014

Tender No.	Description of work	Approx. cost	Current Price
(1) DWCE/CKOT/04/01	Construction of Building for S&T station at Khatola and North-Khatola station in connection with extension of Khatola-Khatola section of P&M division of West Central Railway.	40,55,250/-	97,40,000/-
(2) DWCE/CKOT/04/02	Construction of Building for S&T station at Bhauraha station in connection with extension of Khatola-Khatola section of P&M division of West Central Railway.	38,87,500/-	77,50,000/-
(3) DWCE/CKOT/04/03	Construction of Building for S&T station at Dhanuwa station in connection with extension of Khatola-Khatola section of P&M division of West Central Railway.	44,95,000/-	86,70,000/-
(4) DWCE/CKOT/04/04	Construction of S&T building at other sites, viz. at Bhauraha station, Dhanuwa station, in connection with extension of Khatola-Khatola section of P&M division of West Central Railway.	1,26,48,000/-	2,39,28,000/-

### South East Central Railway CORRIDOR

Following changes you please be notified for the Tender Notice No. DWCE/CKOT/04 of 2014 dated 04/03/2014. The tender notice is being amended to include the following changes:

### WEST CENTRAL RAILWAY

TENDER NOTICE - NO. WAZ3/15 DT- 12/03/2014

Contract for the supply of 1000 nos. of 1200mm x 1200mm x 1200mm concrete blocks for the construction of retaining wall at Khatola-Khatola section of P&M division of West Central Railway.

### RAIL WHEEL FACTORY

Public Notice

Notice regarding the tender for the supply of 1000 nos. of 1200mm x 1200mm x 1200mm concrete blocks for the construction of retaining wall at Khatola-Khatola section of P&M division of West Central Railway.

### NORTH CENTRAL RAILWAY, ALHABAD

Public Notice

No.	Tender No.	Description	Qty.	Cost of tender	Current Price	Remarks
1	01/2014	Supply of 1000 nos. of 1200mm x 1200mm x 1200mm concrete blocks for the construction of retaining wall at Khatola-Khatola section of P&M division of West Central Railway.	1000	1000000	1000000	

### ESI PGIMS & MODEL HOSPITAL Cum O.D.

Public Notice

Notice regarding the tender for the supply of 1000 nos. of 1200mm x 1200mm x 1200mm concrete blocks for the construction of retaining wall at Khatola-Khatola section of P&M division of West Central Railway.

### PUBLIC NOTICE

Public Notice

Notice regarding the tender for the supply of 1000 nos. of 1200mm x 1200mm x 1200mm concrete blocks for the construction of retaining wall at Khatola-Khatola section of P&M division of West Central Railway.

### EASTERN RAILWAY

Public Notice

Notice regarding the tender for the supply of 1000 nos. of 1200mm x 1200mm x 1200mm concrete blocks for the construction of retaining wall at Khatola-Khatola section of P&M division of West Central Railway.





# CRM- plant - (News in Marathi Newspaper)

## विविध

मुंबई, सोमवार, ४ जुलै २०११

### विद्यार्थ्यांनी केले वियाचे रोपण

सायगड जिल्हा परिषदेच्या मुरुड तालुक्यातील तळेखारच्या प्राथमिक शाळेतील विद्यार्थ्यांनी नजीक अ टोकडीवर एक हजार वियाचे रोपण केले. शाळा व्यवस्थापन समितीचे अध्यक्ष राजन घोंडसेकर व अन्य वेळी उपस्थित होते. शाळेच्या मुख्याध्यापिका जयश्री पाटील यांनी उपस्थितांचे स्वागत केले.

# रिक्षा भाडेवाढीला पर्याय सी

सीएनजीवर रिक्षा सुरू करण्याची कल्याण-डोंबिवलीतील रिक्षाचालकांची माग

कल्याण, ता. ३ : मुंबईपेक्षा रिक्षा सहाय्यता अडसूळ आदी या वेळी सीएनजी पंप सुरू करण्यात येणे केले. कल्याण परिसरेतील सनई मंगल उपस्थित होते. पेंगवर म्हणाले, अशा मागणीही केले. कल्याण-डोंबिवलीतील सीएनजीवर रिक्षा चालविल्यास ३० टक्के दरवाढ लागू आहे. याचा अर्थ रिक्षाचालकांना आर्थिक नुकसान होईल. त्यामुळे रिक्षाचालकांनी याबाबतची मागणी केली आहे. मात्र, अशाच बाबतलाठी अटक झालेली नाही.



कल्याण-डोंबिवलीतील रिक्षाचालकांनी मुंबईपेक्षा कल्याण परिसरेतील रिक्षा सहाय्यता अडसूळ आदी या वेळी सीएनजी पंप सुरू करण्यात येणे केले. कल्याण परिसरेतील सनई मंगल उपस्थित होते. पेंगवर म्हणाले, अशा मागणीही केले. कल्याण-डोंबिवलीतील सीएनजीवर रिक्षा चालविल्यास ३० टक्के दरवाढ लागू आहे. याचा अर्थ रिक्षाचालकांना आर्थिक नुकसान होईल. त्यामुळे रिक्षाचालकांनी याबाबतची मागणी केली आहे. मात्र, अशाच बाबतलाठी अटक झालेली नाही.

**जाहीर नोटीस**  
ज्याअर्थी सदर नोटीसीमध्ये नमूद संबंधित जमीनमालक/हितसंबंधितांस याद्वारे सूचित करण्यात येते की, खा- लील परिशिष्टामधील मिळकतीवर वसलेल्या डॉल्फीन साइकारी गृहनिर्माण संस्था (नियो.), एडवर्ड जे हॅन्नीकरा कमारुंड, ऑफ टॅकरोड, ऑलिव मालाड (प.) मुंबई ६४. यांनी मीजे-वळणई, तासुका-बोरिवली या वसाहतीखा- लील क्षेत्र महाराष्ट्र झोपडपट्टी (सुधारणा, निर्मूलन व पुनर्विकास) अधिनियम १९७१ नचौल कलम १४(१) मधील तरतुदींनुसार भूराजपट्टन करणेबाबतचा प्रस्ताव या वसाहतीमधील रहिवाश्यांच्या वतीने खाटील सती करणाऱ्या

**जाहीर सूचना**  
समान लोकांना या सूचनेद्वारे कळविण्यात येते की, पॉस्को महाराष्ट्र स्टील प्रा. लि., प्लॉट नं. सी-१, विले पार्ले एन आय डी री, तासुका माणगाव, जिल्हा रायगड या क्षेत्रातील त्यांच्या वरील पर्यावरणीय नियोजित प्रकल्पासाठी पर्यावरण विभागाची अंतिम पर्यावरणी SEIAA (State Level Environment Impact Assessment Authority), पर्यावरण विभाग, महाराष्ट्र शासन यांच्याकडून SEAC-2010/CR-638/TC-2 Dated 23/05/2011 चा पर्यावरण विचारलेली आहे.

आगाऊ पर्यावरण विषयक परवानगीची प्रत जनतेला पाहण्यासाठी एन ई आय ए ए (पर्यावरण विभाग, महाराष्ट्र शासन) च्या वेबसाइटवर तसेच महाराष्ट्र प्रदूषण नियंत्रण मंडळाच्या <http://envi.maharashtra.gov.in> या वेबसाइटवरही उपलब्ध आहे.

**Karkhana Ltd.**  
Tal-Mangalwedha.  
**TENDER NOTICE FOR EXPORT**  
Qualified tenders are invited for Export the recognized required Exports by:

1	Production year	2010-11
2	Sugar Grade	S-30
3	Tender quantity	1000.1 MT
4	Inspection	To be done
5	Packing	50 Kg. P/B
6	Delivery	Ex-Karkha
7	Transport subsidy	If applicable

The Exporter must submit pro-DGFT and APEDA. Please offer Please submit tenders within 7 days. Also we are interested to sale on party export on premium basis. Other terms & conditions will be negotiation karkhana reserve all rights all tenders without assigning any re- A. D. Khandat, Secy, Mangalwedha

**महाराष्ट्र कामगार कल्याण मंडळ**

(News in English Newspaper)

**TENDER NOTICE FOR CIVIL ENGINEERING WORKS**

Sealed tenders on prescribed forms are invited for execution of under mentioned works in District Division of South East Central Railway from the experienced contractors for execution of following works:

**SOUTH EAST CENTRAL RAILWAY**

Date of Revision: 08.08.2011

SC No. 1

THE CIVIL ENGINEERING WORKS

TEND

INFORMATION

25.07.2011, 11:00 to 3:00 P.M. (15:00 Hours)

Note: Sale of Tender forms: w.e.f. 05.07.2011 to www.tender.gov.in.

Please visit website (www.fciweb.in) and Gujarat on 'As is where is basis' for the details (Damaged) Stocks lying at various depots in with FCI for sale of approx. 182 Mts. non-issuable purchase of non-issuable/Damaged Food Grains (for

**TENDER FOR VARIOUS ENGINEERING WORKS**

Sealed tenders on prescribed forms are invited for execution of under mentioned works in District Division of South East Central Railway from the experienced contractors for execution of following works:

**TENDER NOTICE No. WAT/11/2011-12: DL of Opening: 08.08.2011**

Name of Work: Provision of protection works & improvement in cross and

Site: Construction of various civil works in between Rajm - Dattoli - Chhatrapati

Contract Value: ₹ 283.8271

Cost of Tender Documents: ₹ 5,000/-

Execution Period: 11 Months

TENDER NOTICE No. WAT/11/2011-12: Name of Work:

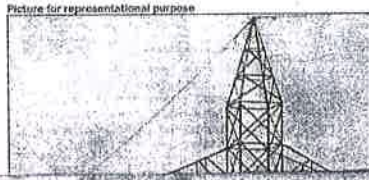
MBAI

# 'Stay 27 pvt power projects'

State Congress chief worries 57 sanctioned projects will leave little water for farmers in Vidarbha, writes to Sonia

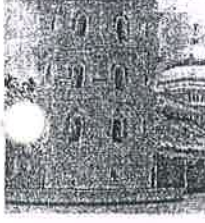
**Shubhangi Khapre**

After giving sanctions to 57 private power projects in Vidarbha region, the Maharashtra Pradesh Congress Committee (MPCC) has now dashed off a letter to Congress president Sonia Gandhi requesting her to stay 27 of the



## WHY ALLOW 57 POWER PROJECTS IN VIDARBHA?

The private players, who have signed the memoranda of understanding with the state government for power plant projects in Vidarbha, have been assured of unlimited water supply or else how does it justify when they have to depend on coal from other states.



When a guest complained of gender discrimination as her daughter was not allowed to enter the temple as she was wearing shorts. The rejoinder from the temple trust said "On your complaint of gender discrimination, we would like to clarify, that the dress code was implemented on the state and by women tourists from foreign countries."

Moreover, the Congress and Nationalist "UP" temple. The women tourists came scantily dressed; they will not leave their footwear outside. They buy garlands and wear them before coming inside, they offer the same garland to the deity. All these are sacrilegious, committed innocently" said Suvarna Nervekar, treasurer, Mahakasa Narayani temple trust.

It is not just Hindu temples which have found tourist behaviour objectionable but also the Christian prayer halls. The Bom Jesus cathedral at Velha, old Goa, which is a world heritage site, has also notified that the tourists should behave in such a way that will not violate religious sentiments of the people visiting the C or denigrate the value of religious structure in any way.

Two temples, Mangueshi (Shiva temple) and Mahalsa Narayani, have now introduced a dress code and have also banned the entry of foreigners. "We have nothing against foreigners or tourists. In fact, even after we introduced the dress code, our main visitors were the non-religious tourists in the off-season. Being a religious place, we have to maintain certain decorum inside the temple. We cannot allow scantily dressed women and men, they have other



## COMMUNITY REPORT

Manoj Nair

# Woman Haj officer now the pride of community

Last week, this newspaper reported about the misgivings in a section of the Muslim community. Naqvi, a member of the National Advisory Council, spoke about issues affecting the Muslim community. The couple, but her relatives told Vikram that Pandey had sent her abusive emails, which they would use against him if he troubled her again. They also told him that they would show the emails to the police, cessed the victim's emails on February 9, and had deleted the emails which he had sent to her," the officer added. Pandey was remanded in judicial custody and was later granted bail of Rs6,000.

## PUBLIC NOTICE

This is to inform all people through this notice that POSCO MAHARASHTRA STEEL PVT. LTD., Plot no. C-1, Vile Parbhag MIDC, Tal. Mangaon, Dist. Raigad has been accorded prior Environmental Clearance for their upcoming project at above mentioned site from SEIAA (State Level Environment Impact Assessment Authority), Department of Environment, Govt. of Maharashtra vide letter SEAC-2010/CR-639/TC-2 dated 23-06-2011.

Copy of Prior Environmental Clearance is made available for public on the website of SEIAA, Dept. of Environment, Govt. of Maharashtra & also with MPCB (Maharashtra Pollution Control Board), <http://envvis.maharashtra.gov.in>

CRM

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>	<b>REPORT NO</b>	HS/LAB/AA/13936
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT DATE</b>	06/02/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/636
	<b>SAMPLING DATE</b>	30/01/2023
	<b>SAMPLE RECEIPT DATE</b>	01/02/2023
	<b>START DATE OF ANALYSIS</b>	01/02/2023
	<b>END DATE OF ANALYSIS</b>	04/02/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL- Boiler Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	30/01/2023		
02	TEST LOCATION		CGL- Boiler Stack		
03	TIME OF SAMPLING	Hrs	17:00		
04	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part2):1985
		kg/day	Nil	--	--
05	NO <sub>x</sub>	ppm	4.0	<100	IS 11255 (Part 7):2005

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

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• The test report shall not be used for any legal identities or conducted without permission of lab. • The effect of results relate only to the item tested.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>	<b>REPORT NO</b>	HS/LAB/AA/13932
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	<b>REPORT DATE</b>	06/02/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/636
	<b>SAMPLING DATE</b>	30/01/2023
	<b>SAMPLE RECEIPT DATE</b>	01/02/2023
	<b>START DATE OF ANALYSIS</b>	01/02/2023
	<b>END DATE OF ANALYSIS</b>	04/02/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL- Furnace Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	30/01/2023		
02	TEST LOCATION		CGL- Furnace Stack		
03	TIME OF SAMPLING	Hrs	14:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	42		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	488		
08	DIFFERENTIAL PRESSURE	mm WG	2.5		
09	VELOCITY	M/Sec	7.14		
10	DIAMETER OF STACK	M	1.7		
11	STACK AREA	M <sup>2</sup>	2.2687		
12	GAS VOLUME	NM <sup>3</sup> /Hr	35623.75		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	6.34	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part2):1985
		kg/day	Nil	--	--
15	NOx	ppm	1.0	<100	IS 11255 (Part 7):2005

**Equipment Used: -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)**

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)



\*\*\*\*End of Test Report\*\*\*\*

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**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>	<b>REPORT NO</b>	HS/LAB/AA/13933
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT DATE</b>	06/02/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/636
	<b>SAMPLING DATE</b>	30/01/2023
	<b>SAMPLE RECEIPT DATE</b>	01/02/2023
	<b>START DATE OF ANALYSIS</b>	01/02/2023
	<b>END DATE OF ANALYSIS</b>	04/02/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL No. 1 Cleaning Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	30/01/2023		
02	TEST LOCATION		CGL No. 1 Cleaning Stack		
03	TIME OF SAMPLING	Hrs	16:00		
04	ALKALI MIST	mg/NM <sup>3</sup>	1.05	<35	Lab Based SOP

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)



\*\*\*\*End of Test Report\*\*\*\*

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Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>	<b>REPORT NO</b>	HS/LAB/AA/13935
<b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT DATE</b>	06/02/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/636
	<b>SAMPLING DATE</b>	30/01/2023
	<b>SAMPLE RECEIPT DATE</b>	01/02/2023
	<b>START DATE OF ANALYSIS</b>	01/02/2023
	<b>END DATE OF ANALYSIS</b>	04/02/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL Post Treatment Stack

**RESULTS**

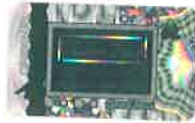
SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	30/01/2023		
02	TEST LOCATION		CGL Post Treatment Stack		
03	TIME OF SAMPLING	Hrs	15:00		
04	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.63	<35	USEPA METHOD 08

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)



\*\*\*\*End of Test Report\*\*\*\*

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Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>	<b>REPORT NO</b>	HS/LAB/AA/13934
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT DATE</b>	06/02/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/636
	<b>SAMPLING DATE</b>	30/01/2023
	<b>SAMPLE RECEIPT DATE</b>	01/02/2023
	<b>START DATE OF ANALYSIS</b>	01/02/2023
	<b>END DATE OF ANALYSIS</b>	04/02/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL - Pot Roll Cleaning Shop Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	30/01/2023		
02	TEST LOCATION		CGL - Pot Roll Cleaning Shop Stack		
03	TIME OF SAMPLING	Hrs	18:00		
04	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.58	<35	USEPA METHOD 08

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)



\*\*\*\*End of Test Report\*\*\*\*

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18th Jan 23

Phone : 02355-261970 Fax : - Email : mpcbchiplunlab@mpcb.gov.in Website : http://mpcb.gov.in	 "Your Service is our Duty"	<b>Regional Laboratory</b> Regional Laboratory, Chiplun, Maharashtra Pollution Control Board, 105,106 Parkar Complex, 1st Floor, Behind Nagar Parishad, Chiplun, Dist. Ratnagiri. 415 605
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Report Outward No.: MPCB/RL-Chiplun/Source Emission/22-23/03/7

Date: 08/03/2023 06:58 PM

**Analysis Report-Air (Source Emission)**

**Client/Industry/location Name & Address**

POSCO Maharashtra Steel Pvt. Ltd.

R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing

**Sample Details**

<b>Field Sample ID :</b>	BR-0039449
<b>Laboratory Sample Code :</b>	MPCB/RL-Chiplun/STK/22-23/267
<b>Sample Details (Water/Air/HW) :</b>	Air
<b>Sample Volume Received :</b>	
<b>Sample Collected By :</b>	FO-Mahad (Shri J. J. Kumbhar) (SRO-Mahad)
<b>Seal No. :</b>	231
<b>Type of Industry / Location details :</b>	Red
<b>Sample Collected On :</b>	Jan 18 2023 03:00:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	SO2	11	mg/m <sup>3</sup>	
2	Total Particulate Matter	20	mg/Nm <sup>3</sup>	

**Report Type:** final

**Report generated on:** 08/03/2023 06:58 PM

**Complied & Approved by:** Anil N Sandansing

**Reviewed on Date:** 08/03/2023 06:58 PM

**Reviewed by:** Anil N Sandansing

**Anil N Sandansing**  
 I/c Scientific Officer,  
 Regional Laboratory,  
 Chiplun,



CRM- Boiler Stack

Feb'23

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/14577
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	20/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/666
	SAMPLING DATE	13/02/2023
	SAMPLE RECEIPT DATE	15/02/2023
	START DATE OF ANALYSIS	15/02/2023
	END DATE OF ANALYSIS	18/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 01- Boiler Stack (24 MT)

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/02/2023		
02	TEST LOCATION		CRM 01- Boiler Stack (24 MT)		
03	TIME OF SAMPLING	Hrs	14:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	30		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	495		
08	DIFFERENTIAL PRESSURE	mm WG	6.2		
09	VELOCITY	M/Sec	11.33		
10	DIAMETER OF STACK	M	1.65		
11	STACK AREA	M <sup>2</sup>	2.1371		
12	GAS VOLUME	NM <sup>3</sup> /Hr	52473.84		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	9.72	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part2):1985
		kg/day	Nil	--	--
15	NO <sub>x</sub>	ppm	2.0	<100	Flue Gas Analyser-based on manufacturer's Manual

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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CRM - Pickling Exhaust Stack,  
Feb 23

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/14578
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	20/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/666
	SAMPLING DATE	13/02/2023
	SAMPLE RECEIPT DATE	15/02/2023
	START DATE OF ANALYSIS	15/02/2023
	END DATE OF ANALYSIS	18/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 02- Pickling Exhaust Stack

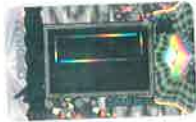
**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/02/2023		
02	TEST LOCATION		CRM 02- Pickling Exhaust Stack		
03	TIME OF SAMPLING	Hrs	15:00		
04	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.45	<35	USEPA METHOD 08

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For **HORIZON SERVICES**



*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

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CRM - TCM - STACK

Feb' 23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
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**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/14579
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	20/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/666
	SAMPLING DATE	13/02/2023
	SAMPLE RECEIPT DATE	15/02/2023
	START DATE OF ANALYSIS	15/02/2023
	END DATE OF ANALYSIS	18/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 03- TCM Stack (CRM Plant)

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/02/2023		
02	TEST LOCATION		CRM 03 - TCM Stack (CRM Plant)		
03	TIME OF SAMPLING	Hrs	16:10		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	31.5		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	310		
08	DIFFERENTIAL PRESSURE	mm WG	6.3		
09	VELOCITY	M/Sec	9.04		
10	DIAMETER OF STACK	M	2.9		
11	STACK AREA	M <sup>2</sup>	6.6019		
12	GAS VOLUME	NM <sup>3</sup> /Hr	206474.85		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	8.76	<150	IS 11255 (Part 1):1985

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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CAL - furnace stack

Feb 23

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

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**TEST CERTIFICATE**

Page 1 of 1

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/14580
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	20/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/666
	SAMPLING DATE	14/02/2023
	SAMPLE RECEIPT DATE	15/02/2023
	START DATE OF ANALYSIS	15/02/2023
	END DATE OF ANALYSIS	18/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 04- CAL Furnace Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	14/02/2023		
02	TEST LOCATION		CRM 04- CAL Furnace Stack		
03	TIME OF SAMPLING	Hrs	11:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	43		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	485		
08	DIFFERENTIAL PRESSURE	mm WG	6.3		
09	VELOCITY	M/Sec	11.30		
10	DIAMETER OF STACK	M	2.1		
11	STACK AREA	M <sup>2</sup>	3.4619		
12	GAS VOLUME	NM <sup>3</sup> /Hr	86560.49		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	6.53	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part 2):1985
		kg/day	Nil	--	--
15	NO <sub>x</sub>	ppm	2.0	<100	IS 11255 (Part 7):2005

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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CAL- cleaning section  
scrubber stack.

Feb 23.

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

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**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/14581
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	20/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/666
	SAMPLING DATE	14/02/2023
	SAMPLE RECEIPT DATE	15/02/2023
	START DATE OF ANALYSIS	15/02/2023
	END DATE OF ANALYSIS	18/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 05 - CAL Cleaning Section Scrubber Stack

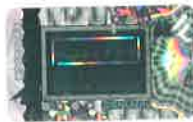
**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	14/02/2023		
02	TEST LOCATION		CRM 05 - CAL Cleaning Section Scrubber Stack		
03	TIME OF SAMPLING	Hrs	11:45		
13	ALKALI MIST	mg/NM <sup>3</sup>	0.62	<35	Lab Based SOP

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

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HS/LAB/NABL/F/7.8.2.1

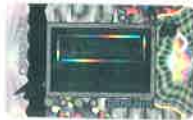
<b>CLIENT'S NAME &amp; ADDRESS</b>  M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/14582
	<b>REPORT DATE</b>	20/02/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/666
	<b>SAMPLING DATE</b>	13/02/2023
	<b>SAMPLE RECEIPT DATE</b>	15/02/2023
	<b>START DATE OF ANALYSIS</b>	15/02/2023
	<b>END DATE OF ANALYSIS</b>	18/02/2023
<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15	

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 08- Acid Regeneration Plant Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/02/2023		
02	TEST LOCATION		CRM 08- Acid Regeneration Plant Stack		
03	TIME OF SAMPLING	Hrs	15:30		
13	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.62	<35	USEPA METHOD 08

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*



Scale Breaker - I

Feb/23

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/14583
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	20/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/666
	SAMPLING DATE	13/02/2023
	SAMPLE RECEIPT DATE	15/02/2023
	START DATE OF ANALYSIS	15/02/2023
	END DATE OF ANALYSIS	18/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 09- Scale Breaker I (Pickling Line Entry) Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/02/2023		
02	TEST LOCATION		CRM 09- Scale Breaker I (Pickling Line Entry) Stack		
03	TIME OF SAMPLING	Hrs	16:45		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	13.0		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	306		
08	DIFFERENTIAL PRESSURE	mm WG	6.2		
09	VELOCITY	M/Sec	8.91		
10	DIAMETER OF STACK	M	1.3		
11	STACK AREA	M <sup>2</sup>	1.3267		
12	GAS VOLUME	NM <sup>3</sup> /Hr	41428.92		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	7.53	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part2):1985
15		kg/day	Nil	--	--
15	NO <sub>x</sub>	ppm	2.0	100	Flue Gas Analyser-based on manufacturer's Manual

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*  
MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

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Scale Breaker II  
Stack - Feb 23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

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Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/14584
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	20/02/2023
	LAB REFERENCE NO.	HS/LAB/AA/666
	SAMPLING DATE	13/02/2023
	SAMPLE RECEIPT DATE	15/02/2023
	START DATE OF ANALYSIS	15/02/2023
	END DATE OF ANALYSIS	18/02/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 10- Scale Breaker II (Pickling Line Entry) Stack

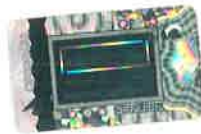
**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/02/2023		
02	TEST LOCATION		CRM 10- Scale Breaker II (Pickling Line Entry) Stack		
03	TIME OF SAMPLING	Hrs	17:15		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	13.0		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	313		
08	DIFFERENTIAL PRESSURE	mm WG	6.2		
09	VELOCITY	M/Sec	9.01		
10	DIAMETER OF STACK	M	1.3		
11	STACK AREA	M <sup>2</sup>	1.3267		
12	GAS VOLUME	NM <sup>3</sup> /Hr	40963.03		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	6.41	<150	IS 11255 (Part 1):1985

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

DISCLAIMER:

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CRM- Coating Shop (Scrubber)  
Air (Source Emission) - Mar/23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16356
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	21/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 11- Coating Shop Scrubber Stack (Roll Coating Shop)

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	21/03/2023		
02	TEST LOCATION		CRM 11- Coating Shop Scrubber Stack (Roll Coating Shop)		
03	TIME OF SAMPLING	Hrs	11:00		
04	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.23	<30	USEPA METHOD 08

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*  
MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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CRM - Shot Blasting M/c stack  
Air (source emission) - Mar 23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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HS/LAB/NABL/F/7.8.2.1

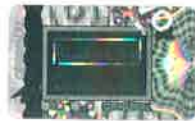
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16357
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	21/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 12- Shot Blasting Machine Stack (Roll Coating Shop)

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	21/03/2023		
02	TEST LOCATION		CRM 12- Shot Blasting Machine Stack (Roll Coating Shop)		
03	TIME OF SAMPLING	Hrs	11:30		
04	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.19	<30	USEPA METHOD 08

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

DISCLAIMER :

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ACL - Air (Source Emission).

20th Mar 23.

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16350
<b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	20/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	ACL 01- Annealing Furnace (Preheating Section)

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	20/03/2023		
02	TEST LOCATION		ACL 01- Annealing Furnace (Preheating Section)		
03	TIME OF SAMPLING	Hrs	15:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	20.29		
06	SHAPE OF STACK		Rectangular		
07	FLUE GAS TEMPERATURE	Deg K	525		
08	DIFFERENTIAL PRESSURE	mm WG	3.0		
09	VELOCITY	M/Sec	8.12		
10	DIAMETER OF STACK	M	1.0×0.65		
11	STACK AREA	M <sup>2</sup>	0.65		
12	GAS VOLUME	NM <sup>3</sup> /Hr	10779.69		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	12.30	--	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	5.89	--	IS 11255 (Part2):1985
		kg/day	1.52	--	--
15	NO <sub>x</sub>	ppm	3.2	<150	IS 11255 (Part 7):2005

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

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Air (Source Emission)  
20th Mar'23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
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TEST CERTIFICATE

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16351
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	20/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	ACL 02- Annealing Furnace (Radiant Tube Heating Section)

RESULTS

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	20/03/2023		
02	TEST LOCATION		ACL 02- Annealing Furnace (Radiant Tube Heating Section)		
03	TIME OF SAMPLING	Hrs	15:30		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	20.0		
06	SHAPE OF STACK		Rectangular		
07	FLUE GAS TEMPERATURE	Deg K	498		
08	DIFFERENTIAL PRESSURE	mm WG	4.3		
09	VELOCITY	M/Sec	9.46		
10	DIAMETER OF STACK	M	1.0×0.65		
11	STACK AREA	M <sup>2</sup>	0.65		
12	GAS VOLUME	NM <sup>3</sup> /Hr	13250.89		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	8.43	--	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	NIL	--	IS 11255 (Part2):1985
		kg/day	NIL	--	--
15	NOx	ppm	2	<150	IS 11255 (Part 7):2005

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

DISCLAIMER:

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Acc - Air (Source Emission)

20th Mar '23

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

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HS/LAB/NABL/F/7.8.2.1

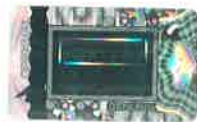
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16352
<b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	20/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	ACL 04- Drying Furnace Drying Section Exhaust Gas Fan

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	20/03/2023		
02	TEST LOCATION		ACL 04- Drying Furnace Drying Section Exhaust Gas Fan		
03	TIME OF SAMPLING	Hrs	16:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	20.65		
06	SHAPE OF STACK		Rectangular		
07	FLUE GAS TEMPERATURE	Deg K	575		
08	DIFFERENTIAL PRESSURE	mm WG	2.3		
09	VELOCITY	M/Sec	7.44		
10	DIAMETER OF STACK	M	1.0×0.60		
11	STACK AREA	M <sup>2</sup>	0.60		
12	GAS VOLUME	NM <sup>3</sup> /Hr	8325.17		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	10.34	--	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	NIL	--	IS 11255 (Part2):1985
		kg/day	NIL	--	--
15	NO <sub>x</sub>	ppm	2.0	<150	IS 11255 (Part 7):2005

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER:**

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Acc - Air (Source Emission)

20th Mar'23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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TEST CERTIFICATE

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16353
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	20/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

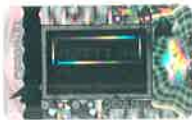
DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	ACL 05- Curing Furnace Drying Section Exhaust Gas Fan

RESULTS

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	20/03/2023		
02	TEST LOCATION		ACL 05- Curing Furnace Drying Section Exhaust Gas Fan		
03	TIME OF SAMPLING	Hrs	16:30		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	20.29		
06	SHAPE OF STACK		Rectangular		
07	FLUE GAS TEMPERATURE	Deg K	498		
08	DIFFERENTIAL PRESSURE	mm WG	4.2		
09	VELOCITY	M/Sec	9.35		
10	DIAMETER OF STACK	M	0.74×0.60		
11	STACK AREA	M <sup>2</sup>	0.444		
12	GAS VOLUME	NM <sup>3</sup> /Hr	8945.51		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	5.34	--	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	NIL	--	IS 11255 (Part2):1985
		kg/day	NIL	--	--
15	NOx	ppm	5.9	<150	IS 11255 (Part 7):2005

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*  
MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

DISCLAIMER:

• Sample will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only. • The effect of results relate only to the item tested.



Ael - Cleaning Section (scrubber)  
Air (Source Emission) - Mar'23

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

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HS/LAB/NABL/F/7.8.2.1

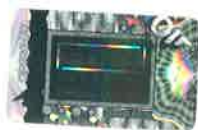
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16354
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	20/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	ACL-S08- Cleaning Section Fume Exhaust Fan

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	20/03/2023		
02	TEST LOCATION		ACL-S08- Cleaning Section Fume Exhaust Fan		
03	TIME OF SAMPLING	Hrs	17:00		
04	ALKALI MIST	mg/NM <sup>3</sup>	1.2	<30	Lab Based SOP

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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ACL - Coater Fume Exhaust Fan  
Air (Source Emission) Mar'23

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/16355
<b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	28/03/2023
	LAB REFERENCE NO.	HS/LAB/AA/755
	SAMPLING DATE	20/03/2023
	SAMPLE RECEIPT DATE	23/03/2023
	START DATE OF ANALYSIS	23/03/2023
	END DATE OF ANALYSIS	27/03/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	---	ACL 09- Coater Fume Exhaust Fan

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	20/03/2023		
02	TEST LOCATION		ACL 09- Coater Fume Exhaust Fan		
03	TIME OF SAMPLING	Hrs	17:30		
13	ALKALI MIST	mg/NM <sup>3</sup>	0.63	N.S.	Lab Based SOP

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
**Date of Calibration:** -07/08/2022 **Next Calibration due:** - 06/08/2023

**REMARKS/OBSERVATIONS:**  
N.S. – Not Specified



For **HORIZON SERVICES**

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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Air (source Emission) Stack  
13th Apr/23. (CGL-plant)

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

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HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/00940
	<b>REPORT DATE</b>	19/04/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/030
	<b>SAMPLING DATE</b>	13/04/2023
	<b>SAMPLE RECEIPT DATE</b>	14/04/2023
	<b>START DATE OF ANALYSIS</b>	14/04/2023
	<b>END DATE OF ANALYSIS</b>	18/04/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL- Furnace Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/04/2023		
02	TEST LOCATION		CGL- Furnace Stack		
03	TIME OF SAMPLING	Hrs	10:39		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	42		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	482		
08	DIFFERENTIAL PRESSURE	mm WG	2.2		
09	VELOCITY	M/Sec	6.66		
10	DIAMETER OF STACK	M	1.7		
11	STACK AREA	M <sup>2</sup>	2.2687		
12	GAS VOLUME	NM <sup>3</sup> /Hr	33625.40		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	8.46	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part2):1985
		kg/day	Nil	--	--
15	NOx	ppm	1.0	<100	IS 11255 (Part 7):2005

**Equipment Used: -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)**

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For **HORIZON SERVICES**

*Manisha Nargolkar*  
F **MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER :**

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Air (Source Emission) Cleaning Stack  
13th April 2023 (CGL-plant)

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)  
Lab NABL Accredited - Testing - Chemical Field (TC - 7064)

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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HS/LAB/NABL/F/7.8.2.1

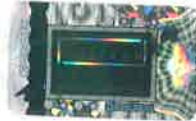
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/00941
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	19/04/2023
	LAB REFERENCE NO.	HS/LAB/AA/030
	SAMPLING DATE	13/04/2023
	SAMPLE RECEIPT DATE	14/04/2023
	START DATE OF ANALYSIS	14/04/2023
	END DATE OF ANALYSIS	18/04/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL No. 1 Cleaning Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/04/2023		
02	TEST LOCATION		CGL No. 1 Cleaning Stack		
03	TIME OF SAMPLING	Hrs	11:25		
04	ALKALI MIST	mg/NM <sup>3</sup>	1.38	<35	Lab Based SOP

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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Air (Source Emission) - Stack  
13th April 23 (CGL-plant)

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/00942
<b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	19/04/2023
	LAB REFERENCE NO.	HS/LAB/AA/030
	SAMPLING DATE	13/04/2023
	SAMPLE RECEIPT DATE	14/04/2023
	START DATE OF ANALYSIS	14/04/2023
	END DATE OF ANALYSIS	18/04/2023
SAMPLING REF. / SOP NO.	HS/NABL/Air/15	

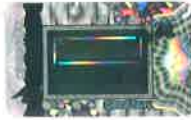
DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL Post Treatment Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	13/04/2023		
02	TEST LOCATION		CGL Post Treatment Stack		
03	TIME OF SAMPLING	Hrs	12:30		
04	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.75	<35	USEPA METHOD 08

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*  
F **MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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Air (Source Emission) - 27<sup>th</sup> April 23  
CGL - D.G. Set 2000 KVA

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202 • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/01634
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile - Bhagad MIDC Industrial Area, Tal - Mangaon, Dist - Raigad, Maharashtra 402308	REPORT DATE	04/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/068
	SAMPLING DATE	27/04/2023
	SAMPLE RECEIPT DATE	28/04/2023
	START DATE OF ANALYSIS	28/04/2023
	END DATE OF ANALYSIS	03/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

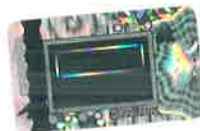
DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CGL- D.G. Set 2000 KVA

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	27/04/2023		
02	TEST LOCATION		CGL- D.G. Set 2000 KVA		
03	TIME OF SAMPLING	Hrs	12:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	30		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	411		
08	DIFFERENTIAL PRESSURE	mm WG	3.2		
09	VELOCITY	M/Sec	7.42		
10	DIAMETER OF STACK	M	0.7		
11	STACK AREA	M <sup>2</sup>	0.3847		
12	GAS VOLUME	NM <sup>3</sup> /Hr	7446.15		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	49.45	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	42.10	--	IS 11255 (Part2):1985
		kg/day	7.52	<144	--
15	NO <sub>x</sub>	ppm	28	<100	Flue Gas Analyser-based on manufacturer's Manual
16	CO	ppm	30	--	
17	NMHC	ppm	22	--	

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



\*\*\*\*End of Test Report\*\*\*\*

For HORIZON SERVICES

F MANISHA NARGOLKAR  
(Lab Incharge)

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CRM-D.G. Set 2000 KVA

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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HS/LAB/NABL/F/7.8.2.1

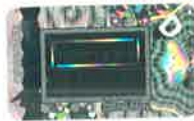
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/01635
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	04/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/068
	SAMPLING DATE	27/04/2023
	SAMPLE RECEIPT DATE	28/04/2023
	START DATE OF ANALYSIS	28/04/2023
	END DATE OF ANALYSIS	03/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM- D.G. Set 2000 KVA

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	27/04/2023		
02	TEST LOCATION		CRM- D.G. Set 2000 KVA		
03	TIME OF SAMPLING	Hrs	15:30		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	30		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	415		
08	DIFFERENTIAL PRESSURE	mm WG	3.0		
09	VELOCITY	M/Sec	7.22		
10	DIAMETER OF STACK	M	0.7		
11	STACK AREA	M <sup>2</sup>	0.3847		
12	GAS VOLUME	NM <sup>3</sup> /Hr	7174.88		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	55.31	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	39.78	--	IS 11255 (Part2):1985
		kg/day	6.85	<96	--
15	NO <sub>x</sub>	ppm	25	<100	Flue Gas Analyser-based on manufacturer's Manual
16	CO	ppm	32	--	
17	NMHC	ppm	26	--	

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023



For HORIZON SERVICES

*Manisha Nargolkar*  
F MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

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Atv (Source Emission) - 27/04/23

ACL-D.G.set-600KVA

**Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)**  
**Lab NABL Accredited - Testing - Chemical Field (TC - 7064)**

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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**TEST CERTIFICATE**

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/01636
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	04/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/068
	SAMPLING DATE	27/04/2023
	SAMPLE RECEIPT DATE	28/04/2023
	START DATE OF ANALYSIS	28/04/2023
	END DATE OF ANALYSIS	03/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	---	ACL- D.G. Set 600 KVA

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	27/04/2023		
02	TEST LOCATION		ACL- D.G. Set 600 KVA		
03	TIME OF SAMPLING	Hrs	16:20		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	11		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	378		
08	DIFFERENTIAL PRESSURE	mm WG	2.0		
09	VELOCITY	M/Sec	5.62		
10	DIAMETER OF STACK	M	0.1524		
11	STACK AREA	M <sup>2</sup>	0.0182		
12	GAS VOLUME	NM <sup>3</sup> /Hr	290.95		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	39.46	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	28.23	--	IS 11255 (Part2):1985
		kg/day	0.20	<20.16	--
15	NO <sub>x</sub>	ppm	18	--	Flue Gas Analyser-based on manufacturer's Manual
16	CO	ppm	25	--	
17	NMHC	ppm	26	--	

**Equipment Used:** -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES



*Manisha Nargolkar*  
F MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

**DISCLAIMER :**

- Sample will be retained only for 15 days.
- Above results indicate to the parameters mentioned only.
- Liability limited till issue of test reports only.
- The test report shall not be produced for any legal identity or advertised without permission of Lab.
- The effect of results relate only to the item tested.



CRM - Plant

May, 2023

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02139
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	12/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	---	CRM 01- Boiler Stack (24 MT)

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		
02	TEST LOCATION		CRM 01- Boiler Stack (24 MT)		
03	TIME OF SAMPLING	Hrs	15:10		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	30		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	492		
08	DIFFERENTIAL PRESSURE	mm WG	6.0		
09	VELOCITY	M/Sec	11.11		
10	DIAMETER OF STACK	M	1.65		
11	STACK AREA	M <sup>2</sup>	2.1371		
12	GAS VOLUME	NM <sup>3</sup> /Hr	51777.69		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	7.23	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	---	IS 11255 (Part2):1985
		kg/day	Nil	---	---
15	NO <sub>x</sub>	ppm	2.0	<100	Flue Gas Analyser-based on manufacturer's Manual

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*





CRM - Pickling

May, 2023

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02140
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	12/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 02- Pickling Exhaust Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		
02	TEST LOCATION		CRM 02- Pickling Exhaust Stack		
03	TIME OF SAMPLING	Hrs	15:35		
04	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.59	<35	USEPA METHOD 08

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)  
Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*



CRM - TCM - Stack

May, 2023

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
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**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02141
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	12/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 03- TCM Stack (CRM Plant)

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		
02	TEST LOCATION		CRM 03 - TCM Stack (CRM Plant)		
03	TIME OF SAMPLING	Hrs	16:25		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	31.5		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	315		
08	DIFFERENTIAL PRESSURE	mm WG	6.1		
09	VELOCITY	M/Sec	8.96		
10	DIAMETER OF STACK	M	2.9		
11	STACK AREA	M <sup>2</sup>	6.6019		
12	GAS VOLUME	NM <sup>3</sup> /Hr	201552.12		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	6.25	<150	IS 11255 (Part 1):1985

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*



CAL - Furnace stack

CR May '2023

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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

**TEST CERTIFICATE**

Page 1 of 1

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02142
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	12/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 04- CAL Furnace Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		
02	TEST LOCATION		CRM 04- CAL Furnace Stack		
03	TIME OF SAMPLING	Hrs	18:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	43		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	482		
08	DIFFERENTIAL PRESSURE	mm WG	6.1		
09	VELOCITY	M/Sec	11.09		
10	DIAMETER OF STACK	M	2.1		
11	STACK AREA	M <sup>2</sup>	3.4619		
12	GAS VOLUME	NM <sup>3</sup> /Hr	85440.09		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	8.25	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part 2):1985
		kg/day	Nil	--	--
15	NO <sub>x</sub>	ppm	2.0	<100	IS 11255 (Part 7):2005

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*



CAL- Cleaning Section

May, 2023

Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
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**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02143
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	12/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 05 - CAL Cleaning Section Scrubber Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		
02	TEST LOCATION		CRM 05 - CAL Cleaning Section Scrubber Stack		
03	TIME OF SAMPLING	Hrs	17:30		
13	ALKALI MIST	mg/NM <sup>3</sup>	0.55	<35	Lab Based SOP

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

ARP - CRM plant

May, 2023



Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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

**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

<b>CLIENT'S NAME &amp; ADDRESS</b>  <b>M/s Posco- Maharashtra Steel Pvt. Ltd.</b> Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	<b>REPORT NO</b>	HS/LAB/AA/02144
	<b>REPORT DATE</b>	18/05/2023
	<b>LAB REFERENCE NO.</b>	HS/LAB/AA/096
	<b>SAMPLING DATE</b>	11/05/2023
	<b>SAMPLE RECEIPT DATE</b>	12/05/2023
	<b>START DATE OF ANALYSIS</b>	12/05/2023
	<b>END DATE OF ANALYSIS</b>	17/05/2023
	<b>SAMPLING REF. / SOP NO.</b>	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	---	CRM 08- Acid Regeneration Plant Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		
02	TEST LOCATION		CRM 08- Acid Regeneration Plant Stack		
03	TIME OF SAMPLING	Hrs	17:00		
13	ACID MIST AS HCL	mg/Nm <sup>3</sup>	0.51	<35	USEPA METHOD 08

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

**MANISHA NARGOLKAR**  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

CRM - Scale Breaker I

May, 2023



Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.

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

**TEST CERTIFICATE**Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02145
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	12/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	--	CRM 09- Scale Breaker I (Pickling Line Entry) Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		
02	TEST LOCATION		CRM 09- Scale Breaker I (Pickling Line Entry) Stack		
03	TIME OF SAMPLING	Hrs	14:45		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	13.0		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	304		
08	DIFFERENTIAL PRESSURE	mm WG	6.0		
09	VELOCITY	M/Sec	8.73		
10	DIAMETER OF STACK	M	1.3		
11	STACK AREA	M <sup>2</sup>	1.3267		
12	GAS VOLUME	NM <sup>3</sup> /Hr	40889.07		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	9.02	<150	IS 11255 (Part 1):1985
14	SO <sub>2</sub>	mg/NM <sup>3</sup>	Nil	--	IS 11255 (Part2):1985
15		kg/day	Nil	--	--
15	NO <sub>x</sub>	ppm	2.0	100	Flue Gas Analyser-based on manufacturer's Manual

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*

CRM - Scale Breaker II

MAY, 2023



Lab Approved by MoEF, New Delhi. (Valid till 05/02/2024)

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

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.  
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

**TEST CERTIFICATE**

Page 1 of 1  
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/AA/02146
M/s Posco- Maharashtra Steel Pvt. Ltd. Plot No. C-1, Vile – Bhagad MIDC Industrial Area, Tal - Mangaon, Dist – Raigad, Maharashtra 402308	REPORT DATE	18/05/2023
	LAB REFERENCE NO.	HS/LAB/AA/096
	SAMPLING DATE	11/05/2023
	SAMPLE RECEIPT DATE	12/05/2023
	START DATE OF ANALYSIS	12/05/2023
	END DATE OF ANALYSIS	17/05/2023
	SAMPLING REF. / SOP NO.	HS/NABL/Air/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles and Bags	---	CRM 10- Scale Breaker II (Pickling Line Entry) Stack

**RESULTS**

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	11/05/2023		STEEL
02	TEST LOCATION		CRM 10- Scale Breaker II (Pickling Line Entry) Stack		
03	TIME OF SAMPLING	Hrs	16:00		
04	MATERIAL OF STACK		Steel		
05	STACK HEIGHT	Mtr	13.0		
06	SHAPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg K	310		
08	DIFFERENTIAL PRESSURE	mm WG	6.0		
09	VELOCITY	M/Sec	8.82		
10	DIAMETER OF STACK	M	1.3		
11	STACK AREA	M <sup>2</sup>	1.3267		
12	GAS VOLUME	NM <sup>3</sup> /Hr	40491.44		
13	PARTICULATE MATTER	mg/NM <sup>3</sup>	8.46		

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 08/2018 (ETCL model)

Date of Calibration: -07/08/2022 Next Calibration due: - 06/08/2023

For HORIZON SERVICES

*Manisha Nargolkar*

MANISHA NARGOLKAR  
(Lab Incharge)

\*\*\*\*End of Test Report\*\*\*\*





To,  
The Sub Regional Officer,

Maharashtra Pollution Control Board, Samaik Suvidha Kendra Building,  
MIDC-Mahad, At & Post- Mahad, Dist-Raigad, Pin code- 402309

**Subject : Submission of Half Yearly (Period from Jun'22 to Nov'22) Compliance report of Environmental Clearance conditions in Hard copy under compliance of the EIA Notification 2006, Rule no 10(ii).**

**Ref No:** SEAC-2010/CR.639/TC.2 Dated 8<sup>th</sup> June 2011 (CGL Plant), Ref No: SEAC-2011/CR-969/TC2 Dated 26<sup>th</sup> February 2014 (CRM Plant) & Ref No: SEAC-2012/CR-7/TC-2 Dated 5<sup>th</sup> March 2015 (ACL Plant) by Environment dept. Maharashtra

**Respected Sir,**

POSCO Maharashtra Steel Pvt. Ltd has been accorded Environmental Clearance for production of Galvanized Coil dated 8<sup>th</sup> June 2011, Cold Rolling Mill project dated 26<sup>th</sup> February 2014 & for ACL plant (Electrical Steel) dated 5<sup>th</sup> March 2015.


For Compliance under Environmental Clearance conditions, here we are submitting Half Yearly EC-Compliance report of Period from Jun'22 to Nov'22 regarding conditions given under Environmental Clearance for CGL, CRM & ACL plant by SEAC, Environment Department Maharashtra.

This is for your information & consideration under the compliance of Environmental Clearance conditions & under the EIA Notification 2006, rule no 10 (ii).

Thanking You

Yours Truly

**For POSCO Maharashtra Steel Pvt. Ltd.**

  
**Mr. Atin N. Raut**  
Sr. Manager – EHS



**Enclosures:-**

1. Annexure- I: Analysis reports (Jun'22 to Nov'22), AAQM as per NAQM notification 2009 & Work zone Air
2. Annexure- II: Ack. copies from MPCB regarding regular submission of Quarterly Compliance reports
3. Annexure -III: Analysis reports of Ambient & Work zone Noise Level Monitoring as per The EP Act 1986.
4. Annexure- IV: Ack. copies of Hz Waste Annual Returns in Form IV for 2022 (FY:2021-22) & Annexure- IVB: Ack. copies from MPCB for Intimation of Hz Waste Disposal in Form-10.
5. Annexure- V: MWML (CHWTSDF) Membership Certificate (Valid till 31.03.2023) for disposal of Hz. waste.
6. Annexure-VI ETP treated water analysis report by MPCB JVS report, Internal & External (MoEF) Lab.
7. Annexure- VII: Copies of Public Notice - Press release of Advertisement regarding grant of EC.
8. Annexure- VIII: Stack Emission Monitoring Reports as per NAQM 2009 (Jun'22 to Nov'22).
9. Annexure- IX: Report Card of MPCB Star Rating Programme.
10. Annexure- X: Ack. Copies of submitted Last Half Yearly Compliance report on dtd. 01.06.2022.
11. Annexure- XI: Environmental Statement –Form-V (FY 2021-22) of Posco-MH CGL, CRM & ACL Lines respt.
12. Annexure- XII: BSI Certification of Environmental Management System (EMS) - ISO 14001:2015.

**CC – The RO MPCB- Raigad Bhavan, The MS MPCB- Mumbai, The Zonal Officer-CPCB-Gujarat,  
The RO-MoEFCC-West –Central Zone-Nagpur, The Secretary- Environment Dept. (Govt. of MH.)-Mumbai**





**MAHARASHTRA**  
PMSPL/EHSI/EC Com-02/2022

*Ack. copy of Half Yearly Report (Jun to Nov'22)*



CH12037348514 INR 6377120373485  
SR:RITZBHNR (SG, RAJESHWAR) (44-120)  
TO: THE SEC. ENVIRONMENT DEPT  
PIN: 400032, Nantralaya SU Mumbai  
From: POSCO HHH S.VILE BHAGAD  
WT: 358gms  
amt: 59.00(Cash) Tax: 9.00  
Track on www.indiapost.gov.in

Date: 30<sup>th</sup> Nov, 2022  
*The Secretary (Env. Dept)*  
Mumbai

To,  
**The Secretary**  
Environment Department (Govt. of Maharashtra)  
15<sup>th</sup> Floor, New Administrative Building, (In front of M  
Madam Cama Road, Mumbai – 400 032

**Subject: Submission of Half Yearly (Period from Jun'22 to Nov'22) Compliance report of Environmental Clearance conditions in Hard copies under Compliance of the EIA Notification 2006, Rule No 10(ii).**

**Ref No:** SEAC-2010/CR.639/TC.2 Dated 8<sup>th</sup> June 2011 (CGL Plant), Ref No: SEAC-2011/CR-969/TC2 Dated 26<sup>th</sup> February 2014 (CRM Plant) & Ref No: SEAC-2012/CR-7/TC-2 Dated 5<sup>th</sup> March 2015 (ACL Plant) by Environment Dept. Maharashtra

**Respected Sir,**

POSCO Maharashtra Steel Pvt. Ltd has been accorded Environmental Clearance for production of Galvanized Coil dated 8<sup>th</sup> June 2011, Cold Rolling Mill project dated 26<sup>th</sup> February 2014 & for ACL plant (Electrical Steel) dated 5<sup>th</sup> March 2015.

For Compliance under Environmental Clearance conditions, here we are submitting Half Yearly EC-Compliance report of Period from Jun'22 to Nov'22 regarding conditions given under Environmental Clearance for CGL, CRM & ACL plant by SEAC, Environment Department Maharashtra.

This is for your information & consideration under the compliance of Environmental Clearance conditions & under the EIA Notification 2006, rule no 10 (ii).

Thanking You  
Yours Truly

**For POSCO Maharashtra Steel Pvt. Ltd.**

*com*

**Mr. Atin N. Raut**  
Sr. Manager - EHS



**Enclosures:-**

1. Annexure- I: Analysis reports (Jun'22 to Nov'22), AAQM as per NAQM notification 2009 & Work zone Air.
2. Annexure- II: Ack. copies from MPCB regarding regular submission of Quarterly Compliance report.
3. Annexure –III: Analysis reports of Ambient & Work zone Noise Level Monitoring as per The EP Act 1986.
4. Annexure- IV: Ack. copies of Hz Waste Annual Returns in Form IV for 2022 (FY:2021-22) & Annexure- IVB: Ack. copies from MPCB for Intimation of Hz Waste Disposal in Form-10.
5. Annexure- V: MWML (CHWTSDF) Membership Certificate (Valid till 31.03.2023) for disposal of Hz. waste.
6. Annexure-VI ETP treated water analysis report by MPCB JVS report, Internal & External (MoEF) Lab.
7. Annexure- VII: Copies of Public Notice - Press release of Advertisement regarding grant of EC.
8. Annexure- VIII: Stack Emission Monitoring Reports as per NAQQM 2009 (Jun'22 to Nov'22).
9. Annexure- IX: Report Card of MPCB Star Rating Programme.
10. Annexure- X: Ack. Copies of submitted Last Half Yearly Compliance report on dtd. 01.06.2022.
11. Annexure- XI: Environmental Statement –Form-V (FY 2021-22) of Posco-MH CGL, CRM & ACL Lines respt.
12. Annexure- XII: BSI Certification of Environmental Management System (EMS) - ISO 14001:2015.

**CC – The SRO MPCB Mahad- Raigad, The RO MPCB- Raigad Bhavan, The MS MPCB- Mumbai, The Zonal Officer-CPCB-Gujarat, The RO-MoEFCC-West –Central Zone-Nagpur.**



Date: 30<sup>th</sup> Nov, 2022

The Zonal Officer  
Gujarat

To,  
**The Zonal Officer**  
Central Pollution Control Board,  
Parivesh Bhavan, Opp.VNC Word Office No-10  
Subhanpura, Vadodara (Gujrat) 390023

**Subject : Submission of Half Yearly (Period from Jun'22 to Nov'22) Compliance report of Environmental Clearance conditions in Hard copy under compliance of the EIA Notification 2006, Rule no 10(ii).**

**Ref No:** SEAC-2010/CR.639/TC.2 Dated 8<sup>th</sup> June 2011 (CGL Plant), Ref No: SEAC-2011/CR-969/TC2 Dated 26<sup>th</sup> February 2014 (CRM Plant) & Ref No: SEAC-2012/CR-7/TC-2 Dated 5<sup>th</sup> March 2015 (ACL Plant) by Environment dept. Maharashtra

**Respected Sir,**

POSCO Maharashtra Steel Pvt. Ltd has been accorded Environmental Clearance for production of Galvanized Coil dated 8<sup>th</sup> June 2011, Cold Rolling Mill project dated 26<sup>th</sup> February 2014 & for ACL plant (Electrical Steel) dated 5<sup>th</sup> March 2015.

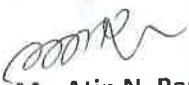

For Compliance under Environmental Clearance conditions, here we are submitting Half Yearly EC-Compliance report of Period from Jun'22 to Nov'22 regarding conditions given under Environmental Clearance for CGL, CRM & ACL plant by SEAC, Environment Department Maharashtra.

This is for your information & consideration under the compliance of Environmental Clearance conditions & under the EIA Notification 2006, rule no 10 (ii).

Thanking You

Yours Truly

For POSCO Maharashtra Steel Pvt. Ltd

  
**Mr. Atin N. Raut**  
Sr. Manager – EHS  


**Enclosures:-**

1. Annexure- I: Analysis reports (Jun'22 to Nov'22), AAQM as per NAQM notification 2009 & Work zone Air.
2. Annexure- II: Ack. copies from MPCB regarding regular submission of Quarterly Compliance report.
3. Annexure -III: Analysis reports of Ambient & Work zone Noise Level Monitoring as per The EP Act 1986.
4. Annexure- IV: Ack. copies of Hz Waste Annual Returns in Form IV for 2022 (FY:2021-22) & Annexure- IVB: Ack. copies from MPCB for Intimation of Hz Waste Disposal in Form-10.
5. Annexure- V: MWML (CHWTSDF) Membership Certificate (Valid till 31.03.2023) for disposal of Hz. waste.
6. Annexure-VI ETP treated water analysis report by MPCB JVS report, Internal & External (MoEF) Lab.
7. Annexure- VII: Copies of Public Notice - Press release of Advertisement regarding grant of EC.
8. Annexure- VIII: Stack Emission Monitoring Reports as per NAQOM 2009 (Jun'22 to Nov'22).
9. Annexure- IX: Report Card of MPCB Star Rating Programme.
10. Annexure- X: Ack. Copies of submitted Last Half Yearly Compliance report on dtd. 01.06.2022.
11. Annexure- XI: Environmental Statement - Form-V (FY 2021-22) of Posco-MH CGL, CRM & ACL Lines respt.
12. Annexure- XII: BSI Certification of Environmental Management System (EMS) - ISO 14001:2015.

**CC – The SRO MPCB Mahad- Raigad, The RO MPCB- Raigad Bhavan, The MS MPCB- Mumbai, The RO-MoEFCC-West –Central Zone-Nagpur, The Secretary- Environment Dept. (Govt. of MH.)-Mumbai**



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Annexure - XI<sup>th</sup>

Environment Audit Report

Form-V - FY 2021-22

CGL-Line

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000049389

Submitted Date

29-09-2022

PART A

Company Information

Company Name

Posco Maharashtra Steel Pvt. Ltd.

Application UAN number

MPCB-CONSENT-0000128520 Dated 28.12.2021

Address

Plot No. C-1 & C-1 Part, Vile Bhagad  
MIDC, Tal-Mangaon, Dist-Raigad, 402308

Plot no

Plot No: C-1 & C-1 Part,

Taluka

Mangaon

Village

Vile Bhagad MIDC

Capital Investment (In lakhs)

123124.00

Scale

L.S.I.

City

Raigad

Pincode

402308

Person Name

Kwang Soo Kim

Designation

Director

Telephone Number

8149700913

Fax Number

02140661198

Email

atinraut@posco.net

Region

Industry Category

Red

Industry Type

R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing

Last Environmental statement submitted online

yes

Consent Number

1.0/CAC/UAN No.0000128520/CR/2204000648  
Date of Issue: Date: 12/04/2022

Consent Issue Date

2022-04-12

Consent Valid Upto

2027-02-28

Establishment Year

2011

Date of last environment statement submitted

Sep 29 2021 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

Galvanized Coils

Consent Quantity

450000

Actual Quantity

386066

UOM

Ton/Y

H2 (Hydrogen Gas)

204

89.87

Ton/Y

N2 (Nitrogen Gas)

89280

20519

Ton/Y

**By-product Information**

<b>By Product Name</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Zinc Dross	2400	1555.43	Ton/Y

**Part-B (Water & Raw Material Consumption)****1) Water Consumption in m3/day**

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
<b>Cooling</b>	750.00	592.00
<b>Domestic</b>	253.00	194.00
<b>All others</b>	0.00	0.00
<b>Total</b>	1883.00	1395.00

**2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	962	700	CMD
Domestic Effluent	160	120	CMD

**2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Galvanizing Coils	1.36	1.32	Ton/Ton
H2 (Hydrogen Gas)	0.0166	0.0144	Ton/Ton
N2 (Nitrogen Gas)	0.576	0.00110	Ton/Ton

**3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Natural Gas	28.97	34.82	
H2 (Hydrogen Gas)	2.95	2.59	
N2 (Nitrogen Gas)	70.65	42.52	
Full Hard Coil	0.834	1.00	Ton/Ton
NaOH	0.00067	0.00071	Ton/Ton
Phosphate Solution	0.00118	0.00145	Ton/Ton
Wet Oil	0.00077	0.00108	Ton/Ton
Chrome Free Solution	0.00098	0.00114	Ton/Ton
Chromate	0.00022	0.00033	Ton/Ton
Anti Rust Oil	0.00025	0.000327	Ton/Ton
Zinc	0.02476	0.02406	Ton/Ton

**4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Natural Gas	73102764	13441126	
HSD	2630	550	KL/A

**Part-C**

**Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

**[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
pH	7.78	7.78	0	5.5 to 9.0	With in Norms
Suspended Solids	4.89	6.69	0	<100 mg/Lit	With in Norms
BOD 3 Days	8.51	11.64	0	<30 mg/Lit	With in Norms
COD	36.74	50.27	0	<250 mg/Lit	With in Norms
Oil & Grease	0.21	0.30	0	<10 mg/Lit	With in Norms
Total Dissolved Solids	556.10	760.90	0	<2100 mg/Lit	With in Norms
Chlorides	262.81	359.60	0	<600 mg/Lit	With in Norms
Sulphates	28.58	39.119	0	<1000 mg/Lit	With in Norms
Lead (Pb)	0.002	0.0021	0	<0.1 mg/Lit	With in Norms
Cadmium (Cd)	0.007	0.0102	0	<2 mg/Lit	With in Norms
Total Chromium (Cr)	0.002	0.0024	0	<2 mg/Lit	With in Norms
Nickel (Ni)	0.001	0.0018	0	<3 mg/Lit	With in Norms
Zinc (Zn)	0.086	0.1183	0	<5 mg/Lit	With in Norms
Iron (Fe)	0.025	0.0341	0	<3 mg/Lit	With in Norms
Cyanide (CN)	0.000	0.000	0	<0.2 mg/Lit	With in Norms
Hexavalent Chromium as Cr	0.000	0.000	0	<0.1 mg/Lit	With in Norms

**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Stack 1 Boiler Stack Particulate Matter	1.42	9.00	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	<4.8Kg/Hr	With in Norms
NOX	1.98	6.66	0	<100 ppm	With in Norms
Stack 2 Furnace Stack Particulate Matter	5.39	10.80	0	<150 mg/Nm3	With in Norms
SOX	1.95	0.10	0	<4.8Kg/Hr	With in Norms
NOX	8.16	8.70	0	<100 ppm	With in Norms
Stack 3 No.1 Cleaning Section Alkali Mist	0.24	0.88	0	<35 mg/Nm3	With in Norms
Stack 4 Nano Coating Stack Acid Mist	0.92	3.4	0	<35 mg/Nm3	With in Norms
Stack 5 Post Treatment Stack Acid Mist	1.58	5.81	0	<35 mg/Nm3	With in Norms

Stack 6 Pot Roll Cleaning Room - Acid Mist	1.08	3.99	0	<35 mg/Nm3	With in Norms
Stack 7 DG Set 2000 KVA Particulate Matter	0.5	5.50	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	<4.8Kg/Hr	With in Norms
NOX	0.68	4.00	0	<100 ppm	With in Norms
NMHC	4.16	45.70	0	<100 mg/Nm3	With in Norms
CO	3.48	37.75	0	<150 ppm	With in Norms

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	9.12	18.63	MT/A
6.3 Other residues from processing of zinc ash or skimmings	744.28	1555.43	MT/A
Other Hazardous Waste	5.59	9.37	MT/A
12.2 Spent acid and alkali	29.99	19.96	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1771	3009	Nos./Y
1.6 Spent catalyst and molecular sieves	0.00	0.00	MT/A

#### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	358.46	450.32	MT/A

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Metal Scrap	7700	11538.47	MT/A

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	MT/A

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

### 1) Hazardous Waste



<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	18.63	MT/A	Oily, Organic Liquid Form
6.3 Other residues from processing of zinc ash or skimmings	1555.53	MT/A	Zinc Oxide, Solid Form
12.2 Spent acid and alkali	19.96	MT/A	NaOH ppt, Other Chemical ppt
5.1 Used or spent oil	18.63	MT/A	Oily, Organic Liquid Form
Other Hazardous Waste	9.37	MT/A	CrO3
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3009	Nos./Y	HDPE,MS Drum, Plastic Carboys etc.
35.3 Chemical sludge from waste water treatment	450.32	MT/A	Chemical ppt, Hydroxide, Sulphite, Phosphate etc.
1.6 Spent catalyst and molecular sieves	0.00	Kg/Annum	Oily, Organic Liquid Form

## 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Metal Scrap	11538.47	MT/A	Solid Metal Scrap

## Part-G

### Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
New Tree Plantations Outside Plant (Nearby Villages) Plantations: 520 Nos. & Within Plant Premises: 824Nos. Total Tree Plantations:1344	0.00	0.00	0.00	0.00	7.7	0.00

## Part-H

### Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

#### [A] Investment made during the period of Environmental Statement

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Development & Maintenance of Green Belt Area (Cost towards Manpower & Equipment Maintenance)	Increase in number of trees, Conservation of existing and new planted trees will improve biodiversity of plant area	45

#### [B] Investment Proposed for next Year

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Landscape & Green Belt Area Maintenance including New Tree Plantation (Cost towards Manpower & Equipment Maintenance)	Soil Conservation and water reuse for garden (Reduction of Natural Resources)	45

## Part-I

### Any other particulars for improving the quality of the environment.

**Particulars**

Green Belt Development & Maintenance. Tree Plantation activity done (Inside green area-2400 Nos.), Provided sprinkler & drip irrigation system to green coverage area, Certification of EMS- ISO 14001:2015 with Validity 23rd Feb, 2024 & OHSAS - ISO 45001:2018 with Validity 23rd Feb, 2024, Celebrated WED on 5th Jun.

**Name & Designation**

Kwang Soo Kim (Director)

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000049389

**Submitted On:**

29-09-2022



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Annexure - XI<sup>th</sup> (CRM)  
Environment Audit Report  
(Form-V) FY 2021-2022  
Annexure - X

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000048851

**Submitted Date**

29-09-2022

## PART A

### Company Information

**Company Name**

OSCO MAHARASHTRA STEEL PVT.LTD.

**Application UAN number**

0000047766-18

**Address**

Plot No. C-1 & C-1 Part, Vile Bhagad  
MIDC, Tal-Mangaon, Dist-Raigad,  
402308

**Plot no**

C-1 & C-1 Part

**Taluka**

Mangaon

**Village**

Vile Bhagad MIDC

**Capital Investment (In lakhs)**

38124300000

**Scale**

L.S.I.

**City**

Raigad

**Pincode**

402308

**Person Name**

Kwang Soo Kim

**Designation**

Director

**Telephone Number**

8149700913

**Fax Number**

02140661198

**Email**

atinraut@posco.net

**Region**

SRO-Mahad

**Industry Category**

Red

**Industry Type**

R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing

**Last Environmental statement submitted online**

yes

**Consent Number**

1.0/BO/CAC-Cell/Auto-renewal/UAN  
No.0000047766-18/CAC-1806000029,  
Date-01/06/2018

**Consent Issue Date**

2018-06-01

**Consent Valid Upto**

2023-06-30

**Establishment Year**

2015

**Date of last environment statement submitted**

Sep 29 2021 12:00:00:000AM

**Industry Category Primary (STC Code) & Secondary (STC Code)**

### Product Information

**Product Name**

Cold Roll Coils

**Consent Quantity**

1000000

**Actual Quantity**

744148

**UOM**

Ton/Y

Full Hard Coils

800000

36448

Ton/Y

**By-product Information**

<b>By Product Name</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
NA	0	0	Ton/Y

**Part-B (Water & Raw Material Consumption)****1) Water Consumption in m3/day**

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
<b>Cooling</b>	750.00	497.00
<b>Domestic</b>	500.00	199.00
<b>All others</b>	0.00	0.00
<b>Total</b>	4000.00	1987.00

**2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	2000	482	CMD
Domestic Effluent	300	140	CMD

**2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Cold Roll Coils	4.32	0.49	Ton/Ton
Full Hard Coils	0.58	9.95	Ton/Ton

**3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Natural Gas-CAL	27.08	28.90	
Natural Gas-PCM	5.01	4.59	
H2 (Hydrogen Gas)	1.47	1.45	
N2 (Nitrogen Gas)	43.33	43.48	
Full Hard Coil-CAL	0.76	1.02	Ton/Ton
HR Coil-PCM	0.95	1.03	Ton/Ton
NaOH Cleaner A	0.00038	0.00054	Ton/Ton
Wet Oil	0.00021	0.00029	Ton/Ton
Antirust Oil-BW90EG	0.00034	0.00041	Ton/Ton
Rolling Oil	0.00031	0.00024	Ton/Ton
HCL	0.00053	0.00066	Ton/Ton
Pickling Inhibitor	0.00001	0.00001	Ton/Ton

**4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Natural Gas	25024668	24071357	
HSD	1753	600	KL/A

**Part-C**

**Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

**[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
pH	7.95	7.950	0	5.5 to 9.0	With in Norms
Suspended Solids	0.72	10.023	0	<100 mg/Lit	With in Norms
BOD 3 Days	0.84	11.69	0	<30 mg/Lit	With in Norms
COD	3.17	44.20	0	<250 mg/Lit	With in Norms
Oil & Grease	0.02	0.336	0	<10 mg/Lit	With in Norms
Total Dissolved Solids	54.52	760.00	0	<2100 mg/Lit	With in Norms
Chlorides	23.93	333.60	0	<600 mg/Lit	With in Norms
Sulphates	11.654	162.451	0	<1000 mg/Lit	With in Norms
Lead (Pb)	0.00	0.002	0	<0.1 mg/Lit	With in Norms
Cadmium (Cd)	0.001	0.012	0	<2 mg/Lit	With in Norms
Total Chromium (Cr)	0.000	0.002	0	<2 mg/Lit	With in Norms
Nickel (Ni)	0.000	0.003	0	<3 mg/Lit	With in Norms
Zinc (Zn)	0.007	0.098	0	<5 mg/Lit	With in Norms
Iron (Fe)	0.070	0.971	0	<3 mg/Lit	With in Norms
Cyanide (CN)	0.000	0.000	0	<0.2 mg/Lit	With in Norms
Hexavalent Chromium as Cr	0.000	0.000	0	<0.1 mg/Lit	With in Norms

**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Stack 1 (Boiler) Particulate Matter	10.35	14.14	0	<150 mg/Nm3	With in Norms
NOX	8.34	11.40	0	<100 ppm	With in Norms
SOX	0.70	0.95	0	96 Kg/Day	With in Norms
Stack 2 (Pickling Exhaust) Particulate Matter	0.00	0.00	0	<150 mg/Nm3	With in Norms
Acid Mist	0.47	2.38	0	<35 mg/Nm3	With in Norms
Stack 3 (TCM) Particulate Matter	62.10	19.14	0	<150 mg/Nm3	With in Norms
Stack 4 (CAL Furnace Stack) Particulate Matter	13.32	12.22	0	<150 mg/Nm3	With in Norms
NOX	9.81	9.000	0	<100 ppm	With in Norms
SOX	0.32	0.30	0	96 Kg/Day	With in Norms
Stack 5 (Cleaning Section-CAL) Alkali Mist	0.04	0.21	0	<35 mg/Nm3	With in Norms

Stack 6 (SPM-CAL) Particulate Matter	6.41	11.0	0	<150 mg/Nm3	With in Norms
Stack 7 (DG Set 2000 KVA) Particulate Matter	0.39	8.0	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	96 Kg/Day	With in Norms
NOX	0.48	10.00	0	<100 ppm	With in Norms
NMHC	1.93	40.00	0	<100 mg/Nm3	With in Norms
CO	0.77	16.00	0	<50 ppm	With in Norms
Stack 8 (ARP) Particulate Matter	0.00	0.00	0	<150 mg/Nm3	With in Norms
Acid Mist	1.36	3.45	0	<35 mg/Nm3	With in Norms
Stack 9 (Scale Breaker I) Particulate Matter	14.28	13.52	0	<150 mg/Nm3	With in Norms
Stack 10 (Scale Breaker II) Particulate Matter	13.01	11.37	0	<150 mg/Nm3	With in Norms
Stack 11 (Roll Coating Shop) Acid Mist	5.80	7.19	0	<35 mg/Nm3	With in Norms
Stack 12 (Shot Blasting Machine) Particulate Matter	0.00	0.00	0	<150 mg/Nm3	With in Norms

## Part-D

### **HAZARDOUS WASTES**

#### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	25.81	25.75	MT/A
5.2 Wastes or residues containing oil	154.76	187.31	MT/A
5.2 Wastes or residues containing oil	70.71	108.81	MT/A
12.2 Spent acid and alkali	12.49	39.38	MT/A
13.1 Spent pickling liquor	37102	43726	KL/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	2240	4893	Nos./Y

#### **2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	659.75	699.46	MT/A

## Part-E

### **SOLID WASTES**

#### **1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Metal Scrap	36588.52	75863.49	MT/A
Iron Oxide	5590.21	6754.56	MT/A
Scale Breaker Scale	32.89	33.20	MT/A

#### **2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
---------------------------------	---	--	------------

3) Quantity Recycled or Re-utilized within the unit Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
13.1 Spent pickling liquor	37102	43726	KL/A

**Part-F**

*Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.*

**1) Hazardous Waste**

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	25.75	MT/A	Oily, Organic Liquid Form
5.2 Wastes or residues containing oil	187.31	MT/A	Oily, Solid Residue
5.2 Wastes or residues containing oil	108.81	MT/A	Iron Content
12.2 Spent acid and alkali	39.28	MT/A	NaOH ppt, Other Chemical ppt.
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	4893	Nos./Y	HDPE,MS Drum, Plastic Carboys etc
35.3 Chemical sludge from waste water treatment	699.46	MT/A	Chemical ppt, Hydroxide, Sulphite, Phosphate etc
13.1 Spent pickling liquor	43726	KL/A	FeCL2, FeCL3, HCL

**2) Solid Waste**

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Metal Scrap	75863.49	MT/A	Solid Metal Scrap
Iron Oxide	6754.56	MT/A	Iron Oxide Powder (By-Product-ARP Plant)
Iron Scale (PL-Scale Exhaust System)	33.20	MT/A	Iron Scale Powder - HR Coil Rust

**Part-G**

*Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.*

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Maintenance of Green Belt & Landscape Area	0	0	0	0	45	0

**Part-H**

*Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.*

**[A] Investment made during the period of Environmental Statement**

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Development & Maintenance of Green Belt Area (Cost towards Manpower & Equipment Maintenance)	Increase in number of trees, Conservation of existing and new planted trees will improve biodiversity of plant area.	45

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Maintenance of Green Area (Green Belt, Landscape & Garden)	Protection of Green Cover	45

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

Green Belt Development & Maintenance. Tree Plantation activity done (Inside green area-2400 Nos.), Provided sprinkler & drip irrigation system to green coverage area, Certification of EMS- ISO 14001:2015 with Validity 23rd Feb, 2024 & OHSAS - ISO 45001:2018 with Validity 23rd Feb, 2024, Celebrated WED on 5th Jun.

**Name & Designation**

Kwang Soo Kim (Director)

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000048851

**Submitted On:**

19-09-2022

POSECO  
MAHARASHTRA STEEL





Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Annexure - VI<sup>th</sup> (AeL)  
Environmental Audit Report  
FY 2021-22.

**FORM V**

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000049435

**Submitted Date**

29-09-2022

**PART A**

**Company Information**

**Company Name**

Posco Maharashtra Steel Pvt. Ltd,

**Application UAN number**

MPCB-CONSENT-92026-20

**Address**

Plot No. C-1 & C-1 Part, Vile Bhagad  
MIDC, Tal-Mangaon, Dist-Raigad,  
402308

**Plot no**

C-1/1 & C-1( Part-1)

**Taluka**

Mangaon

**Village**

Vile Bhagad MIDC

**Capital Investment (In lakhs)**

76615.00

**Scale**

L.S.I.

**City**

Raigad

**Pincode**

402308

**Person Name**

Kwang Soo Kim

**Designation**

Director

**Telephone Number**

8149700913

**Fax Number**

02140661198

**Email**

atinraut@posco.net

**Region**

SRO-Mahad

**Industry Category**

Red

**Industry Type**

R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing

**Last Environmental statement submitted online**

yes

**Consent Number**

1.0/BO/CAC-Cell/UAN  
No:-92026-20/Autorenewal/CAC-2006000453

**Consent Issue Date**

2020-06-10

**Consent Valid Upto**

2025-06-30

**Establishment Year**

2013

**Date of last environment statement submitted**

Sep 29 2021 12:00:00:000AM

**Industry Category Primary (STC Code) & Secondary (STC Code)**

**Product Information**

**Product Name**

CRNO Coil (Cold Rolled Non-Grain Oriented Electrical Steel)

**Consent Quantity**

300000

**Actual Quantity**

190519

**UOM**

Ton/Y

**By-product Information**

**By Product Name**

**Consent Quantity**

**Actual Quantity**

**UOM**

**Part-B (Water & Raw Material Consumption)**

**1) Water Consumption in m3/day**

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
Cooling	740.00	163.00
Domestic	560.00	36.00
All others	20.00	13.00
Total	150.00	0.00
	1470.00	212.00

**2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	684	212	CMD
Domestic Effluent	16	09	CMD

**2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
CRNO Coil (Cold Rolled Non-Grain Oriented Electrical Steel)	0.35	0.41	Ton/Ton

**3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
H2 (Hydrogen Gas)	0.00014	0.00016	Ton/Ton
N2 (Nitrogen Gas)	0.04563	0.04890	Ton/Ton
Full Hard Coil	0.85	1.02	Ton/Ton
NaOH	0.00067	0.00082	Ton/Ton
PS-A	0.00103	0.00104	Ton/Ton
PS-B	0.000718	0.000719	Ton/Ton
Coating Oil	0.00148	0.00174	Ton/Ton

**4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Natural Gas	21600000	6994966	
HSD	368	150	KL/A

**Part-C**

**Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

**[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (KL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
pH	7.9	7.950	0	5.5 to 9.0	With in Norms

Suspended Solids	2.362	10.023	0	<100 mg/Lit	With in Norms
BOD 3 Days	2.755	11.690	0	<30 mg/Lit	With in Norms
COD	10.419	44.205	0	<250 mg/Lit	With in Norms
Oil & Grease	0.0792	0.336	0	<10 mg/Lit	With in Norms
Total Dissolved Solids	179.079	760.00	0	<2100 mg/Lit	With in Norms
Chlorides	78.625	333.60	0	<600 mg/Lit	With in Norms
Sulphates	38.292	162.451	0	<1000 mg/Lit	With in Norms
Lead (Pb)	0.0005	0.002	0	<0.1 mg/Lit	With in Norms
Cadmium (Cd)	0.0028	0.012	0	<2 mg/Lit	With in Norms
Total Chromium (Cr)	0.0005	0.002	0	<2 mg/Lit	With in Norms
Nickel (Ni)	0.0007	0.003	0	<3 mg/Lit	With in Norms
Zinc (Zn)	0.0231	0.098	0	<5 mg/Lit	With in Norms
Iron (Fe)	0.229	0.971	0	<3 mg/Lit	With in Norms
Cyanide (CN)	0.000	0.000	0	<0.2 mg/Lit	With in Norms
Hexavalent Chromium as Cr	0.000	0.000	0	<0.1 mg/Lit	With in Norms

**[B] Air (Stack)**

**Pollutants Detail**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Stack1 (Annealing Furnace - Preheating section , Total Particulate Matter	2.21	17.33	0	<150 mg/Nm3	With in Norms
SOX	0.67	5.24	0	96Kg/day	With in Norms
NOX	2.34	18.32	0	<100 ppm	With in Norms
Stack 2- (Annealing Furnace - Radiant tube heating section, Total Particulate Matter	2.64	13.41	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	96Kg/day	With in Norms
NOX	1.82	9.25	0	<100 ppm	With in Norms
Stack 3 (Annealing Furnace -Air jet cooling section) Particulate Matter	0.00	0.00	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	96Kg/day	With in Norms
NOX	0.00	0.00	0	<100 ppm	With in Norms
Stack 4 (Drying Furnace - Drying section), Particulate Matter	1.13	13.34	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	96Kg/day	With in Norms
NOX	0.83	9.78	0	<100 ppm	With in Norms
Stack 5 (Drying Furnace -Curing section), Particulate Matter	1.5	11.26	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	96Kg/day	With in Norms
NOX	1.68	12.58	0	<100 ppm	With in Norms

Stack 6 (Drying furnace -Air cooling section), Particulate Matter	0.00	0.00	0	<150 mg/Nm3	With in Norms
Stack 7 Drying furnace , Particulate Matter	0.00	0.00	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	96Kg/day	With in Norms
NOX	0.00	0.00	0	<100 ppm	With in Norms
Stack 8 Cleaning section (water spray type wet scrubber) Alkali Mist	0.28	1.78	0	< 35 mg/Nm	With in Norms
Stack 9 Coater stack , Acid Mist	0.84	5.32	0	< 35 mg/Nm	With in Norms
Stack 10 DG Set (600 KVA), Particulate matter	0.14	15.5	0	<150 mg/Nm3	With in Norms
SOX	0.003	0.40	0	< 15.72 Kg/Day	With in Norms
NOX	0.08	8.5	0	<100 ppm	With in Norms
NMHC	0.40	42.95	0	<100 mg/Nm3	With in Norms
CO	0.35	38.50	0	<150 ppm	With in Norms

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	4.2	10.40	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	683	670	Nos./Y

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	180.67	260.46	MT/A

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Metal Scrap	1950	2919.06	MT/A

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
NA	0.00	0.00	MT/A

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0.00	0.00	MT/A

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	10.40	MT/A	Oily, Organic Liquid Form
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	670	Nos./Y	HDPE, MS Drum, Plastic Carboys etc.
35.3 Chemical sludge from waste water treatment	260.46	MT/A	Chemical ppt, Hydroxide, Sulphite, Phosphate etc.

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Metal Scrap	2919.06	MT/A	Solid Metal Scrap

**Part-G**

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
NA	0.00	0.00	0	0.00	0.00	0.00

**Part-H**

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Development & Maintenance of Green Belt Area (Cost towards Manpower & Equipment Maintenance)	Increase in number of trees, Conservation of existing and new planted trees will improve biodiversity of plant area	30

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Landscape & Green Belt Area Maintenance including New Tree Plantation (Cost towards Manpower & Equipment Maintenance)	Soil Conservation and water reuse for garden (Reduction of Natural Resources)	30

**Part-I**

Any other particulars for improving the quality of the environment.

**Particulars**

Green Belt Development & Maintenance. Tree Plantation activity done (Inside green area-2400 Nos.), Provided sprinkler & drip irrigation system to green coverage area, Certification of EMS- ISO 14001:2015 with Validity 23rd Feb, 2024 & OHSAS - ISO 45001:2018 with Validity 23rd Feb, 2024, Celebrated WED on 5th Jun.

**Name & Designation**

Kwang Soo Kim

**UAN No:**

**Submitted On:**

29-09-2022

POSCO  
MAHARASHTRA STEEL

bsi.

Annexure - XII - BSI Certification

EMS - ISO 14001:2015



# Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

POSCO Maharashtra Steel Private Limited  
Plot No. C-1  
Vile Bhagad, MIDC Industrial Area  
Tal: Mangaon  
Dist. Raigad 402 308  
Maharashtra  
India

Holds Certificate No:

**EMS 687870**

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

The Manufacture of Hot Dip Galvanizing (GI), Galvannealing (GA), Cold Rolled Continuous Annealed (CRCA), Cold Rolled Full Hard (CRFH), Cold Rolled Non-grain Oriented (CRNO-Semi-processed and fully processed), Hot Rolled, Pickled and Oiled (HRPO) Steel Coils

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2018-02-24

Effective Date: 2021-02-24

Latest Revision Date: 2021-03-21

Expiry Date: 2024-02-23

Page: 1 of 2



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Further clarifications regarding the scope of this certificate and the applicability of ISO 14001:2015 requirements may be obtained by consulting the organization.

This certificate is valid only if provided original copies are in complete set.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000  
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.

A Member of the BSI Group of Companies.

Certificate No: **EMS 687870**

Location

Registered Activities

POSCO Maharashtra Steel Private Limited  
Plot No. C-1  
Vile Bhagad, MIDC Industrial Area  
Tal: Mangaon  
Dist. Raigad 402 308  
Maharashtra  
India

Top Management, Compliance Obligation/ Legal Requirement and Emergency Preparedness and Response, Internal audit and Management Review, Resource Management / Training & Organization Knowledge Purchase and Stores including hazardous waste Storage and Disposal, Logistics ? Inbound and Outbound, Utility , Mech Maintenance , Elec maintenance, Manufacturing ? CGL, PCM, CAL, ACL , Manufacturing Process Development/Operation support , Laboratory, Canteen 1,2,3 , OHC , Security

Posco Maharashtra Steel Private Limited  
7th Floor, World Trade Centre,  
Opp EON.Free Zone, MIDC Knowledge Park,  
Kharadi  
Pune 411 014  
Maharashtra  
India

HR & Admin

Original Registration Date: 2018-02-24

Latest Revision Date: 2021-03-21

Effective Date: 2021-02-24

Expiry Date: 2024-02-23

Page: 2 of 2

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This certificate is valid only if provided original copies are in complete set.



Mr. Bay In Kyo  
Dy. Managing Director  
POSCO Maharashtra Steel Pvt. Ltd.  
Corporate Office

Sustainable  
Development  
Foundation



A UNIT OF EK KAAM DESH KE NAAM

**Congratulations!!!**

**Sub: Selected "Gold Award" for "14th Exceed Green Future Award 2023" in Environment Preservation category**

Dear Mr. Bay In Kyo,

**It gives us immense pleasure to inform that the Jury Committee for "Exceed Award 2023" has selected POSCO Maharashtra Steel Pvt. Ltd., Raigad, Maharashtra for "Gold Award" in "14th Exceed Green Future Award 2023" in Environment Preservation category under Steel Sector.**

"Sustainable Development Foundation" (A unit of Ek Kaam Desh Ke Naam) is a Non-Government Organization working for social upliftment since 2007, with a vision to bring about change in the national social development, has taken a step forward to recognize & honour Corporates and had initiated EXCEED Awards in the field of Environment, Occupational Health and Safety, Renewable Energy, Oil & Gas, HR & CSR. Apart from this EKDKN working for social upliftment of the society since 2007, with a vision to bring change in the national scenario.

Ek Kaam Desh Ke Naam presently focused on the following five major sectors, which are, indeed, vital for the development & growth of our country:

1. Health and Safety
2. Environment and Renewal Energy
3. Education
4. Skill Development and Livelihood
5. Community Development

You will be pleased to know that "14<sup>th</sup> Exceed Environment, CSR & HR Award 2023" and Conference on "Beat the Plastic Pollution" has been supported by *Ministry of Environment, Forest & CC, going to organize in the August 2023 at Uttarakhand.*

*Representatives from Industries from various sectors, manufacturers of related waste material and recyclers; Officials from Government agencies, Pollution Control Boards, NGOs; Technocrats, Advisors and Policy Makers; Scientists, Researchers and Students will be invited.*

*Therefore, we request you to nominate some participants from your reputed organization from all projects and plants to attend the Conference on the Theme: "Beat the Plastic Pollution" to derive benefit for their professional Development.*

**We are offering special discount on group delegates which are as follows:**

- |                               |                               |
|-------------------------------|-------------------------------|
| 1. For 1 Delegate: Rs 6,000   | 4. For 4 Delegates: Rs.20,000 |
| 2. For 2 delegates: Rs.12,000 | 5. For 5 Delegates: Rs.25,000 |
| 3. For 3 Delegates: Rs.18,000 |                               |

*We are looking forward to your Support and Cooperation.*

*For further communications please feel free to contact Ms. Runa (8595348496/8595342606)*

*With best regards*

O P BABBAR

P B Rastogi

  
(Chairman)  
Sustainable Development Foundation  
(A unit of EK Kaam Desh Ke Naam)

  
(Conference Chairman)  
(Former Advisor- MOEF & CC)