



supra steels <suprasteels21@gmail.com>

Half Yearly EC Compliance Report of M/s. Supra Steels and Power Pvt. Ltd., - Reg.,

1 message

supra steels <suprasteels21@gmail.com>
To: rosz.bng-mefcc@gov.in

Thu, May 26, 2022 at 5:40 PM

Dear sir,

Please find the attached Half Yearly EC Compliance report of the above stated project from october 2021 to March 2022 as a part of six monthly compliance report submissions as stated in Environmental Clearance condition.

Regards,

M/s. Supra Steels and Power Pvt. Ltd.,

 [EC Compliance Submission.pdf](#)

**SIX MONTHLY COMPLIANCE REPORT
TO THE CONDITIONS STIPULATED IN THE
ENVIRONMENTAL CLEARANCE**

For the period

October 2021 to March 2022

Prepared for

“M/s. Supra Steel & Power Pvt. Ltd.,”

**Located at Sy. No. 276, Halkundi Village, Bellary
Taluk, Bellary District.**

A project by

**M/s. Supra Steel & Power Pvt. Ltd.,
Plot No.7, 4th Cross, Nanda School Road, Vidyanagar West,
Bellary-583104**

☎/✉ : +91 9448282360

Suprasteels@yahoo.com

Project details:

1.	Name of the Project	M/s. Supra Steel & Power Pvt. Ltd.,
2.	Clearance Letter No & Date	J-11011/701/2009-IA-II (I) dated 11.01.2013
3.	Location: District & State/UT	Located at Sy. No. 276, Halkundi Village, Bellary Taluk, Bellary District.
4.	Address for Correspondence:	M/s. Supra Steel & Power Pvt. Ltd., Plot No. 7, 4th Cross, Nanda School Road, Vidyanagar West, Bellary-583104
5.	Email address of the company, email address of any two responsible persons including the project head and website address.	Mr. Shashi Kumar Singh Director Mr. Ranganayakalu General Manager Suprasteels@yahoo.com
6.	Contact details of the responsible person of the project who is competent speak on behalf of the company and environmental aspects	Mr. Shashi Kumar Singh 9342003348 Mr. Ranganayakalu 9448282360

**Six Monthly Compliance Report to the conditions stipulated in the
Environmental Clearance for Sponge Iron Plant Located at Sy. No. 276,
Halkundi Village, Bellary taluk, Bellary District.
For the period October 2021 to March 2022**

**A project by
M/s. Supra Steel & Power Pvt. Ltd.,**

File No. : J-11011/701/2009-IA-II (I)
EC dated : 11.01.2013
Corrigendum Date : 14.06.2013
Project Title : Sponge Iron Manufacturing Plant of capacity 150 TPD

PART A - SPECIFIC CONDITIONS

Sl. No.	CONDITIONS	Compliance
1.	Compliance to all the specific and general conditions stipulated for the existing plant(s) by the central/state Govt. should be ensured and regular reports submitted to the Ministry and its Regional Office at Bangalore	Compliance to EC conditions is being regularly submitted to the Ministry and its Integrated Regional Office at Bangalore.
2.	Electrostatic Precipitator (ESP), dust catcher, bag filters etc. shall be provided to keep the emission level within 50 mg/Nm ³ and by installing energy efficient technology.	Bag Filter (2 Nos.) has been provided to ensure emission level within 50 mg/Nm³
3.	The National Ambient Air Quality Standards issued by the Ministry vide GSR No. 826(E) dated 16th November, 2009 should be followed.	Noted and is being followed.
4.	Secondary fugitive emissions from all sources shall be controlled within the latest permissible limit issued by the Ministry vide GSR 414(E) dated 30.05.2008 and regularly monitored. Guidelines/code of Practice issued by the CPCB shall be followed.	The emission standards issued by CPCB vide Notification No. GSR 414(E) dated 30.05.2008 is being followed and all the parameter are within the prescribed standards. The environmental monitoring reports are enclosed as Annexure IV.
5.	Hot gases from DRI Kiln shall be passed through Dust settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in electrostatic precipitator (ESP) before leaving out into the atmosphere through ID fan and stack. The water consumption shall not exceed as per prescribed standards for the steel plants.	Provision for Dust Settling Chamber and Bag Filter (2 Nos.) are connected with a stack height of 50 m along with ID fan.

6.	Total water requirement shall not exceed 264 m ³ /day. 'Zero' effluent discharge shall be strictly followed and no waste water shall be discharged outside the premises.	The total water consumption for the industry is 132 KLD. Air cooled condenser system has been provided to reduce fresh water consumption. The water recirculation system has been adopted to reduce fresh water demand ensuring Zero Liquid Discharge.
7.	Efforts shall be made to make use of rain water harvested. If needed, capacity of Provision for rain water harvesting has been made within the existing premises. Sl. No. Conditions Stipulated in the EC Compliance Status/Remarks the reservoir should be enhanced to meet the maximum water requirement should be met from other sources.	Provision for rainwater harvesting has been made within the existing premises.
8.	Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated waste water shall meet the norms prescribed by the State Pollution control board or described under the E (P) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the ministry's Regional Office at Bangalore, SPCB and CPCB	There is no wastewater generation from the process. The process water is recirculated back ensuring Zero Liquid Discharge. The sewage generated is treated in septic tank followed by soak pit.
9.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional office at Bangalore.	The fly ash generated is being sold to brick manufacturing industries.
10.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	CREP guidelines pertaining to Sponge Iron Plants such as installation of Bag filter, fugitive emission monitoring and water sprinkling are being followed.
11.	Measures should be taken to prevent impact of particulate emissions fugitive emissions, if any from the proposed plant on the surrounding reserved forests.	Stack height of 100 m is provided for main stack with ID fan to avoid emissions on surrounding reserved forests.
12.	Green belt shall be developed in 33% of plant area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO.	33% of Green Belt of the area has been developed.

13.	Risk and Disaster management Plant along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional office at Bangalore, CECB and CPCB within 3 months of issue of environmental clearance letter.	Noted.
14.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 29th December, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bangalore.	Noted and being complied in a progressive manner.
15.	At least 5% of the total cost of the project should be earmarked towards Enterprise Social Commitment and item wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	Item wise Fund allocation along with time bound action plan is prepared and same will be submitted to IRO, MOEF&CC, Bangalore.
16.	The company shall provide housing for construction labour within the site with all necessary infrastructures and facilities such as fuel for cooking mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted & followed.

PART B: GENERAL CONDITION

Sl. No.	CONDITIONS	COMPLIANCE
1.	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.	Agreed. The industry has obtained Consent for Operation (CFO) from Karnataka State Pollution Control Board vide letter No. AW-303605, dtd: 06/09/2017 and all conditions Stipulated in CFO are complied with.
2.	No further expansion/modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed, industry will obtain prior approval in case of any further expansion/modification is taking place.
3.	The gaseous emissions from various process units shall conform to the load / mass-based standards notified by this Ministry on 19th	Noted.

	may, 1993 and standards prescribed from time to time. The state Board may specify more stringent standards for the relevant parameters keeping in view the nature of industry and its size and location.	
4.	At least four ambient air quality monitoring stations should be established in the downwind direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated with consultation with SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its regional Office at Bangalore and the SPCB once in six months.	AAQ monitoring stations are selected, as per the advice of Regional Office. AAQM is being carried out & reports are attached as Annexure-1V.
5.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422€ dated 19h May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	As such there is no process wastewater generation, water requirement is only for cooling purpose & same is kept in recirculation for cooling.
6.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment Act rules, 1989 viz. 75 dBA (Day time) and 70 dB(A) (night time).	Noted and acoustic enclosures for DG sets have been provided.
7.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Noted and regular health check-up is being carried out for all employees.
8.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	The company has constructed rainwater collection pond and also ground water recharge structures.
9.	The project proponent shall also comply with all the environment protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socioeconomic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Accepted and the local community requirements are being identified and accordingly the requisite programs are developed and implemented in consultation with the village level administration.

10.	Requisite amount shall be earmarked towards capital cost and recurring cost / annum for environmental pollution control measures to implement conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Integrated Regional Office of the Ministry at Bangalore. The funds so provided shall not be diverted for any other purpose.	Being complied, in a progressive manner.
11.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila panchayat/Municipal Corporation, Urban Local Body and the local NGO, if any from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Agreed.
12.	The project proponent shall, upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bangalore. The respective zonal Office of CPCB and the SPCB. The criteria pollutant levels namely PM10, SO2, NOX (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Noted and agreed.
13.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. The Regional Office of this Ministry at Bangalore / CPCB / SPCB shall monitor the stipulated conditions.	Agreed, six monthly compliance report is being submitted to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB.
14.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the	Agreed.

	concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Offices of MoEF &CC by e-mail.	
15.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Agreed and paper advertisement is enclosed as Annexure-III.
16.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Agreed.
17.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
18.	The ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed.
19.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (prevention and Control of Pollution) The Environmental Protection Act. 1986. Hazardous Wastes (Management, and Handling transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Agreed.
20.	These issues with the prior approval of the Competent Authority.	Agreed.

Annexure-I

Sprinklers



Green Belt



PHOTOGRAPHS

PHOTOGRAPHS OF SPONGE IRON MANUFACTURING UNIT



DG set



Annexure-II

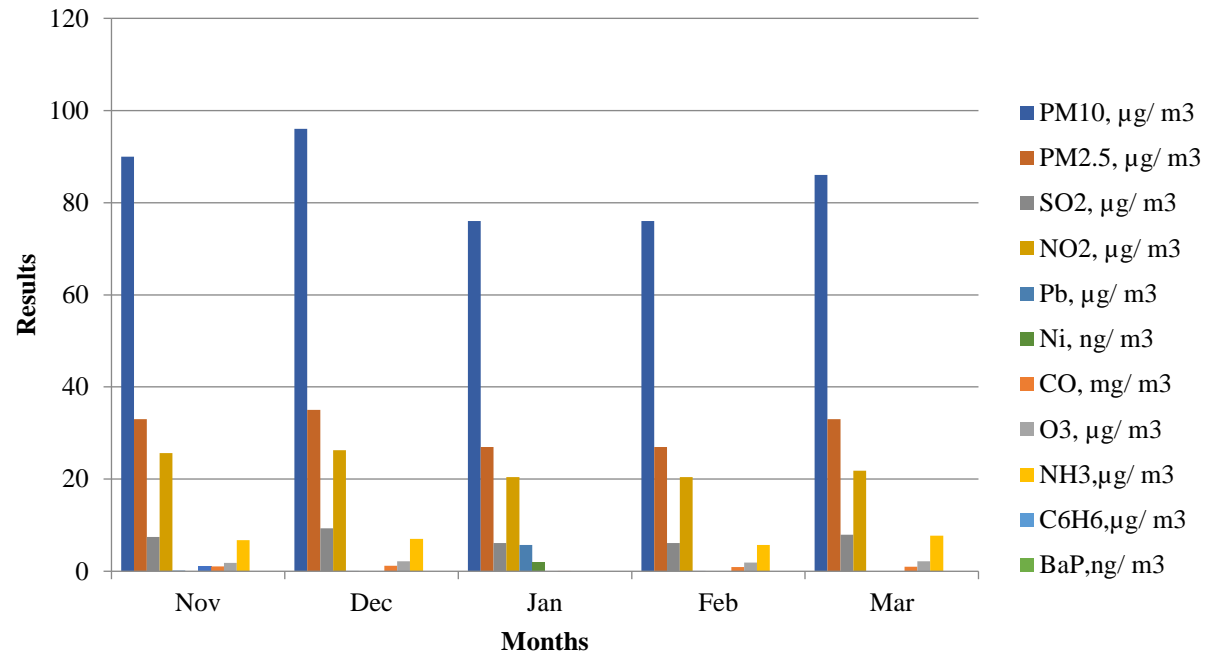
Summary of Air Quality Analysis Report by M/s Supra Steel & Power Pvt.Ltd. –

Industry Premises (Near Main Gate), November 2021 to March 2022

Sl. No.	Parameters						NAAQ Standards
		Nov	Dec	Jan	Feb	Mar	
1	PM ₁₀ , µg/ m ³	90	96	76	76	86	100
	PM _{2.5} , µg/ m ³	33	35	27	27	33	60
	SO ₂ , µg/ m ³	7.47	9.32	6.16	6.16	7.93	80
	NO ₂ , µg/ m ³	25.63	26.24	20.45	20.45	21.83	80
	Pb, µg/ m ³	0.126	0.014	5.69	0.014	BDL	1.0 (24 hr Average)
	As, ng/ m ³	BDL	BDL	0.91	BDL	BDL	6.0 (Annual Average)
	Ni, ng/ m ³	BDL	BDL	1.88	BDL	BDL	20.0 (Annual Average)
	CO, mg/ m ³	1.04	1.21	0.014	0.91	0.96	4.0 (1 hr Average)
	O ₃ , µg/ m ³	1.85	2.19	BDL	1.88	2.18	180 (1 hr Average)
	NH ₃ ,µg/ m ³	6.72	7.04	BDL	5.69	7.71	400.0 (24 hr Average)
	C ₆ H ₆ ,µg/ m ³	BDL	BDL	BDL	BDL	BDL	5.0 (Annual Average)
	BaP,ng/ m ³	BDL	BDL	BDL	BDL	BDL	1.0 (Annual Average)

As per the above analysis data, the average PM₁₀, PM_{2.5}, SO₂ and NO₂ values are well within the NAAQ standards

Industry Premises (Near Main Gate)



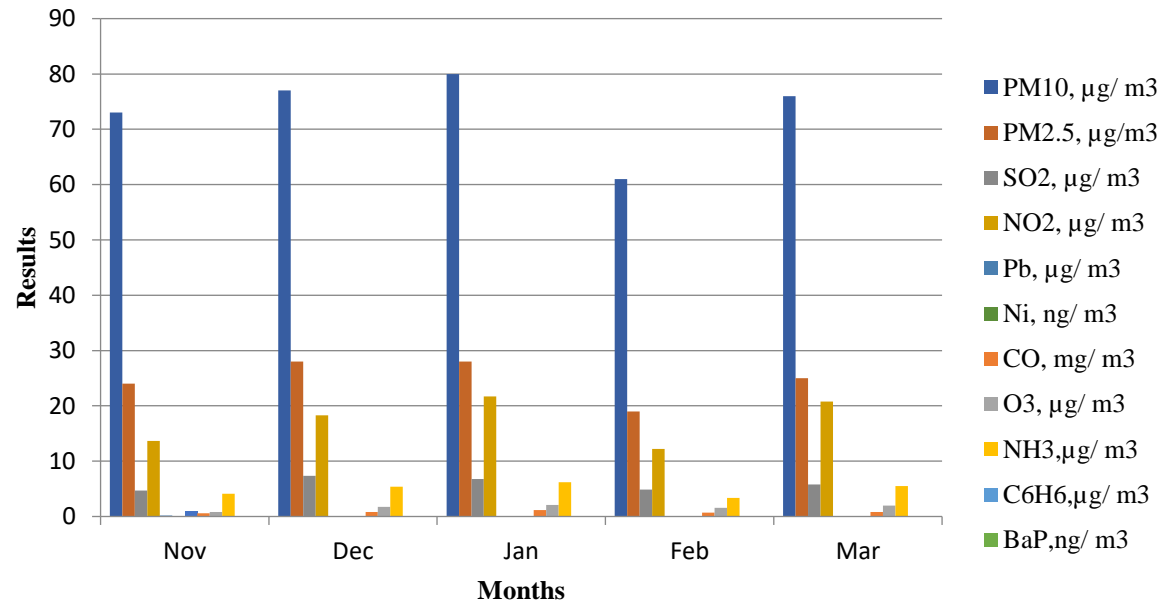
Summary of Air Quality Analysis Report by M/s Supra Steel & Power Pvt.Ltd. –

Industry Premises (Near DG Room), November 2021 to March 2022

Sl. No.	Parameters						NAAQ Standards
		Nov	Dec	Jan	Feb	Mar	
2	PM ₁₀ , µg/ m ³	73	77	80	61	76	100
	PM _{2.5} , µg/m ³	24	28	28	19	25	60
	SO ₂ , µg/ m ³	4.68	7.37	6.75	4.86	5.78	80
	NO ₂ , µg/ m ³	13.67	18.31	21.71	12.21	20.78	80
	Pb, µg/ m ³	0.149	0.051	0.01	0.009	0.012	1.0 (24 hr Average)
	As, ng/ m ³	BDL	BDL	BDL	BDL	BDL	6.0 (Annual Average)
	Ni, ng/ m ³	BDL	BDL	BDL	BDL	BDL	20.0 (Annual Average)
	CO, mg/ m ³	0.56	0.84	1.18	0.69	0.84	4.0 (1 hr Average)
	O ₃ , µg/ m ³	0.84	1.72	2.11	1.57	1.95	180 (1 hr Average)
	NH ₃ ,µg/ m ³	4.09	5.4	6.18	3.36	5.52	400.0 (24 hr Average)
	C ₆ H ₆ ,µg/ m ³	BDL	BDL	BDL	BDL	BDL	5.0 (Annual Average)
	BaP,ng/ m ³	BDL	BDL	BDL	BDL	BDL	1.0 (Annual Average)

As per the above analysis data, the average PM₁₀, PM_{2.5}, SO₂ and NO₂ values are well within the NAAQ standards,

Industry Premises (Near DG Room)



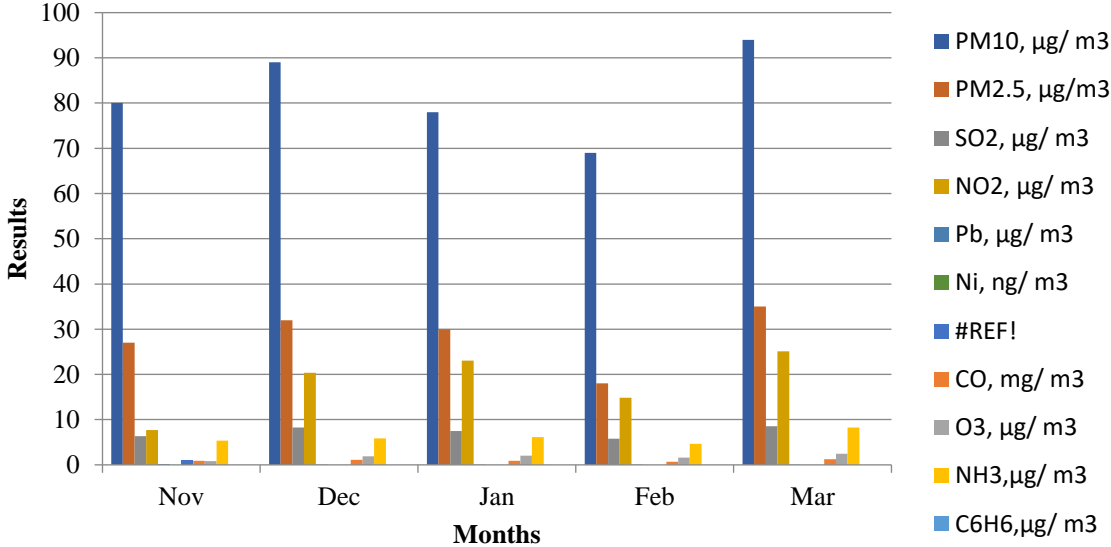
Summary of Air Quality Analysis Report by M/s Supra Steel & Power Pvt.Ltd. –

Industry Premises (Near Processing Room & Cooling Discharge), November 2021 to March 2022

Sl. No.	Parameters						NAAQ Standards
		Nov	Dec	Jan	Feb	Mar	
3	PM ₁₀ , µg/ m ³	80	89	78	69	94	100
	PM _{2.5} , µg/m ³	27	32	30	18	35	60
	SO ₂ , µg/ m ³	6.32	8.26	7.48	5.8	8.52	80
	NO ₂ , µg/ m ³	7.7	20.38	23.07	14.86	25.1	80
	Pb, µg/ m ³	0.158	0.063	0.012	0.017	0.021	1.0 (24 hr Average)
	As, ng/ m ³	BDL	BDL	BDL	BDL	BDL	6.0 (Annual Average)
	Ni, ng/ m ³	BDL	BDL	BDL	BDL	BDL	20.0 (Annual Average)
	CO, mg/ m ³	0.91	1.1	0.91	0.72	1.24	4.0 (1 hr Average)
	O ₃ , µg/ m ³	0.84	1.86	2.04	1.61	2.46	180 (1 hr Average)
	NH ₃ ,µg/ m ³	5.37	5.88	6.15	4.62	8.24	400.0 (24 hr Average)
	C ₆ H ₆ ,µg/ m ³	BDL	BDL	BDL	BDL	BDL	5.0 (Annual Average)
BaP,ng/ m ³	BDL	BDL	BDL	BDL	BDL	1.0 (Annual Average)	

As per the above analysis data, the average PM₁₀, PM_{2.5}, SO₂ and NO₂ values are well within the NAAQ standards,

Industry Premises (Near Processing Room & Cooling Discharge)

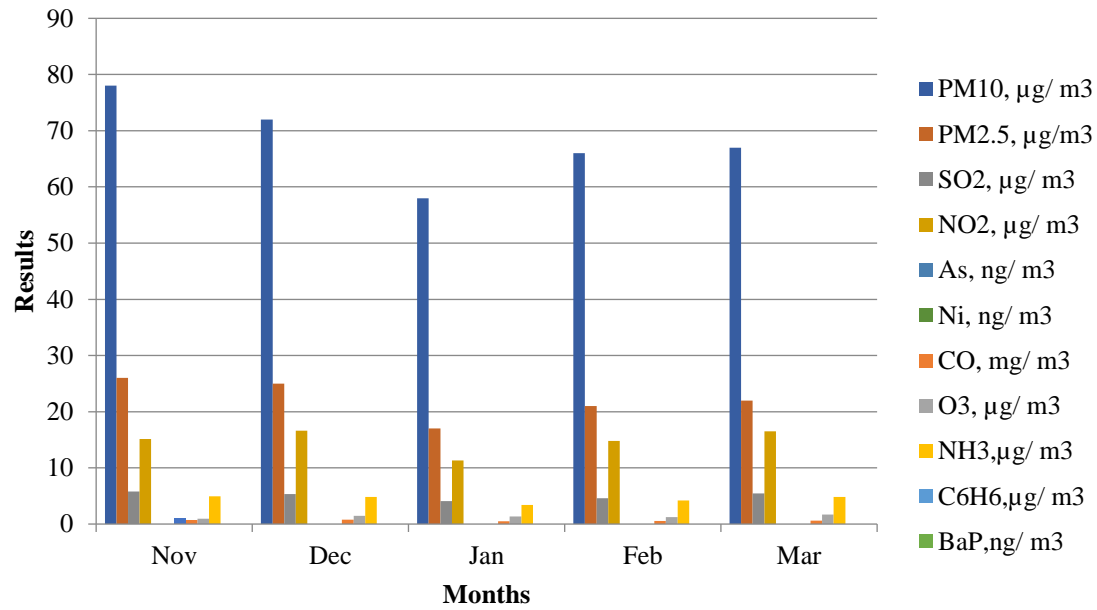


**Summary of Air Quality Analysis Report by M/s Supra Steel & Power Pvt.Ltd. –
Industry Premises(Near Iron and Coal screening), November 2021 to March 2022**

Sl. No.	Parameters						NAAQ Standards
		Nov	Dec	Jan	Feb	Mar	
4	PM ₁₀ , µg/ m ³	78	72	58	66	67	100
	PM _{2.5} , µg/m ³	26	25	17	21	22	60
	SO ₂ , µg/ m ³	5.79	5.32	4.08	4.61	5.44	80
	NO ₂ , µg/ m ³	15.13	16.6	11.31	14.81	16.51	80
	Pb, µg/ m ³	0.231	0.03	0.01	0.007	0.024	1.0 (24 hr Average)
	As, ng/ m ³	BDL	BDL	BDL	BDL	BDL	6.0 (Annual Average)
	Ni, ng/ m ³	BDL	BDL	BDL	BDL	BDL	20.0 (Annual Average)
	CO, mg/ m ³	0.75	0.79	0.51	0.57	0.62	4.0 (1 hr Average)
	O ₃ , µg/ m ³	0.97	1.46	1.36	1.24	1.7	180 (1 hr Average)
	NH ₃ ,µg/ m ³	4.93	4.81	3.42	4.19	4.82	400.0 (24 hr Average)
	C ₆ H ₆ ,µg/ m ³	BDL	BDL	BDL	BDL	BDL	5.0 (Annual Average)
	BaP,ng/ m ³	BDL	BDL	BDL	BDL	BDL	1.0 (Annual Average)

As per the above analysis data, the average PM₁₀, PM_{2.5}, SO₂ and NO₂ values are well within the NAAQ standards,

Industry Premises (Near Iron and Coal)



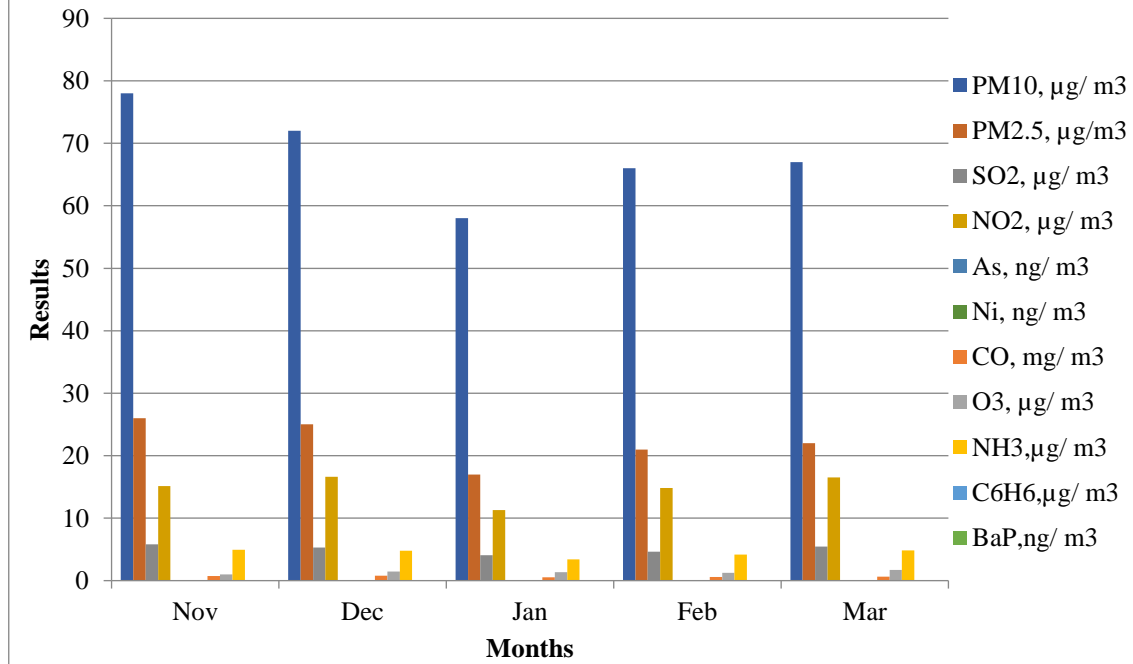
Summary of Air Quality Analysis Report by M/s Supra Steel & Power Pvt.Ltd. –

Industry Premises (Near Weigh Bridge), November 2021 to March 2022

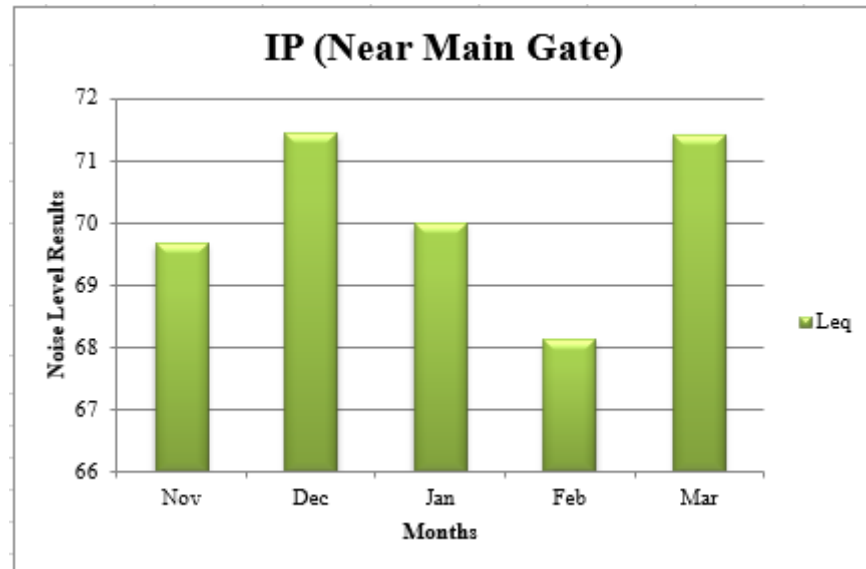
Sl. No.	Parameters						NAAQ Standards
		Nov	Dec	Jan	Feb	Mar	
5	PM ₁₀ , µg/ m ³	85	67	71	88	63	100
	PM _{2.5} , µg/m ³	29	20	23	35	19	60
	SO ₂ , µg/ m ³	7.05	4.47	6.11	8.34	4.5	80
	NO ₂ , µg/ m ³	20.87	13.91	18.43	25.56	14.7	80
	Pb, µg/ m ³	0.075	BDL	BDL	BDL	BDL	1.0 (24 hr Average)
	As, ng/ m ³	BDL	BDL	BDL	BDL	BDL	6.0 (Annual Average)
	Ni, ng/ m ³	BDL	2.75	BDL	2.82	BDL	20.0 (Annual Average)
	CO, mg/ m ³	0.97	0.47	0.83	1.05	0.53	4.0 (1 hr Average)
	O ₃ , µg/ m ³	1.48	0.85	1.85	2.16	1.51	180 (1 hr Average)
	NH ₃ ,µg/ m ³	6.03	3.93	5.35	7.02	4.26	400.0 (24 hr Average)
	C ₆ H ₆ ,µg/ m ³	BDL	BDL	BDL	BDL	BDL	5.0 (Annual Average)
	BaP,ng/ m ³	BDL	BDL	BDL	BDL	BDL	1.0 (Annual Average)

As per the above analysis data, the average PM₁₀, PM_{2.5}, SO₂ and NO₂ values are well within the NAAQ standards,

Industry Premises (Near Weigh Bridge)

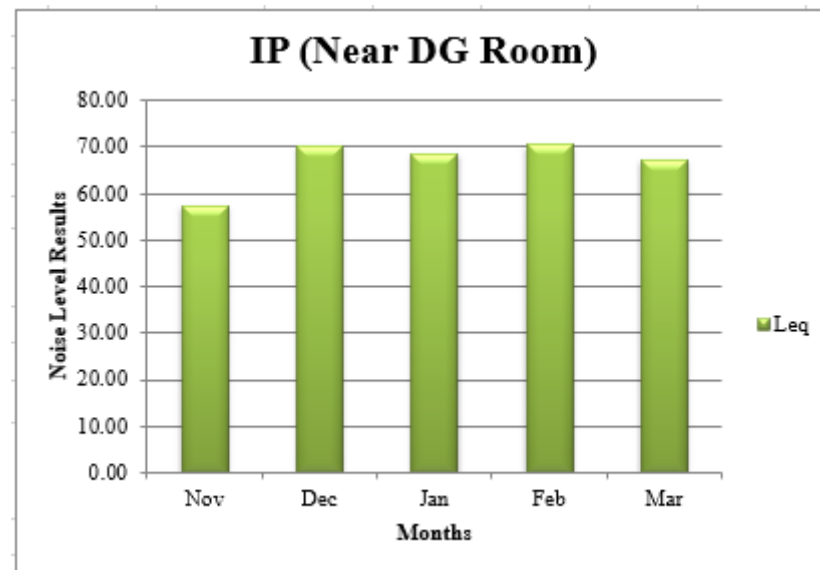


Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near Main Gate), April 2021 to September 2022							
Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
1	L _{eq}	75.0 dB(A)	69.66	71.43	69.98	68.11	71.41
L _{eq} noise levels over the above period have been calculated for daytime (6 AM-10 PM) it was observed that the average L _{eq} value are within the CPCB Standards.							
Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.							



**Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near DG Room),
April 2021 to September 2022**

Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
2	L _{eq}	75.0 dB(A)	57.44	70.19	68.56	70.57	67.17
<p>L_{eq} noise levels over the above period have been calculated for daytime (6 AM-10 PM) it was observed that the average L_{eq} value are within the CPCB Standards.</p>							
<p>Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.</p>							

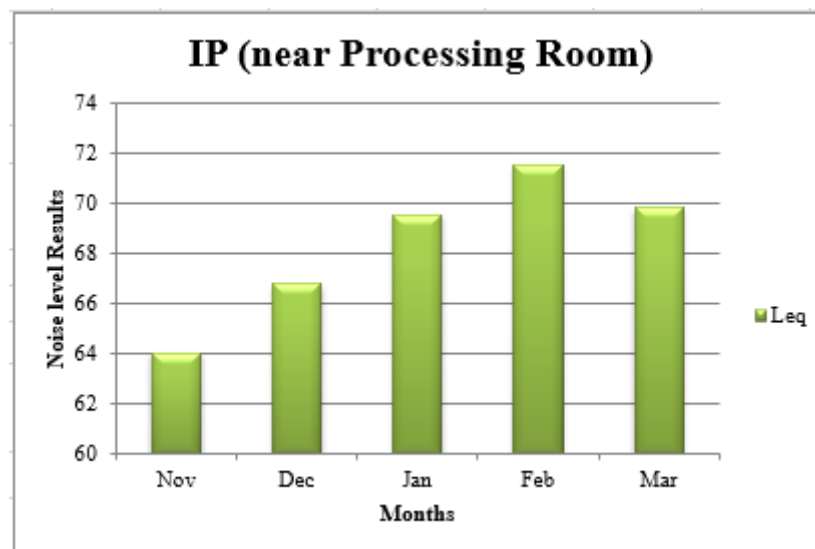


Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (near Processing Room), April 2021 to September 2022

Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
3	L _{eq}	75.0 dB(A)	64.03	66.77	69.55	71.55	69.83

L_{eq} noise levels over the above period have been calculated for daytime (6 AM-10 PM) it was observed that the average L_{eq} value are within the CPCB Standards.

Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.

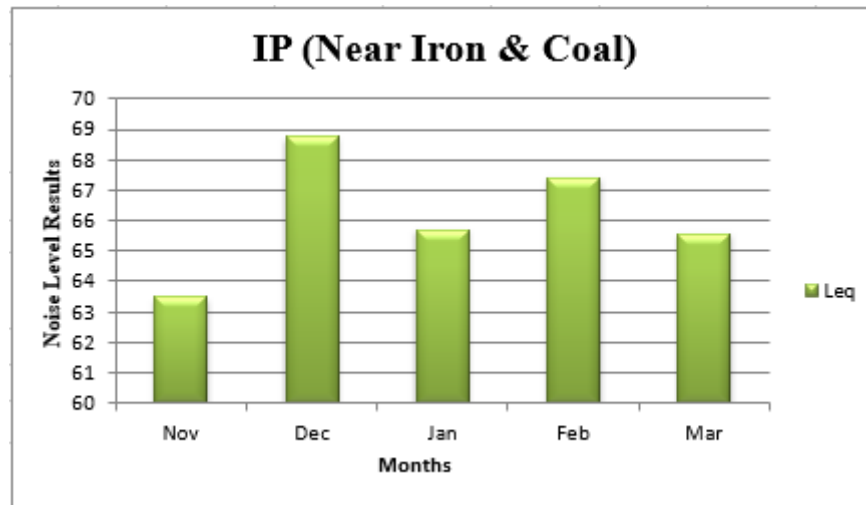


**Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near Iron & Coal),
April 2021 to September 2022**

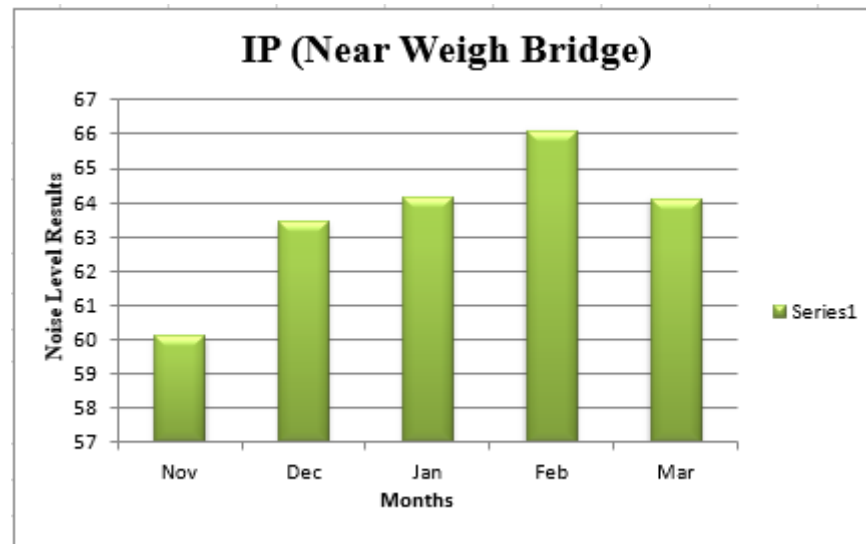
Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
4	L _{eq}	75.0 dB(A)	63.5	68.75	65.70	67.40	65.56

L_{eq} noise levels over the above period have been calculated for daytime (6 AM-10 PM) it was observed that the average L_{eq} value are within the CPCB Standards.

Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.

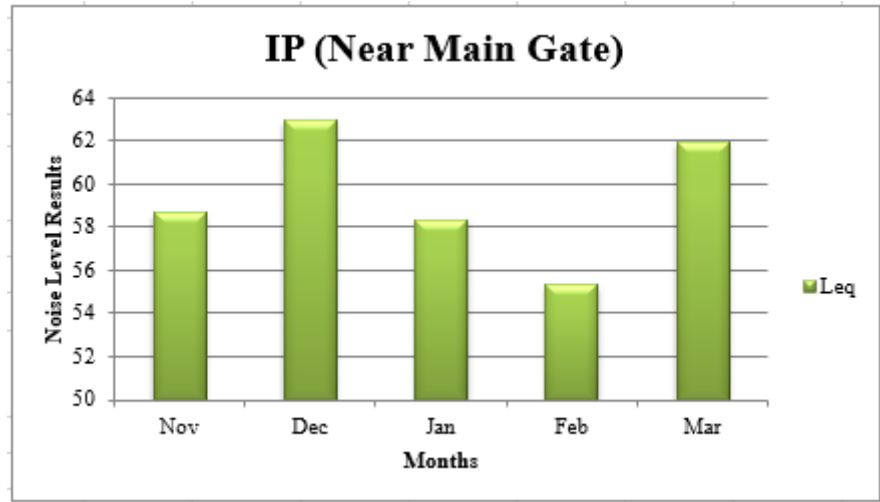


Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near Weigh Bridge), April 2021 to September 2022							
Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
5	L_{eq}	75.0 dB(A)	60.11	63.45	64.15	66.10	64.12
<p>L_{eq} noise levels over the above period have been calculated for daytime (6 AM-10 PM) it was observed that the average L_{eq} value are within the CPCB Standards.</p> <p>Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.</p>							



**Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near Main Gate),
April 2021 to September 2022**

Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
6	L _{eq}	70.0 dB(A)	58.67	62.96	58.36	55.33	61.94
<p>L_{eq} noise levels over the above period have been calculated for Night Time (10:01 PM-6:00 PM) it was observed that the average L_{eq} value are within the CPCB Standards.</p>							
<p>Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.</p>							

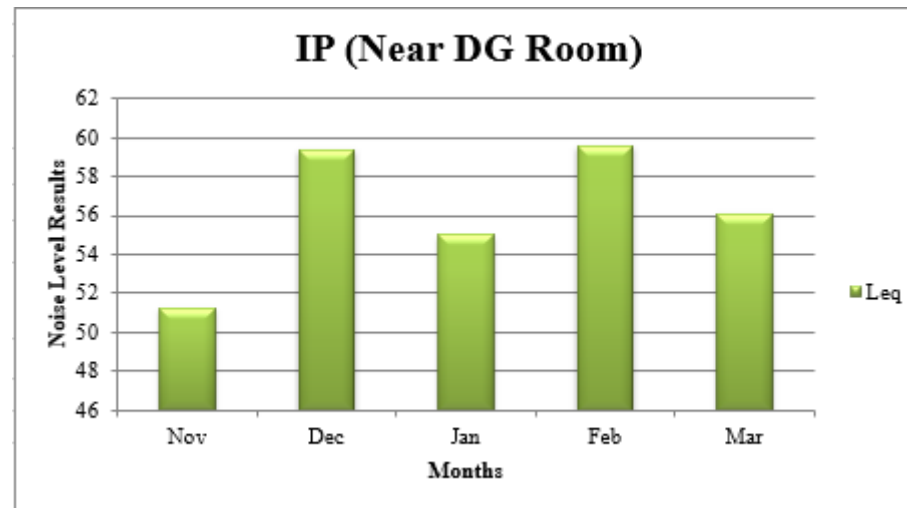


**Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near DG Room),
April 2021 to September 2022**

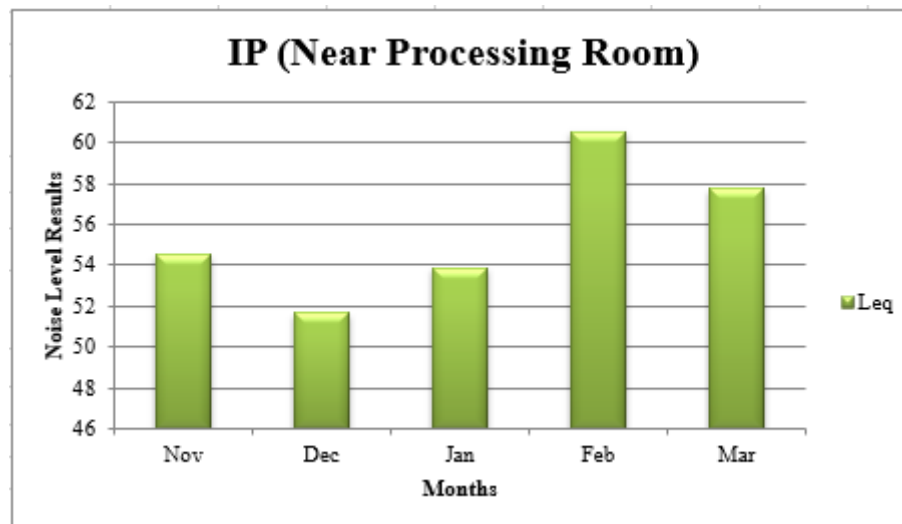
Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
7	L _{eq}	70.0 dB(A)	51.25	59.37	55.01	59.56	56.08

L_{eq} noise levels over the above period have been calculated for Night Time (10:01 PM-6:00 PM) it was observed that the average L_{eq} value are within the CPCB Standards.

Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.

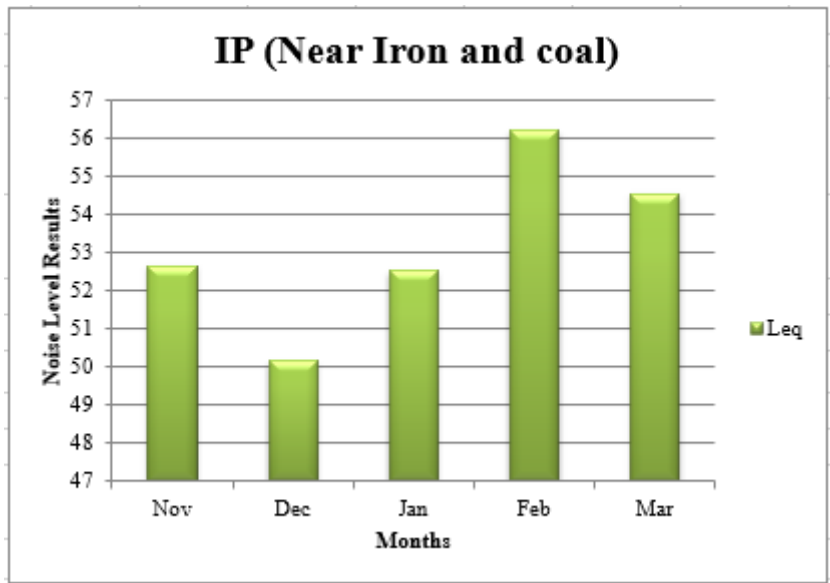


Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near Processing Room), April 2021 to September 2022							
Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
8	L _{eq}	70.0 dB(A)	54.49	51.67	53.88	60.57	57.75
L _{eq} noise levels over the above period have been calculated for Night Time (10:01 PM-6:00 PM) it was observed that the average L _{eq} value are within the CPCB Standards.							
Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.							

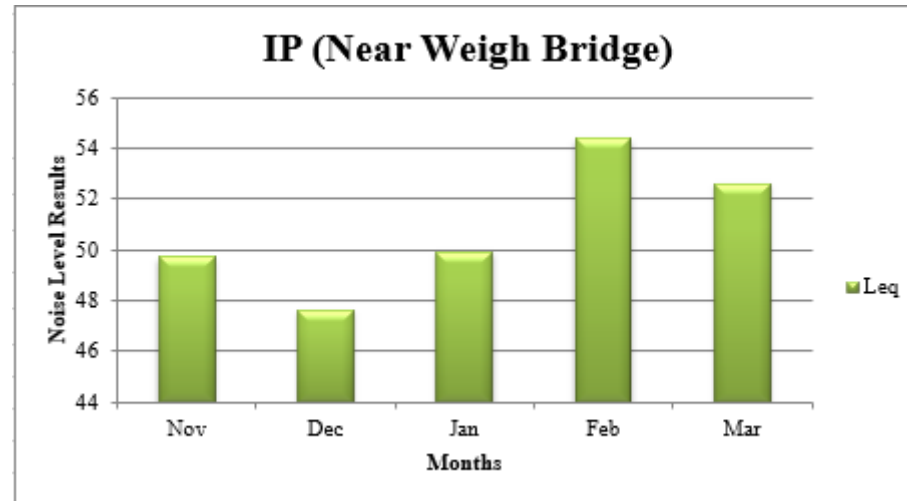


Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near Iron & Coal), April 2021 to September 2022

Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
9	L _{eq}	70.0 dB(A)	52.66	50.15	52.51	56.2	54.54
L _{eq} noise levels over the above period have been calculated for Night Time (10:01 PM-6:00 PM) it was observed that the average L _{eq} value are within the CPCB Standards.							
Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.							



Summary of Noise Level Monitoring Report by M/s Supra Steel & Power pvt.Ltd. – IP (Near Weigh Bridge), April 2021 to September 2022							
Sl. No.	Noise Levels in dB (A)	CPCB Standards in respect of Noise	Months				
			Nov	Dec	Jan	Feb	Mar
10	L _{eq}	70.0 dB(A)	49.73	47.62	49.93	54.38	52.6
L _{eq} noise levels over the above period have been calculated for Night Time (10:01 PM-6:00 PM) it was observed that the average L _{eq} value are within the CPCB Standards.							
Mitigation Measures: Development of Greenbelt/Landscape to reduce impact.							



Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Rotary Kiln 50 & 100 TPD

Date of Monitoring	20.11.2021
Ambient Temperature(°C)	26
Stack temperature (°C)	38
Velocity(m/s)	6.63
Diameter (m)	2.7
Cross sectional area in meter square (m2)	5.723
Quantity of flue gas discharge into atmosphere (Nm3/h)	131344.24
Dust emission rate (kg/hr)	3.350

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm3	25.51	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Rotary Kiln 50 TPD

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	27
Stack temperature (°C)	139
Velocity(m/s)	7.89
Diameter (m)	1.2
Cross sectional area in meter square (m2)	1.130
Quantity of flue gas discharge into atmosphere (Nm3/h)	23370.83
Dust emission rate (kg/hr)	2.131

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	91.18	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	13	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	8.87	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Cooler Discharge

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	25
Stack temperature (°C)	46
Velocity(m/s)	6.25
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3343.61
Dust emission rate (kg/hr)	0.301

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	90.01	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	11.36	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	9.66	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Cooler Discharge

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	25
Stack temperature (°C)	46
Velocity(m/s)	6.25
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3343.61
Dust emission rate (kg/hr)	0.301

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	90.01	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	11.36	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	9.66	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Iron ore crushing & Screening

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	24
Stack temperature (°C)	38
Velocity(m/s)	6.11
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3339.31
Dust emission rate (kg/hr)	0.308

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	92.22	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	11.97	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	10.11	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Product house

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	25
Stack temperature (°C)	51
Velocity(m/s)	6.67
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3511.32
Dust emission rate (kg/hr)	0.386

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	110.07	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	21.57	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	16.91	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 400 KVA

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	27
Stack temperature (°C)	142
Velocity(m/s)	7.75
Diameter (m)	0.1
Cross sectional area in meter square (m2)	0.008
Quantity of flue gas discharge into atmosphere (Nm3/h)	158.32
Dust emission rate (kg/hr)	0.016

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	100.96	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	14.90	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	10.81	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 600 KVA

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	28
Stack temperature (°C)	152
Velocity(m/s)	8.04
Diameter (m)	0.15
Cross sectional area in meter square (m2)	0.018
Quantity of flue gas discharge into atmosphere (Nm3/h)	362.06
Dust emission rate (kg/hr)	0.038

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	104.23	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	15.48	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	11.50	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Intermediate Bin

Date of Monitoring	13.12.2021
Ambient Temperature(°C)	25
Stack temperature (°C)	44
Velocity(m/s)	6.36
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3418
Dust emission rate (kg/hr)	0.349

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	101.99	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	12.78	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	10.63	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Cooler Discharge

Date of Monitoring	24.01.2022
Ambient Temperature(°C)	25
Stack temperature (°C)	46
Velocity(m/s)	6.23
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3328.51
Dust emission rate (kg/hr)	0.190

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	57.22	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	16.48	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	12.07	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Iron Ore Crushing & Screening

Date of Monitoring	24.01.2022
Ambient Temperature(°C)	24
Stack temperature (°C)	43
Velocity(m/s)	6.13
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3297.51
Dust emission rate (kg/hr)	0.155

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	47.10	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	15.22	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	8.56	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Product House

Date of Monitoring	24.01.2022
Ambient Temperature(°C)	24
Stack temperature (°C)	40
Velocity(m/s)	6.04
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3277.18
Dust emission rate (kg/hr)	0.165

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	50.29	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	18.82	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	13.98	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 400 KVA

Date of Monitoring	24.01.2022
Ambient Temperature(°C)	25
Stack temperature (°C)	144
Velocity(m/s)	7.39
Diameter (m)	0.1
Cross sectional area in meter square (m2)	0.008
Quantity of flue gas discharge into atmosphere (Nm3/h)	149.32
Dust emission rate (kg/hr)	0.010

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	68.36	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	20.87	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	14.53	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 600 KVA

Date of Monitoring	24.01.2022
Ambient Temperature(°C)	27
Stack temperature (°C)	148
Velocity(m/s)	7.93
Diameter (m)	0.15
Cross sectional area in meter square (m2)	0.018
Quantity of flue gas discharge into atmosphere (Nm3/h)	359.48
Dust emission rate (kg/hr)	0.023

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	62.68	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	24.17	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	15.98	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Intermediate Bin

Date of Monitoring	24.01.2022
Ambient Temperature(°C)	24
Stack temperature (°C)	39
Velocity(m/s)	5.83
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3176.85
Dust emission rate (kg/hr)	0.176

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	55.4	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	15.97	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	12.07	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Cooler Discharge

Date of Monitoring	24.02.2022
Ambient Temperature(°C)	26
Stack temperature (°C)	147
Velocity(m/s)	7.52
Diameter (m)	1.2
Cross sectional area in meter square (m2)	1.130
Quantity of flue gas discharge into atmosphere (Nm3/h)	21797.0
Dust emission rate (kg/hr)	0.835

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	38.33	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	15.18	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	10.19	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Iron Ore Crushing & Screening

Date of Monitoring	13.02.2022
Ambient Temperature(°C)	32
Stack temperature (°C)	62
Velocity(m/s)	6.94
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3613.95
Dust emission rate (kg/hr)	0.175

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	48.39	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	14.93	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	9.17	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Product House

Date of Monitoring	13.02.2022
Ambient Temperature(°C)	32
Stack temperature (°C)	49
Velocity(m/s)	6.80
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3686.18
Dust emission rate (kg/hr)	0.167

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	45.17	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	16.92	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	12.14	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 400 KVA

Date of Monitoring	13.02.2022
Ambient Temperature(°C)	32
Stack temperature (°C)	158
Velocity(m/s)	8.03
Diameter (m)	0.1
Cross sectional area in meter square (m2)	0.008
Quantity of flue gas discharge into atmosphere (Nm3/h)	160.54
Dust emission rate (kg/hr)	0.010

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	60.69	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	17.21	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	13.40	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 600 KVA

Date of Monitoring	13.02.2022
Ambient Temperature(°C)	32
Stack temperature (°C)	157
Velocity(m/s)	7.79
Diameter (m)	0.15
Cross sectional area in meter square (m2)	0.018
Quantity of flue gas discharge into atmosphere (Nm3/h)	351.23
Dust emission rate (kg/hr)	0.021

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	58.51	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	21.56	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	12.87	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Intermediate Bin

Date of Monitoring	13.02.2022
Ambient Temperature(°C)	32
Stack temperature (°C)	56
Velocity(m/s)	6.75
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3580.70
Dust emission rate (kg/hr)	0.195

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	54.37	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	13.48	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	10.88	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Rotary Kiln 50 TPD

Date of Monitoring	13.02.2022
Ambient Temperature(°C)	32
Stack temperature (°C)	158
Velocity(m/s)	8.16
Diameter (m)	1.2
Cross sectional area in meter square (m2)	1.130
Quantity of flue gas discharge into atmosphere (Nm3/h)	23512.32
Dust emission rate (kg/hr)	1.087

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	46.24	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	19.12	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	12.34	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Cooler Discharge

Date of Monitoring	20.03.2022
Ambient Temperature(°C)	26
Stack temperature (°C)	36
Velocity(m/s)	5.99
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3315.25
Dust emission rate (kg/hr)	0.152

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	45.73	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	16.44	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	11.11	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Iron Ore Crushing & Screening

Date of Monitoring	20.03.2022
Ambient Temperature(°C)	25
Stack temperature (°C)	37
Velocity(m/s)	5.87
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3227.99
Dust emission rate (kg/hr)	0.108

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	33.47	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	11.19	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	8.37	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Product House

Date of Monitoring	20.03.2022
Ambient Temperature(°C)	26
Stack temperature (°C)	41
Velocity(m/s)	5.87
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3256.34
Dust emission rate (kg/hr)	0.133

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	40.83	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	13.70	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	10.41	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 400 KVA

Date of Monitoring	20.03.2022
Ambient Temperature(°C)	28
Stack temperature (°C)	133
Velocity(m/s)	7.55
Diameter (m)	0.1
Cross sectional area in meter square (m2)	0.008
Quantity of flue gas discharge into atmosphere (Nm3/h)	158.10
Dust emission rate (kg/hr)	0.007

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	46.56	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	18.33	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	12.67	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : DG set 600 KVA

Date of Monitoring	20.03.2022
Ambient Temperature(°C)	28
Stack temperature (°C)	144
Velocity(m/s)	8.05
Diameter (m)	0.15
Cross sectional area in meter square (m2)	0.018
Quantity of flue gas discharge into atmosphere (Nm3/h)	369.50
Dust emission rate (kg/hr)	0.018

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	49.33	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	19.38	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	10.92	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Intermediate Bin

Date of Monitoring	20.03.2022
Ambient Temperature(°C)	26
Stack temperature (°C)	40
Velocity(m/s)	6.29
Diameter (m)	0.45
Cross sectional area in meter square (m2)	0.159
Quantity of flue gas discharge into atmosphere (Nm3/h)	3436.25
Dust emission rate (kg/hr)	0.190

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	55.41	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	20.38	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	14.50	NS

NS – Not specified

Analysis report For Source Emissions

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Stack Id : Rotary Kiln 50 TPD

Date of Monitoring	20.03.2022
Ambient Temperature(°C)	29
Stack temperature (°C)	161
Velocity(m/s)	8.27
Diameter (m)	1.2
Cross sectional area in meter square (m2)	1.130
Quantity of flue gas discharge into atmosphere (Nm3/h)	2342.60
Dust emission rate (kg/hr)	0.868

Results

Parameter	Protocol	Unit	Results	Tolerance limit
Particulate matter	IS: 11255, part 1	mg/Nm ³	37.06	NS
Oxides of nitrogen as NO ₂	IS: 11255, part 7	mg/Nm ³	12.28	NS
Sulphur dioxide	IS: 11255, part 2	mg/Nm ³	9.58	NS

NS – Not specified

Analysis report For Work Zone Air Quality

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Raw Material Handling Area
3. Date of Monitoring :13.12.2021

Results

Sl.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 07:40am- 07.40am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m3	0.166	OSHA Method 0600	5 mg/m3

NS- Not Specified

Analysis report For Work Zone Air Quality

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station: Cooler Discharge Area
3. Date of Monitoring :13.12.2021

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:00am- 08:00am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m ³	0.155	OSHA Method 0600	5 mg/m ³

NS- Not Specified

Analysis report For Work Zone Air Quality

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Near Crusher Area
3. Date of Monitoring :13.12.2021

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 07:50am- 07:50am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m ³	0.1760	OSHA Method 0600	5 mg/m ³

NS- Not Specified

Analysis report For Work Zone Air Quality

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station: Product Processing Area
3. Date of Monitoring :13.12.2021

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:10am- 08:10am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m ³	0.052	OSHA Method 0600	5 mg/m ³

NS- Not Specified

Analysis report For Work Zone Air Quality

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station: Raw Material Handling Area
3. Date of Monitoring :20.03.2022

Results

Sl.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 07:42am- 07:42am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m ³	0.284	IS: 5182 (P23)	NS

NS- Not Specified

Analysis report For Work Zone Air Quality

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station: Cooler Discharge
3. Date of Monitoring :20.03.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:00am - 08:00am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m ³	0.389	IS: 5182 (P23)	NS

NS- Not Specified

Analysis report For Work Zone Air Quality

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station: New Crusher Area
3. Date of Monitoring :20.03.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:00am - 08:00am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m ³	0.541	IS: 5182 (P23)	NS

NS- Not Specified

Analysis report For Work Zone Air Quality

1. Name of the industry: M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station: Product Processing Area
3. Date of Monitoring :20.03.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:10am - 08:10am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter)	mg/m ³	0.247	IS: 5182 (P23)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

4. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
5. Name of the Station : Raw Material Handling Area
6. Date of Monitoring :24.01.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 09:30am- 09:30am	--	--
1.	Dust Concentration	mg/m ³	0.190	IS:5182 (P2)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Cooler Discharge Area
3. Date of Monitoring :24.01.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 09:50am- 09:50am	--	--
1.	Dust Concentration	mg/m ³	0.202	IS:5182 (P2)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Near Crusher Area
3. Date of Monitoring :24.01.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 09:40am- 09:40am	--	--
1.	Dust Concentration	mg/m ³	0.307	IS:5182 (P2)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Product Processing Area
3. Date of Monitoring :24.01.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 10:00am- 10:00am	--	--
1.	Dust Concentration	mg/m ³	0.139	IS:5182 (P2)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Raw material Handling Area
3. Date of Monitoring :13.02.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:25 am- 08:25 am	--	--
1.	Dust Concentration	mg/m ³	0.243	IS:5182 (P2)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Cooler Discharge Area
3. Date of Monitoring :13.02.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:45am- 08:45am	--	--
1.	Dust Concentration	mg/m ³	0.351	IS:5182 (P2)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Near Crusher Area
3. Date of Monitoring :13.02.2022

Results

SI.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:35 am- 08:35 am	--	--
1.	Dust Concentration	mg/m ³	0.493	IS:5182 (P2)	NS

NS- Not Specified

Analysis report For Fugitive Emission Monitoring

1. Name of the industry : M/s Supra Steel & Power Pvt. Ltd,
Sy. No.276 & 280, Halkundi Village
Bellary-583102
2. Name of the Station : Product Processing Area
3. Date of Monitoring :24.02.2022

Results

Sl.No	Parameters	Unit	Results	Method	OSHA Limits
	Period of Sampling/time	Hrs	24 08:55 am- 08:55 am	--	--
1.	Dust Concentration	mg/m ³	0.208	IS:5182 (P2)	NS

NS- Not Specified

Summary of Water Quality Analysis Report by M/s Supra Steel & Power Pvt. Ltd. –Industrial Premises (Borewell Water) for the months of November 2021 to March 2022

Sl. No.	Parameters	Units	Standards		Months				
			AL	PL	Nov	Dec	Jan	Feb	Mar
1	pH	-	6.5-8.5	NR	7.45	7.28	8.11	7.47	7.84
2	Odor	-	Agreeable		Agreeable				
3	Color	Hazen	5	15	<1	<1	<1	<1	<1
4	Turbidity	NTU	1	5	0.64	0.40	0.54	0.50	0.04
5	Total Dissolved Solids	mg/L	500	2000	1938	2380	2174	1800	1956
6	Electric conductivity	µs/cm	Not Specified		2820	3430	3410	2760	3034
7	Chloride as Cl	mg/L	250	1000	408.98	399.13	451.66	505.09	452.6
8	Sulphate as SO ₄	mg/L	200	400	126.53	88.59	176.44	158.92	148.19
9	Total Hardness	mg/L	200	600	880	890	730	510	580
10	Calcium as Ca	mg/L	75	200	220	224	160	168	184
11	Magnesium as Mg	mg/L	30	100	60.19	80.19	80.19	21.87	29.16
12	Iron as Fe	mg/L	1	NR	0.30	0.17	BDL	BDL	BDL
13	Fluoride as F	mg/L	1	1.5	0.66	1.16	0.98	0.44	0.58
14	Nitrate as NO ₃	mg/L	45	NR	38.0	28.83	26.65	28.25	33.66
15	Residual Free Chlorine	mg/L	0.2	1.0	BDL	BDL	BDL	BDL	BDL
16	Phenolic compounds	mg/L	0.001	0.002	BDL	BDL	BDL	BDL	BDL
17	Cyanide as CN	mg/L	0.05	NR	BDL	BDL	BDL	BDL	BDL
18	Salinity	mg/L	Not Specified		738.88	721.04	815.9	912.5	817.66
19	Sodium as Na	mg/L	Not Specified		29.2	372	324	320	396
20	Potassium K	mg/L	Not Specified		2.4	1.6	16	1.6	1.2
21	Hexavalent Chromium as Cr ⁺⁶	mg/L	Not Specified		0.074	ND	ND	ND	ND

22	Alkalinity as CaCO ₃	mg/L	200	600	200	280	250	280	330
23	Boron as B	mg/L	0.5	1.0	0.16	0.25	0.29	0.82	0.90
24	Copper as Cu	mg/L	0.05	1.5	BDL	ND	ND	ND	ND
25	Manganese as Mn	mg/L	0.1	0.3	BDL	ND	ND	ND	ND
26	Mercury as Hg	mg/L	0.001	NR	BDL	ND	ND	ND	ND
27	Cadmium as Cd	mg/L	0.003	NR	BDL	ND	ND	ND	ND
28	Selenium as Se	mg/L	0.01	NR	BDL	ND	ND	ND	ND
29	Arsenic as As	mg/L	0.01	NR	BDL	ND	ND	ND	ND
30	Lead as Pb	mg/L	0.01	NR	BDL	ND	ND	ND	ND
31	Zinc as Zn	mg/L	5	15	BDL	ND	ND	ND	ND
32	Aluminum as Al	mg/L	0.03	0.2	0.9	ND	ND	ND	ND
33	Total Coliform	Present/Absent/10 0ml	Not Specified		Absent	Absent	Absent	Absent	Absent
34	E coli	Present/Absent/10 0ml	Absent		Absent	Absent	Absent	Absent	Absent
35	Fecal Coliform	Present/Absent/10 0ml	Absent		Absent	Absent	Absent	Absent	Absent

Annexure -III

F. No. J-11011/701/2009-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail: vp.upadhyay@nic.in
Telefax: 011: 2436 2875

Dated: 14th June, 2013

To,
M/s Supra Steel & Power Pvt. Limited
Plot No. 7, 4th Cross, Nanda School Road,
Vidyanagar West, Bellary - 583 104,
Karnataka

Fax: 08392- 243636
E-mail: suprasteels@yahoo.com

Sub: Expansion of Sponge Iron Plant from 50 TPD to 200 TPD along with installation of Induction Furnace (30,000 TPA), Rolling Mill (75,000 TPA) and Captive Power Plant (4 MW) ay Sy. No. 276, Village Halkundi, Taluk & District Bellary, Karnataka by M/s **Supra Steel & Power Pvt. Limited - regarding Environmental Clearance**

Ref: i) MoEF letter no. J-11011/701/2009 - IA II (I) dated 10.1.2013
ii) Your letters No.Nil dated 29.1.2013

Sir,

This is in continuation of this Ministry's letter referred above and your letter under reference, wherein you have requested for rectification in the sponge iron plant capacity as 200 TPD instead of 150 TPD and also in the subject matter as "Expansion of Sponge Iron Plant from 50 TPD to 250 TPD" instead of "Expansion of Sponge Iron Plant from 50 TPD to 200 TPD" of the environmental clearance (EC) dated 10.1.2013.

2. The Ministry of Environment and Forests has examined the request submitted by you. In this regard, it is requested to submit the revised utilities requirement and Environmental Management Plan for change in configuration of the DRI kiln as 2x100TPD in place of 3x50 TPD DRI kilns for further processing the proposal.

Yours faithfully,


(Dr.V.P.Upadhyay)
Director(S)

F. No. J-11011/701/2009-IA-II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail: r.sundar@nic.in
Telefax: 011: 2436 6739
Dated: 11th January, 2013

To,

M/s Supra Steel & Power Pvt. Limited
Plot No. 7, 4th Cross, Nanda School Road,
Vidyanagar West, Bellary - 583 104,
Karnataka

Fax: 08392- 243636

E-mail: suprasteels@yahoo.com

Sub: Expansion of Sponge Iron Plant from 50 TPD to 200 TPD along with installation of Induction Furnace (30,000 TPA), Rolling Mill (75,000 TPA) and Captive Power Plant (4 MW) ay Sy. No. 276, Village Halkundi, Taluk & District Bellary, Karnataka by M/s Supra Steel & Power Pvt. Limited - regarding Environmental Clearance

Sir,

This has reference to your letter no. nil dated nil received in the Ministry 11.04.2011 along with copies of EIA/EMP and public hearing reports and subsequent communication dated 16.07.2011 seeking environmental clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s Supra Steel & Power Pvt. Ltd. have proposed to expand its Sponge Iron Plant from 50 TPD to 200 TPD along with installation of Induction Furnace (30,000 TPA), Rolling Mill (75,000 TPA) and Captive Power Plant (4 MW) at Village Halkundi, Taluq & District Bellary, Karnataka. Total project area is 18.50 Acres, which is acquired and green belt will be developed in 6.1 acres (33%) of plant area. No national park / wild life sanctuary is located within a radius of 10 km of the project. However Bellary and Mincheri Reserve Forests are located within a distance of 1.0 km and 2.5 km respectively. Total cost of the proposed expansion is Rs. 55.84 Crores. Rs 2.7 Crores and Rs. 1.3 Crores are earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures.

3. Following are the details of existing and proposed facilities:

S.No.	Facility	Capacity
	Existing	
1	Sponge Iron Plant	50 TPD (1 x 50 TPD)
	Proposed	
1	Sponge Iron Plant	150 TPD (2 x 100 TPD kiln)
2	Induction furnace	30,000 TPA
3	Rolling Mill	75,000 TPA
4	Captive Power Plant	4 MW
	WHRB	1 MW
	FBC	3 MW

4. The raw materials required for sponge iron manufacturing will be Iron ore fines (1,08,000 TPA), coal (51,000 TPA) and limestone (1,800 TPA). Fuel supply agreement has been signed with M/s Singareni Collieries Company Limited for supply of coal for the existing plant and for the proposed expansion coal requirement will be met by import from Indonesia and South Africa. The waste gases from the kiln will be let into the waste heat boiler to generate steam for power generation. Coal fines/char/dolochar will be fired in a FBC boiler to generate steam, which will be used for power generation.
 5. Waste gases from DRI kiln will be passed through dust settling chamber, after burning chamber and a gas conditioning tower / WHRB, where the gases will be cooled. The cooled gases will be sent to electrostatic precipitator (ESP) and the clean gases would be let off to atmosphere through a chimney. ESP will be provided to captive power plant. Bag filters and ESP will be provided as air pollution control measures. To control the fugitive dust emissions water will be sprinkled on the roads.
 6. The water requirement for the existing plant operations is 50m³/day. For the expansion, the water requirement will increase to 264m³/day. The water requirement will be met from the Bellary Sewage Treatment Plant for Industrial use and Bore well water for domestic use. DM plant backwash, cooling tower and boiler blow down are neutralized in neutralization tank and used for gardening. Domestic effluent will be treated in septic tank followed by soak pit.
 7. Solid waste generated in the form of sponge Iron fines and will be sold to brick manufacturing units. Fly Ash, Dolochar & bottom ash will be sold to brick manufacturing units. Scrap will be reused in the process and Slag will be used for landfill/ road construction through approved agencies. Spent oil will be stored in leak proof containers and reused for lubrication
 8. Personal protective equipments like ear muffs will be provided to employees working in high noise prone areas. Acoustic lagging / silencers will be provided to noise generating equipment. Power requirement (including existing) of 9 MW will be met from Captive Power Plant and GESCO. The Company has obtained assurance for power supply from Karnataka Udyog Mitra (KUM), a State Level Single Window Agency of Government of Karnataka. DG sets (2 X1500 KVA) will be installed.
 9. All the sponge iron plants (\geq 200 TPD) are listed in S.No. 3 (a) Primary Metallurgical Industries under category 'A' as per the Schedule of EIA Notification, 2006 and appraised at Centre.
 10. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 25th meeting held during 29th - 30th June, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing for the project was held on 29.12.2010.
 11. Based on the information submitted by you, presentation made by you and consultant, M/s KRS Enterprises, Bangalore, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:
- A. SPECIFIC CONDITIONS :**
- i. Compliance to all the specific and general conditions stipulated for the existing plant(s) by the Central/State Govt. should be ensured and regular reports submitted to the Ministry and its Regional Office at Bangalore.

- ii. Electrostatic precipitator (ESP), dust catcher, bag filters etc. shall be provided to keep the emission levels within 50 mg/Nm³ and by installing energy efficient technology.
- iii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
- iv. Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.
- v. Hot gases from Rotary kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. The water consumption shall not exceed as per prescribed standards for the steel plants
- vi. Total water requirement shall not exceed 264 m³/day. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- vii. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.
- viii. Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E (P) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB.
- ix. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' shall be submitted to the Ministry's Regional Office at Bangalore.
- x. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.
- xi. Measures shall be taken to prevent impact of particulate emissions / fugitive emissions, if any from the proposed plant on the surrounding reserved forests.
- xii. Green belt shall be developed in 33% of plant area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO.
- xiii. Risk and Disaster Management Plan alongwith the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, CECB and CPCB within 3 months of issue of environment clearance letter.
- xiv. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 29th December, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bangalore.

- xv. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.
- xvi. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.
- iv. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bangalore and the SPCB/CPCB once in six months.
- v. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- vi. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- ix. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.

- x. Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bangalore. The funds so provided shall not be diverted for any other purpose.
 - xi. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
 - xii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bangalore. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
 - xiii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore / CPCB / SPCB shall monitor the stipulated conditions.
 - xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bangalore by e-mail.
 - xv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bangalore.
 - xvi. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
12. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
13. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

15. This issues with the prior approval of the Competent Authority.


(Sundar Ramanathan)
Deputy Director(S)

Copy to:

- i. The Secretary, Department of Environment & Forests, Government of Karnataka, Bangalore, Karnataka.
- ii. The Chairman, Karnataka State Pollution Control Board, Parisar Bhavan, No. 49, 4th & 5th Floor, Church Street, Bangalore - 560 001, Karnataka.
- iii. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
- iv. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034, Karnataka.
- v. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
- vi. Guard file / Monitoring file / Record file.


(Sundar Ramanathan)
Deputy Director(S)

Regional Office :

Karnataka State Pollution Control Board

No.7, Ward No. 1, K.H.B. Colony,
Near S.P. Circle, Parvathi Nagar,
BELLARY-583 103.

Phone/Fax : (08392) 267514.

Web Site : <http://kspcb.kar.nic.in> E-mail : kspcbply@sancharnet.in

ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ :

ಸಂಖ್ಯೆ 7, ವಾರ್ಡ್ ಸಂಖ್ಯೆ 1, ಕೆ.ಹೆಚ್.ಬಿ. ಕಾಲೋನಿ,
ಎಸ್.ಪಿ. ಸರ್ಕಲ್ ಹತ್ತಿರ, ಪಾರ್ವತಿ ನಗರ,
ಬೆಳ್ಳಾರಿ - 583 103.

ಕರ್ನಾಟಕ ರಾಜ್ಯ

ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ



towards a cleaner Karnataka

132
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No KSPCB/EO (BLY)/DEO/AEO-1/CFE/MR/2004-2005/ 2107 . Date: 22.03.2005

To,
THE MANAGING DIRECTOR,
M/S.SUPRA STEEL & POWER PVT.LTD,
P LOT No. 7, 4 th CROSS NANDA SCHOOL ROAD,
VIDYA NAGAR WEST.
BELLARY.

Sir,

Sub: Consent for establishment and clearance from Water And Air pollution control point of view for setting up of new industry for the manufacture of the Sponge iron and Dolachar of production capacity 1250MT/MONTH (50 TPD) & 312 MT/MONTH respectively at sy.no. 276 & 280A, Halakundi village Bellary Tq and Dist

Ref: 1.Your application Dated 14.02.2005.

2.Insepection of the proposed site on 03.03.2005.

3.Proceedings of the Consent Committee meeting held on 19.03.2005.

With reference to the above, it is to be informed that this Board has cleared the project from the Water and Air pollution control point of view for setting up of new industry for the manufacture of the Sponge iron and Dolachar of production capacity 1250 MT/MONTH (50 TPD) & 312 MT/MONTH respectively at at sy.no.276 & 280A, Halakundi village Bellary Tq and Dist, subjected to the following conditions stated below are complied with:

1. The industry shall not undertake expansion / diversification/ modernization, Change of location of site etc... without the prior clearance from the Board.
2. The industry shall take afforestation measures in the factory area, so that green belt around the factory premises is maintained.
3. This CFE is related only to pollution aspects of the said project with respect to the said location. This consent is in no way to be construed to give any right, in any nature, to the applicant what so ever, in this regard.
4. This consent for establishment is valid for three years from the date of issue.
5. This CFE is issued for the total project cost of Rs.495.0 lakhs only. There shall not be any additional investment in the proposed plant with out prior approval from the Board.

ಪ್ಲಾಸ್ಟಿಕ್ ಬಳಕೆ ನಿಲ್ಲಿಸಿ, ಪರಿಸರ ಹಾನಿ ತಪ್ಪಿಸಿ Avoid use of Plastic Be Eco Friendly

I. WATER POLLUTION CONTROL:

1. The industry shall not generate any trade effluent from the process or otherwise.
2. The industry shall treat the domestic wastewater from the factory either in septic tank with soak pits/ dispersion trenches, no overflow from the soak pit and dispersion trenches is allowed. The septic tank and soak pit shall be designed as per IS 2470 Part-I and Part-II.
3. The total water requirement for the plant shall not exceed 2.5 m³/hr.
4. The water utilized for cooling shall be completely re-circulated after treating with cooling chambers of suitable size. The cooling water recycle shall be closed circuit.
5. The cooling water blow down shall be neutralized before discharge & it shall conform to the standards in Annexure-I and shall be applied on land for the gardening/green belt within the industry premises.

II. AIR POLLUTION CONTROL:

1. The discharge of emission from the premises of the applicant shall pass through the stacks/ chimneys where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under.
2. The daily / hourly rate of emissions discharged and the tolerance limits of the constituents forming the emissions in each of the stack / chimneys shall not exceed the limits laid down in Annexure-II.
3. a) The industry shall take immediate action to install adequate equipments for the control of constituents in the emissions so as to conform as per conditions No.2 within the date noted against them indicated in Annexure-I and shall get the samples analyzed every month for the parameters mentioned in Annexure-II.
b) The industry shall provide 100% stand by air pollution control equipment on line so that in case of failure of the existing equipment the standby equipment should be used, so as to maintain 100% capacity of control equipment at all times.
4. The industry shall provide port hole for sampling the emissions and access platforms for carrying out stack sampling and provide electrical outlet points and other arrangements for all stacks / chimneys and other sources of emissions so as to collect samples of emissions by the Board or the applicant at any time in accordance with the provisions of the Act and Rules made therein. The details of the location of the sampling portholes, platforms, electrical are detailed in Annexure-II.
6. The applicant shall adopt continuous water sprinkling measures to mitigate the dust nuisance in the plant premises. The entire RMHS operation shall be carried out in closed condition.
7. The conveyor belts chutes especially carrying smallest particles should be covered with semi circular M.S. Sheets and heaps shall be located in appropriate sheds wherever possible with all possible arrangements to prevent escape of dust during loading and unloading operation.

8. Suitable exhaust and venting system of adequate capacity to be provided to guide the dust emanating from the crushers into the stack
9. The applicant shall earmark separate areas within the premises for storage of raw material and finished products and it shall be covered with canvas tarpaulins or stored in a room.
10. The applicant shall provide minimum 5.0 meters height compound wall to avoid carry over of fugitive dust to neighboring premises and shall provide wind break walls.
11. The applicant shall ensure that there are no complaints from the public / private / NGO's / neighboring industries regarding the operation of the plant. If so the consent order is deemed to be revoked without prejudice and industry shall close down the operation for effecting modification so as to render the emissions to the prescribed standards.
12. The applicant shall ensure that the noise level from the premises of the industry shall not exceed 75 dB (A) Leq. and 70 dB (A) Leq. during day and night time respectively.
13. The industry shall not change or alter either the quality or quantity or rate of emission or install / replace or alter the Air pollution control equipments, change in raw material or manufacturing process resulting in change in quality and / or quantity of emissions, shall be intimated to Board.
14. The applicant shall take up the metalling works of the approach road to the coal processing plant and also shall take up roadside avenue plantation.
15. The applicant shall furnish all the documents relevant to expansion activity and is liable to pay the balance consent fees if any based on the documents produced.
16. The applicant shall provide 5 rows of tall growing trees each of width 33% of total plant area plantations around the periphery of the factory premises.
17. The applicant shall carry out Ambient Air Quality monitoring in all four directions at a radius 40.0 meters from the plant once in a month and results shall be submitted to this office regularly.
18. The applicant shall submit the proposal for providing the air pollution control measures to the raw material feeding and coal feeding line within 15 days.
19. The applicant shall adopt dust suppression system / dry fog system to suppress the fugitive dust generated from the conveyors and at dropping points.

III. SOLID WASTE DISPOSAL:

The applicant shall dispose of all the solid waste generated from the process in a scientific manner without causing pollution directly or indirectly / nuisance to the public. The factory premises and the surroundings shall be kept clean. The details of solid waste generated and mode of disposal of solid waste and the area selected for the same shall be got approved by the Board by duly furnishing the relevant information within 30 days from the date of receipt of this consent for establishment.

The applicant shall provide garland drains around the mineral stack yard with the intermittent pits to avoid the material run off into any nearby nallah/ agricultural lands.

The applicant shall provide water sprinklers around the stack yard and all along the approach road...

The slurry and other solid waste collected from the Air pollution control equipment shall be collected separately and disposed as per the requirement under the Hazardous Waste (M&H) Rules, 2003.

The applicant shall submit the details of fly ash generated along with ash pond details. The Fly ash disposal/utilization shall be submitted within 30 days.

IV. WATER CESS:

It is binding on the factory as per section 3(3) and 3(4) of Water (Prevention and Control of Pollution) Cess Act 1977 to provide for,

- a. Water meter at the entrance of the water supply connection within the premises of the consumer or at any other place to be approved by the Assessing Authority so that such meter are easily accessible for inspection and maintenance and for other purpose of the Act, provided that the place where it is affixed shall be in no case be at a point before which water has been tapped by the consumer for utilization for any purposes whatsoever.
- b. Separate meters with necessary pipeline for assessing the quantity of water used for each of the four purpose mentioned below before the factory is commissioned.
- c. Industrial cooling, spraying in mine pits or boiler feed.
- d. Domestic purpose.

Every industry after fixing the water meters, shall intimate the initial meter reading to the Assessing Authority and after the industry is commissioned even for trial production file cess returns in the Form-I.

V. GENERAL:


1. The industry shall ensure that during the operation of the plant, if either the emissions from the stacks, chimneys or solid waste disposal do not conform to the standards prescribed by the Board, the industry shall shut down the plant for effecting modification to the treatment works / control equipments so as to render the emissions to the prescribed standards.
2. The applicant shall stop the plant operations immediately if there is any complaint against the industry and set right the pollution control equipment and there shall not be any dust nuisance to the neighbors from the operations of the plant.
3. Exact date of commissioning of the plant shall be informed to this Board 45 days in advance so as to make necessary inspection of the plant and the pollution control measures provided by the industry.
4. (a) The industry shall arrange for alternate power supply to run and operate the essential units of effluent plant/control equipments, in event of brake down of regular supply from Electricity Board. The industry shall provide separate energy meters to the water and air pollution control systems where appropriate. The action taken in this regard shall be informed to the Board within 30 days form the Consent for Establishment/ Clearance.

- b) The industry shall operate the existing Pollution Control equipment efficiently and to keep proper record of run hours, failure times and efficiency with immediate effect. Compliance report shall be furnished once in 3 months.
- (c) Fugitive emission shall be suppressed using water spraying.
- (d) Adequate air pollution control equipments shall be provided to avoid fugitive emissions at loading areas of process. The industry shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
5. For trial or regular production, industry shall establish the effluent treatment plant as approved by the Board is completed in all respects and necessary air pollution control equipments are installed to the satisfaction of the Board. The industry shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machineries.
6. The industry shall not change or alter (a) raw materials or manufacturing process, (b) change the products or products mix (c) the quality, quantity or rate of discharge /emissions and (d) install/replace/alter the water or air pollutions control equipments without the prior approval of the Board.
7. The applicant shall avail training at EMPRI, KSPCB, BANGALORE, and furnish the certificate prior to applying for the consent for the operation.
8. The applicant shall comply with all the Rules and guidelines issued from time to time.
9. This CFE does not give any right to the party/project authority /industry to forego any legal requirement, that is necessary for setting /operation of the plant.
10. The industry shall practice good house keeping and shall obtain ISO 14000 certification.
11. The applicant shall provide Garland drains all round and dust suppression measures near the raw material storage area.

Please note that this is only consent for establishment issued to you to proceed with the formalities to establish the industry and does not give any right, to proceed with trial / regular production. For this purpose, a separate consent of the Board for discharge of liquid effluent and the atmospheric emissions shall have to be obtained by remitting prescribed consent fee, separately for air emissions and wastewater discharge. The application for consent has to be made 45 days in advance to your commissioning for trial production of the plant.

The receipt of this letter may please be acknowledged.

FOR & ON BEHALF OF
KARNATAKA STATE POLLUTION CONTROL BOARD
BELLARY


ENVIRONMENTAL OFFICER



**Consent For Operation
(CFO-Air,Water)**

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

Consent No. AW-303605
Valid upto: 30/06/2022

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

Combined Consent Order No. AW-303605 **PCB ID:** 10483 **Date:** 06/09/2017

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act , 1974 and emission under the Air (Prevention and Control of Pollution) Act , 1981

- Ref: 1. Application filed by the applicant/organization on 06/07/2017
2. Inspection of the Industry/organization/by RO, on 14/07/2017
3. Proceedings of the CCM dated 28/08/2017 ,held on 22/08/2017

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions conforming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Supra Steel & Power Pvt Ltd
Address: Sy No. 276, Halkundi Village
Industrial Area: Not In I.A, Halkundi,
Taluk: Bellary, District: Bellary

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Cooling Water	40.000	6.850	Water is used for cooling purposes and same is completely recycled
2	Domestic Purpose	5.000	4.000	Septic tank & Soak pit
3	Others	28.500	0.000	Water is used for Gardening & others uses.

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	Sponge Iron	0.000	---
2	Sponge Iron 100TPD	3000.0000	M.T
3	Sponge Iron 50TPD	1500.0000	M.T

This consent is valid for the period from 06/07/2017 to 30/06/2022

For and on behalf of the
Karnataka State Pollution Control Board



**SHIVALINGE GOWDA KN -
CHIEF/SENIOR ENVIRONMENTAL
OFFICER**

To,
Supra Steel & Power Pvt Ltd
Mines Road,



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-303605
Valid upto: 30/06/2022

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

COPY TO:

The Environmental Officer, KSPCB, Regional Office Bellary for information and necessary action.

2. Master Register.
3. Case file.

Consent Fee paid : Rs. 300000

SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.

2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.

2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.

3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annexure-I

3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.

4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.

5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.

6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.

7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:

8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.

2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.

3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. WATER CESS:

1. The applicant shall provide water meter at all the intake points as specified under Section (5) of the Water Cess Act, 1977 and shall file the Water Cess returns regularly before fifth of every month and also pay the Cess assessed with the time stipulated.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-303605
Valid upto: 30/06/2022

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
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(This document contains 6 pages including annexure & excluding additional conditions)

D.MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

E. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.

F. NOISE POLLUTION CONTROL:

1. The applicant shall ensure that the ambient noise levels within its premises shall not exceed the limits i.e 75 dB(A) Leq during day time and 70 dB(A) Leq during night time as specified in under the Air (Prevention and Control of Pollution) Act, 1981.

G. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

H. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-303605
Valid upto: 30/06/2022

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
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(This document contains 6 pages including annexure & excluding additional conditions)

10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

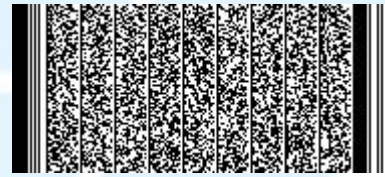
NOTE:

The Conditions A.2(b), 3(a), 3(b) mentioned in the schedule are not applicable.

Additional Conditions:

This consent is valid for the period from 01.07.2017 to 30.06.2022 only and the applicant shall comply to conditions with respect to asphaltting of internal roads immediately. Also refer the uploaded documents.

For and on behalf of the
Karnataka State Pollution Control Board



**SHIVALINGE GOWDA KN -
CHIEF/SENIOR ENVIRONMENTAL
OFFICER**



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-303605
Valid upto: 30/06/2022

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

Chimney No.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Any Other....	IOCS Plant	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	SPM		FIL	Before commissioning.
2	D.G. Sets	DG Set-400 KVA	6	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,100,50	DIE	AEC	Before commissioning.
3	D.G. Sets	DG Set-600 KVA	7	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,100,50	DIE	AEC, SET	Before commissioning.
4	Any Other....	intermediate bins	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	particulates		FIL	Before commissioning.
5	Any Other....	coal crushing and screeni	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	particulates		FIL	Before commissioning.
6	Cooler Exit	cooler discharge	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	particulates		FIL	Before commissioning.
7	Any Other....	product house	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	particulates		FIL	Before commissioning.
8	Kilns	Kilns-50tpd&100TPD	50	PM(mg/NM3), SO2 (PPM), NOx(PPM)	particulates		FIL, ESP	Before commissioning.

Note:

FIL : Bag Filter

AEC : Accoustic Enclosures

AEC, SET : Accoustic Enclosures

FIL : Bag Filter

FIL, ESP : Bag Filter

Note:

1. The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.

2. The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.

3. There shall be no smell or odour nuisance from the industry.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-303605
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Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
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Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to at least eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.



**Form 2 -[Rule 6(2)] Authorization under
Hazardous & Other Wastes [Management
& Transboundary Movement]Rules,2016**

**KARNATAKA STATE POLLUTION CONTROL
BOARD Survey No.597 P, Ward No.254th
Main, Near Dr.Vishnuvardhana Park,
Kuvempunagara Bellary-583104 Tele
No:08392-240514**

Authorization No: H-113893 Valid upto: 30/06/2022

(This document contains 3 pages excluding annexure)

Authorization No: H-113893

PCB ID: 10483

Date: 10/08/2020

**FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION
CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS,
USER AND OPERATORS OF DISPOSAL FACILITIES**

1. Authorization application submitted by the industry/organization on 09/06/2020 at Regional Office.
2. Profile approved by Regional Office Bellary
3. Proprietor of Supra Steel & Power Pvt Ltd is hereby granted an authorization for Generation, Selection, Reception, Storage, Transport or any other use of hazardous or other wastes or both on the premises situated at the location address: Halkundi Village Industrial Area:Not In I.A Taluk: Bellary District: Bellary

Details of Authorization:

Category of Hazardous waste as per the Schedule I,II & IV of these rules	Description of Hazardous Waste	Quantity/Annum	Unit	Authorized Mode of Disposal or recycling or utilization or co-processing, etc.,
I	5.1-Used Spent Oil	0.190	KLT	Shall be collected in leak proof containers and disposed to KSPCB authorized Re-processors/ Incinerator.
I	5.2-Wastes Residues Containing Oil	0.020	M.T	Shall be collected in leak proof containers and disposed to KSPCB authorized Re-processors/ Incinerator.

The authorization shall be valid for a period upto 30/06/2022

A. General Conditions of authorization:

- The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules made there under.
- The authorization or its renewal shall be produced for inspection at the request of an Officer authorized by the Karnataka State Pollution Control Board.
- The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes and other wastes except what is permitted through this authorization and without obtaining prior permission of the KSPCB.
- Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
- The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".



**Form 2 -[Rule 6(2)] Authorization under
Hazardous & Other Wastes [Management
& Transboundary Movement]Rules,2016**

**KARNATAKA STATE POLLUTION CONTROL
BOARD Survey No.597 P, Ward No.254th
Main, Near Dr.Vishnuvardhana Park,
Kuvempunagara Bellary-583104 Tele
No:08392-240514**

Authorization No: H-113893 Valid upto: 30/06/2022

(This document contains 3 pages excluding annexure)

- It is the duty of the authorized person to take prior permission of the Karnataka State Pollution Control Board to close down the facility.
- The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- An application for the renewal of an authorization shall be made '**3**' months before the date of expiry.
- The Person authorized shall bring to the notice of the Board, if any increase in quantity, change in category and handling operation. In such cases, the authorized Person has to obtain fresh authorization.
- Karnataka State Pollution Control Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization or to suspend or cancel this authorization.
- The Person authorized shall take steps for reduction and prevention of the waste generated or for recycling or reuse.
- The authorized person shall maintain the records at site in Form-3 and shall submit the annual returns in Form-4 within 30th June every year for the Period April to March and manifest in Form-10.
- The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- The hazardous and other waste which gets generated during recycling or reuse or recovery or per-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- The transportation of hazardous waste shall have to be carried out only through registered/authorized vehicles meant for transportation of hazardous waste.
- The Person Authorized shall not store the Hazardous Waste more than ninety days as per Rule 8 (1).
- The Person Authorized shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
- Display Boards: The person authorized shall display sign boards at the storage site as "Hazardous Waste Storage Site" and "Danger" and the site shall be provided with accident preventive measures.

Additional Conditions:

General Conditions - are not applicable.

Regional Officer
For and on behalf of the
Karnataka State Pollution Control Board

This is Computer generated Authorization Order.

To
The Occupier,
Supra Steel & Power Pvt Ltd
Mines Road,

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, for information and to inspect the industry within 15 days of time.
2. Master copy (Dispatch).
3. Office copy.



Form 2 -[Rule 6(2)] Authorization under
Hazardous & Other Wastes [Management
& Transboundary Movement]Rules,2016

**KARNATAKA STATE POLLUTION CONTROL
BOARD**Survey No.597 P, Ward No.254th
Main, Near Dr.Vishnuvardhana Park,
KuvempunagaraBellary-583104Tele
No:08392-240514

Authorization No: H-113893 Valid upto: 30/06/2022

(This document contains 3 pages excluding annexure)

Annexure -IV

PRESS ADVERTISEMENT
 Issue of MoEF-EC Clearance.

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**USE FOR
 3 WEEKS &
 SEE THE RESULTS**

ಇದೇ ರೀತಿಯ ಹೆಸರುಗಳ ಬಗ್ಗೆ ಎಚ್ಚರವಹಿಸಿ.
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Broadway, Hubli.
 Showcasing Exclusive
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 ATTRACTIVE OFFERS
All are welcome

ENVIRONMENTAL CLEARANCE

The Ministry of Environment & Forests, Govt. of India, has accorded the **Environmental Clearance** under the provision of EIA Notification, 2006, vide its order no. F.NO.J-11011/51/2009-IA II(I) dated 30th April 2009 to **M/s. Shree Venkateswara Sponge & Power Pvt. Ltd** for expansion of Sponge Iron Plant with Rotary Kiln of 100 TPD and installation of Induction Furnace, Rolling Mill & Captive Power Plant at Halakundi Village, Tq. & Dist. Bellary, Karnataka.

A copy of this order is available at Karnataka State Pollution Control Board, "Parisara Bhavan", No.49, 4th & 5th Floors, Church Street, Bangalore -560 001 & can also be seen in the web site of the Ministry of Environment & Forests, New Delhi at <http://envfor.nic.in>

ENVIRONMENTAL CLEARANCE

The Ministry of Environment & Forests, Govt. of India, has accorded the **Environmental Clearance** under the provision of EIA Notification, 2006, vide its order no. F.NO.J-11011/427/2011-IA II(I) dated 10th September 2013 to **M/s. Tapal Steel Pvt. Ltd** for expansion of Induction Furnace and establishment of Rolling mill within the existing premises at Halakundi Village, Tq. & Dist. Bellary, Karnataka.

A copy of this order is available at Karnataka State Pollution Control Board, "Parisara Bhavan", No.49, 4th & 5th Floors, Church Street, Bangalore -560 001 & can also be seen in the web site of the Ministry of Environment & Forests, New Delhi at <http://envfor.nic.in>

ENVIRONMENTAL CLEARANCE

The Ministry of Environment & Forests, Govt. of India, has accorded the **Environmental Clearance** under the provision of EIA Notification, 2006, vide its order no. F.NO.J-11011/701/2009-IA II(I) dated 11th January 2013 to **M/s. Supra Steel & Power Pvt. Ltd** for expansion of Sponge Iron Plant with installation of Induction Furnace, Rolling Mill & Captive Power Plant at Halakundi Village, Tq. & Dist. Bellary, Karnataka.

A copy of this order is available at Karnataka State Pollution Control Board, "Parisara Bhavan", No.49, 4th & 5th Floors, Church Street, Bangalore -560 001 & can also be seen in the web site of the Ministry of Environment & Forests, New Delhi at <http://envfor.nic.in>

ಇದರ ಪ್ರತಿಯನ್ನು ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ ಮತ್ತು ಕೇಂದ್ರ ಪರಿಸರ ಮತ್ತು ಅರಣ್ಯ ಸಚಿವಾಲಯದ ವೆಬ್‌ಸೈಟ್: <http://envfor.nic.in> ರಲ್ಲಿ ನೋಡಬಹುದಾಗಿದೆ.

ಶುಚಿಯ ಕಾರ್ಯ ಸಹಭಾಗಿ ಸೌಂದರ್ಯ

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Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Main Gate
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/03/14896
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 06:50am - 06:50am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	86	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	33	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	7.93	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	21.83	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	7.71	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.96	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	2.18	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	BDL	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near DG Room
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/03/14897
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards,2009	Protocol
Period of Sampling/Time		Hrs	24 07:10am - 07:10am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	76	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	25	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	5.78	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	20.78	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	5.52	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.84	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.95	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.012	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Iron and Coal Screening
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDC/ SS&PPL/ A/22/03/14898
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 07:30am - 07:30am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	67	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	22	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	5.44	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	16.51	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	4.82	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.62	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.70	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.024	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/ AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report

(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Weigh Bridge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDC/ SS&PPL/ A/22/03/14899
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 07:00am - 07:00am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	63	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	19	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	4.50	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	14.70	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	4.26	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.53	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.51	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	BDL	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

(Thejaswi.N)

Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Cooler Discharge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/03/14900
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	8 07:20am - 07:20am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	94	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	35	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	8.52	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	25.10	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	8.24	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	1.24	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	2.46	180 (1 hr Average)	Instrument method Lab-SOP No. EHSRDC Unit-II/SOP/ AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
8.	Lead (Pb)	µg/ m ³	0.021	1.0 (24 hr Average)	
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report

(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WORKZONE AIR QUALITY

1. Name of the Station : Raw material Handling Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy.No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/ SS&PPL /WA/22/03/14901
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 07:40am - 07:40am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.284	IS: 5182 (P23)	Not Specified

INFERENCE	As per OSHA Limits, Report Status: -The measured values for above parameters were observed to be within the said standards.
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End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report**ANALYSIS REPORT OF WORKZONE AIR QUALITY**

1. Name of the Station : Cooler Discharge Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/ SS&PPL /WA/22/03/14902
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 08:00am - 08:00am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.389	IS: 5182 (P23)	Not Specified

INFERENCE

As per OSHA Limits,

Report Status: -The measured values for above parameters were observed to be within the said standards.

End of Report

(Thejaswi.N)
Government Analyst**Concern towards protecting Environment**

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WORKZONE AIR QUALITY

1. Name of the Station : Near Crusher area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research
& Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/ SS&PPL /WA/22/03/14903
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

Sl. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 07:50am - 07:50am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.541	IS: 5182 (P23)	Not Specified

INFERENCE

As per OSHA Limits,
Report Status: -The measured values for above parameters were observed to be within the said standards.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WORKZONE AIR QUALITY

1. Name of the Station : Product Processing Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety
Research & Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/ SS&PPL /WA/22/03/14904
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	8 8:10am - 8:10am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.247	IS: 5182 (P23)	Not Specified

INFERENCE	As per OSHA Limits, Report Status: -The measured values for above parameters were observed to be within the said standards.
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End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.
ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report**ANALYSIS REPORT FOR SOURCE EMISSION**

1. Stack ID : Cooler Discharge
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/03/14905
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	20.03.2022
Ambient Temperature (°C)	26
Stack Temperature (°C)	36
Velocity (m/s)	5.99
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3315.25
Dust Emission rate of PM, Kg/hr	0.152

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	45.73	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	16.44	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	11.11	Not Specified

End of Report

(Thejaswi.N)
Government Analyst**Concern towards protecting Environment**

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Iron ore Crushing & Screening
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/03/14906
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	20.03.2022
Ambient Temperature (°C)	25
Stack Temperature (°C)	37
Velocity (m/s)	5.87
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3227.99
Dust Emission rate of PM, Kg/hr	0.108

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	33.47	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	11.19	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	8.37	Not Specified

End of Report


 (Thejaswi.N)
 Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Product House
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/03/14907
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	20.03.2022
Ambient Temperature (°C)	26
Stack Temperature (°C)	41
Velocity (m/s)	5.87
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3256.34
Dust Emission rate of PM, Kg/hr	0.133

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	40.83	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	13.70	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	10.41	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 400 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/03/14908
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	20.03.2022
Ambient Temperature (°C)	28
Stack Temperature (°C)	133
Velocity (m/s)	7.55
Diameter (m)	0.1
Cross Sectional Area in meter square (m ²)	0.008
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	158.10
Dust Emission rate of PM, Kg/hr	0.007

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	46.56	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	18.33	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	12.67	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 600 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/03/14909
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	20.03.2022
Ambient Temperature (°C)	28
Stack Temperature (°C)	144
Velocity (m/s)	8.05
Diameter (m)	0.15
Cross Sectional Area in meter square (m ²)	0.018
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	369.50
Dust Emission rate of PM, Kg/hr	0.018

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	49.33	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	19.38	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	10.92	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.
ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Intermediate Bin
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/03/14910
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	20.03.2022
Ambient Temperature (°C)	26
Stack Temperature (°C)	40
Velocity (m/s)	6.29
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3436.25
Dust Emission rate of PM, Kg/hr	0.190

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	55.41	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	20.38	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	14.05	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Rotary Kiln 50 TPD
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 20.03.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.03.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/03/14911
8. Report issued on : 28.03.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	20.03.2022
Ambient Temperature (°C)	29
Stack Temperature (°C)	161
Velocity (m/s)	8.27
Diameter (m)	1.2
Cross Sectional Area in meter square (m ²)	1.130
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	23426.60
Dust Emission rate of PM, Kg/hr	0.868

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	37.06	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	12.28	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	9.58	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 20.03.2022
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,665576,8082,8084 & 8002
5. Date of Sample Receipt : 23.03.2022
6. Sample Number : EHSRDC/SS&PPL/N/22/03/14912 - 14916
7. Report issued on : 28.03.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1

Code No	Sample Location	Time Frequency	Parameters in dB(A)	CPCB Std.
			L _{eq}	
14912	Near Main Gate	06:55am-10:00pm	71.41	75.0 dB(A) - Day
14913	Near DG Room	07:25am-10:00pm	67.17	
14914	Near Cooler Discharge	07:35am-10:00pm	69.83	
14915	Near Iron & Coal	07:45am-10:00pm	65.56	
14916	Near Weigh Bridge	07:15am-10:00pm	64.12	

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq}: It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq}, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

INFERENCE

As per CPCB Standards,

Report Status: -The measured values for the above locations are within the standards.

End of Report

(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 20.03.2022
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,665576,8082,8084 & 8002
5. Date of Sample Receipt : 23.03.2022
6. Sample Number : EHSRDC/SS&PPL/N/22/03/14912 - 14916
7. Report issued on : 28.03.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1

Code No	Sample Location	Time Frequency	Parameters in dB(A)	CPCB Std.
			L_{eq}	
14912	Near Main Gate	10:01pm - 6:00am	61.94	70.0 dB(A) - Night
14913	Near DG Room	10:01pm - 6:00am	56.08	
14914	Near Cooler Discharge	10:01pm - 6:00am	57.75	
14915	Near Iron & Coal	10:01pm - 6:00am	54.54	
14916	Near Weigh Bridge	10:01pm - 6:00am	52.60	

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq} : It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq} , denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

INFERENCE	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
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End of Report

(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WATER QUALITY

- | | |
|------------------------------------|---|
| 1. Name of the Location | : Industry Premises, Borewell water. |
| 2. Name of the Project | : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102. |
| 3. Sample Collected by | : M/s. Environmental Health and Safety Research
& Development Centre Bangalore - 560 010. |
| 4. Date of Collection | : 20.03.2022 |
| 5. Particulars of Sample Collected | : Borewell water, Grab Sampling. |
| 6. Date of Sample Receipt | : 23.03.2022 |
| 7. Sample Number | : EHSRDC/SS&PPL/W/22/03/14917 |
| 8. Analysis started on | : 23.03.2022 |
| 9. Analysis Completed on | : 28.03.2022 |
| 10. Report issued on | : 28.03.2022 |
| 11. Page No. | : 1 of 1 |
| 12. Protocol | : APHA 23 rd Edition, IS Method |

Sl.No	Parameters	Test Method	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					AL	PL
1.	pH	APHA 4500H+ B	--	7.84	6.5-8.5	NR
2.	Odour	IS 3025(Part 5):1983	--	Agreeable	Agreeable	
3.	Colour	IS 3025(Part 4):1983	Hazen	< 1	5	15
4.	Turbidity, Max	APHA 2130 B	NTU	0.04	1	5
5.	Total Dissolved Solids, Max	APHA 2540 C	mg/L	1956	500	2000
6.	Electrical Conductivity	APHA 2510 B	µs/cm	3034	Not Specified	
7.	Chloride as Cl, Max	APHA 4500-Cl B	mg/L	452.6	250	1000
8.	Sulphate as SO ₄ , Max	APHA 4500-SO42-E	mg/L	148.19	200	400
9.	Total Hardness, Max	APHA 2340 C	mg/L	580	200	600
10.	Calcium as Ca, Max	APHA 3500-Ca	mg/L	184	75	200
11.	Magnesium as Mg, Max	APHA 3500 Mg B	mg/L	29.16	30	100
12.	Iron as Fe, Max	APHA 3500-Fe B	mg/L	BDL	1	NR
13.	Fluoride as F, Max	APHA 4500F D	mg/L	0.58	1	1.5
14.	Nitrate as NO ₃	APHA 4500-NO3 E	mg/L	33.66	45	NR
15.	Residual Free Chlorine	APHA 4500 Cl B	mg/L	BDL	0.2	1.0
16.	Phenolic Compounds	APHA 5530 C	mg/L	BDL	0.001	0.002
17.	Cyanide	APHA 4500- CN D	mg/L	BDL	0.05	NR


 (Thejaswi.N)
 Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

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आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

Sample Number: EHSRDC/SS&PPL/W/22/03/14917

Page No: 02 of 02

18.	Salinity	APHA 2520 B	mg/L	817.66	Not Specified	
19.	Sodium as Na	APHA 3500 Na B	mg/L	396	Not Specified	
20.	Potassium as K	APHA 3500 K	mg/L	1.2	Not Specified	
21.	Hexavalent Chromium as Cr ⁺⁶	APHA 3500 Cr B	mg/L	Not Detected	Not Specified	
22.	Alkalinity as CaCO ₃ , Max	APHA 2320 B	mg/L	330	200	600
23.	Boron as B, Max	APHA 4500 -B	mg/L	0.90	0.5	1.0
24.	Copper as Cu, Max	APHA 3111 B	mg/L	Not Detected	0.05	1.5
25.	Manganese as Mn, Max	IS 3025 (Part 2): 2019	mg/L	Not Detected	0.1	0.3
26.	Mercury as Hg, Max	IS 3025 (Part 48): 1994	mg/L	Not Detected	0.001	NR
27.	Cadmium as Cd, Max	IS 3025 (Part 2): 2019	mg/L	Not Detected	0.003	NR
28.	Selenium as Se, Max	IS 3025 (Part 2): 2019	mg/L	Not Detected	0.01	NR
29.	Arsenic as As, Max	IS 3025 (Part 2): 2019	mg/L	Not Detected	0.01	NR
30.	Lead as Pb, Max	IS 3025 (Part 2): 2019	mg/L	Not Detected	0.01	NR
31.	Zinc as Zn, Max	IS 3025 (Part 2): 2019	mg/L	Not Detected	5	15
32.	Aluminum as Al, Max	IS 3025 (Part 2): 2019	mg/L	Not Detected	0.03	0.2
33.	Total Coliform	IS 15185:2016	Present/Absent/ 100ml	Absent	Not Specified	
34.	E-Coli	IS 15185:2016	Present/Absent/ 100ml	Absent	Absent	
35.	Fecal Coliform	APHA 9222 D	Present/Absent/ 100ml	Absent	Absent	

AL - Acceptable Limit, PL - Permissible Limit, NR- No Relaxation, BDL: Below detectable limit

REFERENCE	As per IS 10500:2012(Second Revision), Report Status: -The measured values for the above parameters for those standards have been specified were observed to be within the said standards.
-----------	--

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Main Gate
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDC/ SS&PPL/ A/21/11/9311
8. Report issued date : 27.11.2021
9. Page No : 1 of 12

SI. No	Parameters	Unit	Results	NAAQ Standards,2009	Protocol
Period of Sampling/Time		Hrs	24 08.30am - 08:30am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	90	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	33	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	7.47	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	25.63	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	6.72	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	1.04	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.85	180 (1 hr Average)	Instrument method
3.	Lead (Pb)	µg/ m ³	0.126	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

Note: 1. The results relate only to the items tested

2. The report shall not be reproduced except in full or part without approval of the laboratory

End of Report


Nethravathi.L
(Government Analyst)

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near DG Room
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/11/9312
8. Report issued date : 27.11.2021
9. Page No : 2 of 12

SI. No	Parameters	Unit	Results	NAAQ Standards,2009	Protocol
Period of Sampling/Time		Hrs	24 08.40am - 08:40am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	73	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	24	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	4.68	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	13.67	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	4.09	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.56	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	0.84	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.149	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status As per NAAQ Standards,
 Report Status: - The measured values for the above parameters are within the standards.

- Note:** 1. The results relate only to the items tested
 2. The report shall not be reproduced except in full or part without approval of the laboratory
 End of Report


 Nethravathi.L
 (Government Analyst)

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

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See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Processing Room.
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/11/9313
8. Report issued date : 27.11.2021
9. Page No : 3 of 12

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 08.50am - 08:50am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	80	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	27	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	6.32	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	7.70	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	5.37	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.91	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	0.84	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.158	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status	As per NAAQ Standards, Report Status: - The measured values for the above parameters are within the standards.
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Note: 1. The results relate only to the items tested

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End of Report



Nethravathi.L
(Government Analyst)

Concern towards protecting Environment

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See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Iron and Coal
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/11/9314
8. Report issued date : 27.11.2021
9. Page No : 4 of 12

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 08.50am - 08:50am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	78	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	26	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	5.79	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	15.13	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	4.93	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.75	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	0.97	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.231	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

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See NOTE overleaf

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Weigh Bridge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/11/9315
8. Report issued date : 27.11.2021
9. Page No : 5 of 12

Sl. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 09.10am - 09:10am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	85	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	29	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	7.05	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	20.87	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	6.03	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.97	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.48	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.075	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

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See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Rotary Kiln 50 & 100 TPD
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/11/9316
8. Report issued date : 27.11.2021
9. Page No : 6 of 12

GENERAL DETAILS

Date of Monitoring	20.11.2021
Ambient Temperature (°C)	26
Stack Temperature (°C)	38
Velocity (m/s)	6.63
Diameter (m)	2.7
Cross Sectional Area in meter square (m ²)	5.723
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	131344.24
Dust Emission rate of PM ,Kg/hr	3.350

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	25.51	Not Specified

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See NOTE overleaf

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Collection : 20.11.2021
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-8066
5. Date of Sample Receipt : 23.11.2021
6. Sample Number : EHSRDC/ SS&PPL/N/21/11/9317-9321
7. Report issued date : 27.11.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 7 of 12

Code No	Sample Location	Time Frequency	Parameters in dB(A)	CPCB Std.
			L_{eq}	
9317	Near Main Gate	08:30am-10:00pm	69.66	75.0 dB(A) - Day
9318	Near DG Room	08:40am-10:00pm	57.44	
9319	Near Processing Room	08:50pm-10:00pm	64.03	
9320	Near Iron & Coal	09:00am-10:00pm	63.50	
9321	Near Weigh Bridge	09:10am-10:00pm	60.11	

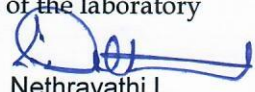
Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq} -It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq} , denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

Compliance status	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
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Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Collection : 20.11.2021
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-8066
5. Date of Sample Receipt : 23.11.2021
6. Sample Number : EHSRDC/ SS&PPL/N/21/11/9317-9321
7. Report issued date : 27.11.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 8 of 12

Code No	Sample Location	Time Frequency	Parameters in dB(A)	CPCB Std.
			L_{eq}	
9317	Near Main Gate	10:00pm - 6:00am	58.67	70.0 dB(A) - Night
9318	Near DG Room		51.25	
9319	Near Processing Room		54.49	
9320	Near Iron & Coal		52.66	
9321	Near Weigh Bridge		49.73	

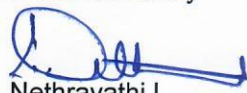
Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq} : It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq} , denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

Compliance status	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
--------------------------	---

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See NOTE overleaf

Test Report

ANALYSIS REPORT OF WATER QUALITY

1. Name of the Location : Industry Premises, Borewell water.
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Bore well water, Grab Sampling.
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDC/SS&PPL/W/21/11/9322
8. Analysis started on : 23.11.2021
9. Analysis Completed on : 27.11.2021
10. Report issued date : 27.11.2021
11. Page No. : 9 of 12
12. Protocol : APHA 23rd Edition, IS Method

Sl. No	Parameters	Test Method	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					AL	PL
1.	pH	APHA 4500H+ B	--	7.45	6.5-8.5	NR
2.	Odour	IS 3025(Part 5):1983	--	Agreeable	Agreeable	
3.	Color	IS 3025(Part 4):1983	Hazen	< 1	5	15
4.	Turbidity, Max	APHA 2130 B	NTU	0.64	1	5
5.	Total Dissolved Solids, Max	APHA 2540 C	mg/L	1938	500	2000
6.	Electrical Conductivity	APHA 2510 B	µs/cm	2820	Not Specified	
7.	Chloride as Cl, Max	APHA 4500-Cl B	mg/L	408.98	250	1000
8.	Sulphate as SO ₄ , Max	APHA 4500-SO ₄ ²⁻ E	mg/L	126.53	200	400
9.	Total Hardness, Max	APHA 2340 C	mg/L	880	200	600
10.	Calcium as Ca, Max	APHA 3500-Ca	mg/L	220	75	200
11.	Magnesium as Mg, Max	APHA 3500 Mg B	mg/L	60.19	30	100
12.	Iron as Fe, Max	APHA 3500-Fe B	mg/L	0.30	1	NR
13.	Fluoride as F, Max	APHA 4500F D	mg/L	0.66	1	1.5
14.	Nitrate as NO ₃	APHA 4500-NO ₃ E	mg/L	38.0	45	NR
15.	Residual Free Chlorine	APHA 4500 Cl B	mg/L	BDL	0.2	1.0
16.	Phenolic Compounds	APHA 5530 C	mg/L	BDL	0.001	0.002
17.	Cyanide	APHA 4500- CN D	Absent	BDL	0.05	NR
18.	Salinity	In house Method	mg/L	738.88	Not Specified	
19.	Sodium as Na	APHA 3500 Na B	mg/L	29.2	Not Specified	


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Test Report

Sample Number: EHSRDC/SS&PPL/W/21/11/9322

Page No: 02 of 02

20.	Potassium as K	APHA 3500 K	mg/L	2.4	Not Specified	
21.	Hexavalent Chromium as Cr+ 6	APHA 3500 Cr B	mg/L	0.074	Not Specified	
22.	Alkalinity as CaCO ₃ , Max	APHA 2320 B	mg/L	200	200	600
23.	Boron as B, Max	APHA 4500 -B	mg/L	0.16	0.5	1.0
24.	Copper as Cu ,Max	APHA 3111 B	mg/L	BDL	0.05	1.5
25.	Manganese as Mn, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.1	0.3
26.	Mercury as Hg ,Max	IS 3025 (Part 48): 1994 RA 2014	mg/L	BDL	0.001	NR
27.	Cadmium as Cd ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.003	NR
	Selenium as Se, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.01	NR
29.	Arsenic as As ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.01	NR
30.	Lead as Pb ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.01	NR
31.	Zinc as Zn ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	5	15
32.	Aluminum as Al, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	0.9	0.03	0.2
33.	Total Coliform	IS 15185:2016	Present/ Absent/ 100ml	Absent	Not Specified	
34.	E-Coli	IS 15185:2016	Present/ Absent/ 100ml	Absent	Absent	
35.	Fecal Coliform	APHA 9222 D	Present/ Absent/ 100ml	Absent	Absent	

AL - Acceptable Limit, PL - Permissible Limit, NR- No Relaxation, BDL: Below detectable limit

Compliance status	As per IS 10500:2012(Second Revision), Report Status: -The measured values for the above parameters for those standards have been specified were observed to be within the said standards.
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Note: 1. The results relate only to the items tested

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End of Report


 Nethravathi.L

(Government Analyst)

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

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आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WATER QUALITY

1. Name of the Location : Industry Premises, RO water
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 20.11.2021
5. Particulars of Sample Collected : Drinking Water (RO), Grab Sampling.
6. Date of Sample Receipt : 23.11.2021
7. Sample Number : EHSRDC/SS&PPL/WW/21/11/9323
8. Analysis started on : 23.11.2021
9. Analysis Completed on : 27.11.2021
10. Report issued date : 27.11.2021
11. Page No. : 1 of 1
12. Protocol : APHA 23rd Edition, IS Method

Sl. No	Parameters	Test Method	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					AL	PL
1.	pH	APHA 4500H+ B	--	7.72	6.5	9.0
2.	Odour	IS 3025(Part 5):1983	--	Agreeable	Agreeable	
3.	Colour	IS 3025(Part 4):1983	Hazen	<1	5	15
4.	Turbidity, Max	APHA 2130 B	NTU	0.58	1	5
5.	Total Dissolved Solids, Max	APHA 2540 C	mg/L	158	500	2000
6.	Electrical Conductivity	APHA 2510 B	µs/cm	194.5	Not Specified	
7.	Chloride as Cl, Max	APHA 4500-Cl B	mg/L	29.56	250	1000
	Sulphate as SO ₄ , Max	APHA 4500-SO ₄ ²⁻ E	mg/L	10.09	200	400
9.	Total Hardness, Max	APHA 2340 C	mg/L	52	200	600
10.	Calcium as Ca, Max	APHA 3500-Ca	mg/L	14	75	200
11.	Magnesium as Mg, Max	APHA 3500 Mg B	mg/L	4.13	30	100
12.	Iron as Fe, Max	APHA 3500-Fe B	mg/L	0.079	1	NR
13.	Fluoride as F, Max	APHA 4500F D	mg/L	0.38	1	1.5
14.	Nitrate as NO ₃	APHA 4500-NO ₃ E	mg/L	5.88	45	NR
15.	Residual Free Chlorine	APHA 4500 Cl B	mg/L	BDL	0.2	1.0
16.	Phenolic Compounds	APHA 5530 C	mg/L	BDL	0.001	0.002
17.	Cyanide	APHA 4500- CN D	Absent	BDL	0.05	NR
18.	Salinity	In-house method	mg/L	53.40	Not Specified	
19.	Sodium as Na	APHA 3500 Na B	mg/L	21.6	Not Specified	


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Test Report

Sample Number: EHSRDC/SS&PPL/W/21/11/9323

Page No: 02 of 02

20.	Potassium as K	APHA 3500 K	mg/L	BDL	Not Specified	
21.	Hexavalent Chromium as Cr+ 6	APHA 3500 Cr B	mg/L	0.008	Not Specified	
22.	Alkalinity as CaCO ₃ , Max	APHA 2320 B	mg/L	70	200	600
23.	Boron as B ,Max	APHA 4500 -B	mg/L	BDL	0.5	1.0
24.	Copper as Cu ,Max	APHA 3111 B	mg/L	BDL	0.05	1.5
25.	Manganese as Mn ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.1	0.3
26.	Mercury as Hg ,Max	IS 3025 (Part 48): 1994 RA 2014	mg/L	BDL	0.001	NR
27.	Cadmium as Cd ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.003	NR
.	Selenium as Se ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.01	NR
29.	Arsenic as As ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.01	NR
30.	Lead as Pb ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.01	NR
31.	Zinc as Zn ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	5	15
32.	Aluminum as Al ,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	BDL	0.03	0.2
33.	Total Coliform	IS 15185:2016	Present/ Absent/ 100ml	Absent	Not Specified	
34.	E-Coli	IS 15185:2016	Present/ Absent/ 100ml	Absent	Absent	
35.	Fecal Coliform	APHA 9222 D	Present/ Absent/ 100ml	Absent	Absent	

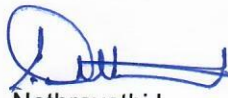
AL - Acceptable Limit, PL - Permissible Limit, NR- No Relaxation, BDL: Below detectable limit

Compliance status	As per IS 10500:2012(Second Revision), Report Status: -The measured values for the above parameters for those standards have been specified were observed to be within the said standards.
-------------------	---

Note: 1. The results relate only to the items tested

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End of Report



Nethravathi.L
 (Government Analyst)

Concern towards protecting Environment

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See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Main Gate
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/12/10534
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

Sl. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 06:35am - 06:35am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	96	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	35	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	9.32	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	26.24	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	7.04	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	1.21	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	2.19	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.014	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	IS:5182 (P26)-2020
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS: 5182 (P 11)-2006
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS:5182 (P 12)-2004
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

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See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near DG Room
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/12/10535
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 07:10am - 07:10pm	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	77	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	28	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	7.37	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	18.31	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	5.40	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.84	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.72	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.051	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	IS:5182 (P26)-2020
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS: 5182 (P 11)-2006
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS:5182 (P 12)-2004
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report

(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

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See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Iron and Coal Screening
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/12/10536
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 07:30am - 07:30pm	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	72	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	25	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	5.32	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	16.60	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	4.81	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.79	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.46	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.030	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

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See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Weigh Bridge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/12/10537
8. Report issued on : 21.12.2021
9. Page No : 4 of 12

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 06:50am - 06:50pm	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	67	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	20	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	4.47	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	13.91	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	3.93	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.47	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	0.85	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	BDL	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	2.75	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,
Report Status: - The measured values for the above parameters are within the standards.

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

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आफ्रीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Cooler Discharge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDC/ SS&PPL/A/21/12/10538
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	8 07:20am - 07:20pm	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	89	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	32	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	8.26	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	20.38	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	5.88	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	1.10	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.86	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.063	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WORKZONE AIR QUALITY

1. Name of the Station : Raw material Handling Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Unit II, Belagavi - 590015.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL /WA/21/12/10539
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 07:40am - 07:40am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.166	OSHA Method 0600	5 mg/m ³

Compliance status	As per OSHA Limits, Report Status: -The measured values for above parameters were observed to be within the said standards.
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End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.
ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफ्रीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WORKZONE AIR QUALITY

1. Name of the Station : Cooler Discharge Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Unit II, Belagavi - 590015.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Workzone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL /WA/21/12/10540
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 08:00am - 08:00am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.155	OSHA Method 0600	5 mg/m ³

Compliance
status

As per OSHA Limits,

Report Status: -The measured values for above parameters were observed to be within the said standards.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़िस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WORKZONE AIR QUALITY

1. Name of the Station : Near Crusher area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Unit II, Belagavi - 590015.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL /WA/21/12/10541
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 07:50am - 07:50am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.1760	OSHA Method 0600	5 mg/m ³

Compliance status	As per OSHA Limits, Report Status: -The measured values for above parameters were observed to be within the said standards.
-------------------	--

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़िस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WORKZONE AIR QUALITY

1. Name of the Station : Product Processing Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Unit II, Belagavi - 590015.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL /WA/21/12/10542
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	8 08:10am - 08:10am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.052	OSHA Method 0600	5 mg/m ³

Compliance status	As per OSHA Limits, Report Status: -The measured values for above parameters were observed to be within the said standards.
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End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़िस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Rotary Kiln 50 TPD
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/12/10549
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.12.2021
Ambient Temperature (°C)	27
Stack Temperature (°C)	139
Velocity (m/s)	7.89
Diameter (m)	1.2
Cross Sectional Area in meter square (m ²)	1.130
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	23370.83
Dust Emission rate of PM, Kg/hr	2.131

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	91.18	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	13.0	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	8.87	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़ीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Cooler Discharge
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/12/10543
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.12.2021
Ambient Temperature (°C)	25
Stack Temperature (°C)	46
Velocity (m/s)	6.25
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3343.61
Dust Emission rate of PM, Kg/hr	0.301

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	90.01	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	11.36	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	9.66	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़ीस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID
2. Name of the Industry : Iron ore Crushing & Screening
: M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/12/10544
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.12.2021
Ambient Temperature (°C)	24
Stack Temperature (°C)	38
Velocity (m/s)	6.11
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3339.31
Dust Emission rate of PM, Kg/hr	0.308

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	92.22	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	11.97	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	10.11	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़ीस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Product House
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/12/10545
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.12.2021
Ambient Temperature (°C)	25
Stack Temperature (°C)	51
Velocity (m/s)	6.67
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3511.32
Dust Emission rate of PM, Kg/hr	0.386

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	110.07	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	21.57	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	16.91	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़िस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 400 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/12/10546
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.12.2021
Ambient Temperature (°C)	27
Stack Temperature (°C)	142
Velocity (m/s)	7.75
Diameter (m)	0.1
Cross Sectional Area in meter square (m ²)	0.008
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	158.32
Dust Emission rate of PM, Kg/hr	0.016

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	100.96	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	14.90	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	10.81	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़ीस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 600 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/12/10547
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.12.2021
Ambient Temperature (°C)	28
Stack Temperature (°C)	152
Velocity (m/s)	8.04
Diameter (m)	0.15
Cross Sectional Area in meter square (m ²)	0.018
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	362.06
Dust Emission rate of PM, Kg/hr	0.038

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	104.23	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	15.48	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	11.50	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़ीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Intermediate Bin
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.12.2021
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : EHSRDCU2/ SS&PPL/S/21/12/10548
8. Report issued on : 21.12.2021
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.12.2021
Ambient Temperature (°C)	25
Stack Temperature (°C)	44
Velocity (m/s)	6.36
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3418.98
Dust Emission rate of PM, Kg/hr	0.349

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	101.99	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	12.78	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	10.63	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 13.12.2021
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,8002,8082,8084 & 8066
5. Date of Sample Receipt : 17.12.2021
6. Sample Number : EHSRDC/ SS&PPL/N/21/12/10550 - 10554
7. Report issued on : 21.12.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1

Code No	Sample Location	Time Frequency	Parameters in dB(A)		CPCB Std.
			Leq		
10550	Near Main Gate	06:40am-10:00pm	71.43		75.0 dB(A) - Day
10551	Near DG Room	06:55am-10:00pm	70.19		
10552	Near Cooler Discharge	07:25pm-10:00pm	66.77		
10553	Near Iron & Coal	07:35am-10:00pm	68.75		
10554	Near Weigh Bridge	06:55am-10:00pm	63.45		

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq} : It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq} denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

Compliance status	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
-------------------	---

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.
ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफ्रीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 13.12.2021
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,8002,8082,8084 & 8066
5. Date of Sample Receipt : 17.12.2021
6. Sample Number : EHSRDC/ SS&PPL/N/21/12/10550 - 10554
7. Report issued on : 21.12.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1

Code No	Sample Location	Time Frequency	Parameters in dB(A)	
			L_{eq}	CPCB Std.
10550	Near Main Gate	10:01pm - 6:00am	62.96	70.0 dB(A) - Night
10551	Near DG Room	10:01pm - 6:00am	59.37	
10552	Near Cooler Discharge	10:01pm - 6:00am	51.67	
10553	Near Iron & Coal	10:01pm - 6:00am	50.15	
10554	Near Weigh Bridge	10:01pm - 6:00am	47.62	

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq} : It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq} , denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

Compliance status	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
-------------------	---

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WATER QUALITY

1. Name of the Location : Industry Premises, Borewell water.
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Collection : 13.12.2021
5. Particulars of Sample Collected : Borewell water, Grab Sampling.
6. Date of Sample Receipt : 17.12.2021
7. Sample Number : 17.12.2021
8. Analysis started on : EHSRDC/SS&PPL/W/21/12/10555
9. Analysis Completed on : 17.12.2021
10. Report issued on : 21.12.2021
11. Page No. : 21.12.2021
12. Protocol : 1 of 1
: APHA 23rd Edition, IS Method

Sl. No	Parameters	Test Method	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					AL	PL
1.	pH	APHA 4500H+ B	--	7.28	6.5-8.5	NR
2.	Odour	IS 3025(Part 5):1983	--	Agreeable	Agreeable	
3.	Colour	IS 3025(Part 4):1983	Hazen	< 1	5	15
4.	Turbidity, Max	APHA 2130 B	NTU	0.40	1	5
5.	Total Dissolved Solids, Max	APHA 2540 C	mg/L	2380	500	2000
6.	Electrical Conductivity	APHA 2510 B	µs/cm	3430	Not Specified	
7.	Chloride as Cl, Max	APHA 4500-Cl B	mg/L	399.13	250	1000
8.	Sulphate as SO ₄ , Max	APHA 4500-SO42-E	mg/L	88.59	200	400
9.	Total Hardness, Max	APHA 2340 C	mg/L	890	200	600
10.	Calcium as Ca, Max	APHA 3500-Ca	mg/L	224	75	200
11.	Magnesium as Mg, Max	APHA 3500 Mg B	mg/L	80.19	30	100
12.	Iron as Fe, Max	APHA 3500-Fe B	mg/L	0.17	1	NR
13.	Fluoride as F, Max	APHA 4500F D	mg/L	1.16	1	1.5
14.	Nitrate as NO ₃	APHA 4500-NO3 E	mg/L	28.83	45	NR
15.	Residual Free Chlorine	APHA 4500 Cl B	mg/L	BDL	0.2	1.0
16.	Phenolic Compounds	APHA 5530 C	mg/L	BDL	0.001	0.002
17.	Cyanide	APHA 4500- CN D	mg/L	BDL	0.05	NR



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़ीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

Sample Number: EHSRDC/SS&PPL/W/21/12/10555
Page No: 02 of 02

18.	Salinity	APHA 2520 B				
19.	Sodium as Na	APHA 3500 Na B	mg/L	721.04	Not Specified	
20.	Potassium as K	APHA 3500 K	mg/L	372	Not Specified	
21.	Hexavalent Chromium as Cr+ 6	APHA 3500 Cr B	mg/L	1.6	Not Specified	
22.	Alkalinity as CaCO ₃ , Max	APHA 2320 B	mg/L	Not Detected	Not Specified	
23.	Boron as B, Max	APHA 4500 -B	mg/L	280	200	600
24.	Copper as Cu, Max	APHA 3111 B	mg/L	0.25	0.5	2.4
25.	Manganese as Mn, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.05	1.5
26.	Mercury as Hg, Max	IS 3025 (Part 48): 1994 RA 2014	mg/L	Not Detected	0.1	0.3
27.	Cadmium as Cd, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.001	NR
28.	Selenium as Se, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.003	NR
29.	Arsenic as As, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
30.	Lead as Pb, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
31.	Zinc as Zn, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
32.	Aluminum as Al, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	5	15
33.	Total Coliform	IS 15185:2016	Present/Absent/ 100ml	Not Detected	0.03	0.2
34.	E-Coli	IS 15185:2016	Present/Absent/ 100ml	Absent	Not Specified	
	Fecal Coliform	APHA 9222 D	Present/Absent/ 100ml	Absent	Absent	
			Present/Absent/ 100ml	Absent	Absent	

AL - Acceptable Limit, PL - Permissible Limit, NR- No Relaxation, BDL: Below detectable limit

Compliance status As per IS 10500:2012(Second Revision),
Report Status: -The measured values for the above parameters for those standards have been specified were observed to be within the said standards, except Total Dissolved Solids, Total Hardness & Calcium.

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.
ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफ्रीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Main Gate
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/SS&PPL/A/22/01/12297
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 08:40am - 08:40am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	76	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	27	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	6.16	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	20.45	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	5.69	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.91	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.88	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.014	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004


BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near DG Room
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/ A/22/01/12298
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 09:00am - 09:00am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	61	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	19	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	4.86	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	12.21	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	3.36	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.69	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.57	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.009	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Iron and Coal Screening
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/01/12299
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 09:20am - 09:20am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	66	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	21	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	4.61	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	14.81	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	4.19	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.57	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.24	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.007	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	IS:5182 (P26)-2020
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS: 5182 (P 11)-2006
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS:5182 (P 12)-2004
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report


ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Weigh Bridge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/01/12300
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards,2009	Protocol
Period of Sampling/Time		Hrs	24 08:50am - 08:50am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	88	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	35	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	8.34	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	25.56	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	7.02	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	1.05	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	2.16	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	BDL	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/m ³	2.82	20.0 (Annual Avg)	
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS:5182 (P26)-2020
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS: 5182 (P 11)-2006 IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status	As per NAAQ Standards, Report Status: - The measured values for the above parameters are within the standards. ***End of Report***
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(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station	:	Near Cooler Discharge
2. Name of the Project	:	M/s. Supra Steel & Power Pvt. Ltd. Sy. No. 276 & 280, Halkundi Village, Bellary - 583102.
3. Sample Collected by	:	M/s. Environmental Health and Safety Research & Development Centre Bangalore - 560 010.
4. Date of Monitoring	:	24.01.2022
5. Particulars of Sample Collected	:	Ambient Air collected through Fine Particulate Sampler - APM 550 Respirable Dust Sampler - 460NL
6. Date of Sample Receipt	:	29.01.2022
7. Sample Number	:	EHSRDC/ SS&PPL/A/22/01/12301
8. Report issued on	:	03.02.2022
9. Page No	:	1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 09:10am - 09:10am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	78	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	30	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	7.48	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	23.07	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	6.15	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.91	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	2.04	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.012	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS:5182 (P26)-2020
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS: 5182 (P 11)-2006 IS:5182 (P 12)-2004

BDL - Below Detectable Limit

Compliance status

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

भाफीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

1. Name of the Station : Raw material Handling Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL /WA/22/01/12302
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 09:30am - 09:30am	--	--
1.	Dust Concentration	mg/m ³	0.190	IS: 5182 (P2)	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report**ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING**

1. Name of the Station : Cooler Discharge Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL /WA/22/01/12303
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 09:50am - 09:50am	--	--
1.	Dust Concentration	mg/m ³	0.202	IS: 5182 (P2)	Not Specified

End of Report


(Thejaswi.N)
Government Analyst**Concern towards protecting Environment**

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

भाफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

1. Name of the Station : Near Crusher area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL /WA/22/01/12304
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 09:40am - 09:40am	--	--
1.	Dust Concentration	mg/m ³	0.307	IS: 5182 (P2)	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report**ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING**

1. Name of the Station : Product Processing Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL /WA/22/01/12305
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

Sl. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 10:00am - 10:00am	--	--
1.	Dust Concentration	mg/m ³	0.139	IS: 5182 (P2)	Not Specified

End of Report


(Thejaswi.N)
Government Analyst**Concern towards protecting Environment**

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Cooler Discharge
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/S/22/01/12306
8. Report issued on : 03.02.2022
9. Page No : 1 of 1


GENERAL DETAILS

Date of Monitoring	24.01.2022
Ambient Temperature (°C)	25
Stack Temperature (°C)	46
Velocity (m/s)	6.23
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3328.51
Dust Emission rate of PM, Kg/hr	0.190

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	57.22	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	16.48	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	12.07	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Iron ore Crushing & Screening
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/S/22/01/12307
8. Report issued on : 03.02.2022
9. Page No : 1 of 1


GENERAL DETAILS

Date of Monitoring	24.01.2022
Ambient Temperature (°C)	24
Stack Temperature (°C)	43
Velocity (m/s)	6.13
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3297.51
Dust Emission rate of PM, Kg/hr	0.155

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	47.10	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	15.22	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	8.56	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Product House
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/S/22/01/12308
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	24.01.2022
Ambient Temperature (°C)	24
Stack Temperature (°C)	40
Velocity (m/s)	6.04
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3277.18
Dust Emission rate of PM,Kg/hr	0.165

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	50.29	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	18.82	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	13.98	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 400 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/S/22/01/12309
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	24.01.2022
Ambient Temperature (°C)	25
Stack Temperature (°C)	144
Velocity (m/s)	7.39
Diameter (m)	0.1
Cross Sectional Area in meter square (m ²)	0.008
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	149.32
Dust Emission rate of PM, Kg/hr	0.010

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	68.36	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	20.87	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	14.53	Not Specified

End of Report

(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफ़ीस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 600 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/01/12310
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	24.01.2022
Ambient Temperature (°C)	27
Stack Temperature (°C)	148
Velocity (m/s)	7.93
Diameter (m)	0.15
Cross Sectional Area in meter square (m ²)	0.018
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	359.48
Dust Emission rate of PM, Kg/hr	0.023

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	62.68	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	24.17	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	15.98	Not Specified

End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Intermediate Bin
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDCU2/ SS&PPL/S/22/01/12311
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	24.01.2022
Ambient Temperature (°C)	24
Stack Temperature (°C)	39
Velocity (m/s)	5.83
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3176.85
Dust Emission rate of PM,Kg/hr	0.176

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	55.4	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	15.97	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	*mg/Nm ³	12.07	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

भाफीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Rotary Kiln 50 TPD
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 24.01.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 29.01.2022
7. Sample Number : EHSRDC/ SS&PPL/S/22/01/12312
8. Report issued on : 03.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	24.01.2022
Ambient Temperature (°C)	26
Stack Temperature (°C)	147
Velocity (m/s)	7.52
Diameter (m)	1.2
Cross Sectional Area in meter square (m ²)	1.130
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	21797.0
Dust Emission rate of PM, Kg/hr	0.835

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	38.33	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	15.18	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	10.19	Not Specified

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 24.01.2022
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,8002,8082,8084 & 8066
5. Date of Sample Receipt : 29.01.2022
6. Sample Number : EHSRDC/ SS&PPL/N/22/01/12313 - 12317
7. Report issued on : 03.02.2022
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1


Code No	Sample Location	Time Frequency	Parameters in dB(A)	CPCB Std.
			L_{eq}	
12313	Near Main Gate	08:45am to 10:00pm	69.98	75.0 dB(A) - Day
12314	Near DG Room	09:05am to 10:00pm	68.56	
12315	Near Cooler Discharge	09:15am to 10:00pm	69.55	
12316	Near Iron & Coal	09:25am to 10:00pm	65.70	
12317	Near Weigh Bridge	08:55am to 10:00pm	64.15	

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq} : It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq} , denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

Compliance status	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
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End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 24.01.2022
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,8002,8082,8084 & 8066
5. Date of Sample Receipt : 29.01.2022
6. Sample Number : EHSRDC/ SS&PPL/N/22/01/12313 - 12317
7. Report issued on : 03.02.2022
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1

Code No	Sample Location	Time Frequency	Parameters in dB(A)		CPCB Std.
			L _{eq}		
12313	Near Main Gate	10:01pm to 6:00am	58.36		70.0 dB(A) - Night
12314	Near DG Room		55.01		
12315	Near Cooler Discharge		53.88		
12316	Near Iron & Coal		52.51		
12317	Near Weigh Bridge		49.93		

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq}: It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq}, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

Compliance status	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
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End of Report


(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

भाफीस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF WATER QUALITY

- | | |
|------------------------------------|---|
| 1. Name of the Location | : Industry Premises, Borewell water. |
| 2. Name of the Project | : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102. |
| 3. Sample Collected by | : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010. |
| 4. Date of Collection | : 24.01.2022 |
| 5. Particulars of Sample Collected | : Borewell water, Grab Sampling. |
| 6. Date of Sample Receipt | : 29.01.2022 |
| 7. Sample Number | : EHSRDC/SS&PPL/W/22/01/12318 |
| 8. Analysis started on | : 29.01.2022 |
| 9. Analysis Completed on | : 03.02.2022 |
| 10. Report issued on | : 03.02.2022 |
| 11. Page No. | : 1 of 1 |
| 12. Protocol | : APHA 23 rd Edition, IS Method |

Sl.No	Parameters	Test Method	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					AL	PL
1.	pH	APHA 4500H+ B	--	8.11	6.5-8.5	NR
2.	Odour	IS 3025(Part 5):1983	--	Agreeable	Agreeable	
3.	Colour	IS 3025(Part 4):1983	Hazen	< 1	5	15
4.	Turbidity, Max	APHA 2130 B	NTU	0.54	1	5
5.	Total Dissolved Solids, Max	APHA 2540 C	mg/L	2174	500	2000
6.	Electrical Conductivity	APHA 2510 B	µs/cm	3410	Not Specified	
7.	Chloride as Cl, Max	APHA 4500-Cl B	mg/L	451.66	250	1000
8.	Sulphate as SO ₄ , Max	APHA 4500-SO ₄ -E	mg/L	176.44	200	400
9.	Total Hardness, Max	APHA 2340 C	mg/L	730	200	600
10.	Calcium as Ca, Max	APHA 3500-Ca	mg/L	160	75	200
11.	Magnesium as Mg, Max	APHA 3500 Mg B	mg/L	80.19	30	100
12.	Iron as Fe, Max	APHA 3500-Fe B	mg/L	BDL	1	NR
13.	Fluoride as F, Max	APHA 4500F D	mg/L	0.98	1	1.5
14.	Nitrate as NO ₃	APHA 4500-NO ₃ E	mg/L	26.65	45	NR
15.	Residual Free Chlorine	APHA 4500 Cl B	mg/L	BDL	0.2	1.0
16.	Phenolic Compounds	APHA 5530 C	mg/L	BDL	0.001	0.002
17.	Cyanide	APHA 4500- CN D	mg/L	BDL	0.05	NR



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

भाफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

Sample Number: EHSRDC/SS&PPL/W/22/01/12318
Page No: 02 of 02

18.	Salinity	APHA 2520 B	mg/L	815.9	Not Specified	
19.	Sodium as Na	APHA 3500 Na B	mg/L	324	Not Specified	
20.	Potassium as K	APHA 3500 K	mg/L	16	Not Specified	
21.	Hexavalent Chromium as Cr ⁶⁺	APHA 3500 Cr B	mg/L	Not Detected	Not Specified	
22.	Alkalinity as CaCO ₃ , Max	APHA 2320 B	mg/L	250	200	600
23.	Boron as B, Max	APHA 4500 -B	mg/L	0.29	0.5	1.0
24.	Copper as Cu,Max	APHA 3111 B	mg/L	Not Detected	0.05	1.5
25.	Manganese as Mn, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.1	0.3
26.	Mercury as Hg,Max	IS 3025 (Part 48): 1994 RA 2014	mg/L	Not Detected	0.001	NR
27.	Cadmium as Cd,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.003	NR
28.	Selenium as Se, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
29.	Arsenic as As,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
30.	Lead as Pb,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
31.	Zinc as Zn,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	5	15
32.	Aluminum as Al, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.03	0.2
33.	Total Coliform	IS 15185:2016	Present/Absent/ 100ml	Absent	Not Specified	
34.	E-Coli	IS 15185:2016	Present/Absent/ 100ml	Absent	Absent	
35.	Fecal Coliform	APHA 9222 D	Present/Absent/ 100ml	Absent	Absent	

AL - Acceptable Limit, PL - Permissible Limit, NR- No Relaxation, BDL: Below detectable limit

Compliance
status

As per IS 10500:2012(Second Revision),

Report Status: -The measured values for the above parameters for those standards have been specified were observed to be within the said standards, except Total Dissolved Solids & Total Hardness.

End of Report



(Thejaswi.N)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf



ENVIRONMENTAL HEALTH AND SAFETY RESEARCH AND DEVELOPMENT CENTRE

(Recognised under section 12 of the Environment (Protection) Act, 1986) New Delhi.

ಏನ್ವಿರಾನ್‌ಮೆಂಟಲ್ ಹೆಲ್ತ್ ಅಂಡ್ ಸೇಫ್ಟಿ ರಿಸರ್ಚ್ ಅಂಡ್ ಡೆವಲಪ್‌ಮೆಂಟ್ ಸೆಂಟರ್
(ಪರಿಸರ (ಸಂರಕ್ಷಣಾ) ಕಾಯ್ದೆ 1986 ರ ಕಲಂ 12 ರಲ್ಲಿ ಮಾನ್ಯತೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯ) ನವ ದೆಹಲಿ.

ಏನ್‌ವಾಯರ್ಮೆಂಟಲ್ ಹೆಲ್ತ್ ಅಂಡ್ ಸೇಫ್ಟಿ ರಿಸರ್ಚ್ ಅಂಡ್ ಡೆವಲಪ್‌ಮೆಂಟ್ ಸೆಂಟರ್
(पर्यावरण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की धारा मान्यता प्राप्त प्रयोगशाला) न्यू दिल्ली.

ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

- Name of the Station : Near DG Room
- Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
- Sample Collected by : M/s. Environmental Health and Safety Research
& Development Centre Bangalore - 560 010.
- Date of Monitoring : 13.02.2022
- Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
- Date of Sample Receipt : 15.02.2022
- Sample Number : EHSRDC/ SS&PPL/ A/22/02/13115
- Report issued on : 19.02.2022
- Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 07:50am - 07:50am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	80	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	28	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	6.75	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	21.71	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	6.18	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	1.18	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	2.11	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.010	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

INFERENCE	As per NAAQ Standards, Report Status: - The measured values for the above parameters are within the standards.
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End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Iron and Coal Screening
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/02/13116
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
	Period of Sampling/Time	Hrs	24 08:10am - 08:10am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	58	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	17	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	4.08	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	11.31	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	3.42	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/ m ³	0.51	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.36	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.010	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/ m ³	BDL	6.0 (Annual Average)	IS:5182 (P26)-2020
10.	Nickel (Ni)	ng/ m ³	BDL	20.0 (Annual Avg)	IS: 5182 (P 11)-2006
11.	Benzene (C ₆ H ₆)	µg/ m ³	BDL	5.0 (Annual Average)	IS:5182 (P 12)-2004
12.	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	1.0 (Annual Average)	

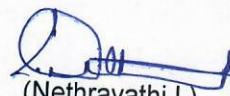
BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report



(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

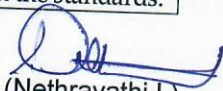
1. Name of the Station : Near Weigh Bridge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/02/13117
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	24 07:40am - 07:40am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	71	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	23	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	6.11	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	18.43	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	5.35	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/m ³	0.83	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.85	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	BDL	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/m ³	BDL	6.0 (Annual Average)	
10.	Nickel (Ni)	ng/m ³	BDL	20.0 (Annual Avg)	IS:5182 (P26)-2020
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5.0 (Annual Average)	IS: 5182 (P 11)-2006
12.	Benzo (a) Pyrene (BaP)	ng/m ³	BDL	1.0 (Annual Average)	IS:5182 (P 12)-2004

BDL - Below Detectable Limit

INFERENCE As per NAAQ Standards,
Report Status: - The measured values for the above parameters are within the standards.

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name of the Station : Near Cooler Discharge
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Ambient Air collected through
Fine Particulate Sampler - APM 550
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDC/ SS&PPL/A/22/02/13118
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	NAAQ Standards, 2009	Protocol
Period of Sampling/Time		Hrs	8 08:00am - 08:00am	24	--
1.	Particulate Matter (PM ₁₀)	µg/ m ³	69	100	IS: 5182 (P 23)-2006
2.	Particulate Matter (PM _{2.5})	µg/ m ³	18	60	IS: 5182 (P 24)-2019
3.	Sulphur Dioxide (SO ₂)	µg/ m ³	5.80	80	IS: 5182 (P2)-2001
4.	Nitrogen Dioxide (NO ₂)	µg/ m ³	14.86	80	IS: 5182 (P6)-2006
5.	Ammonia (NH ₃)	µg/ m ³	4.62	400.0 (24 hr Average)	IS: 5182 (P 25)-2018
6.	Carbon Monoxide (CO)	mg/m ³	0.72	4.0 (1 hr Average)	IS 5182 (Part 10) : 1999
7.	Ozone (O ₃)	µg/ m ³	1.61	180 (1 hr Average)	Instrument method
8.	Lead (Pb)	µg/ m ³	0.017	1.0 (24 hr Average)	Lab-SOP No. EHSRDC Unit-II/SOP/AAS/001 based on CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-I
9.	Arsenic (As)	ng/m ³	BDL	6.0 (Annual Average)	IS:5182 (P26)-2020
10.	Nickel (Ni)	ng/m ³	BDL	20.0 (Annual Avg)	IS: 5182 (P 11)-2006
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5.0 (Annual Average)	IS:5182 (P 12)-2004
12.	Benzo (a) Pyrene (BaP)	ng/m ³	BDL	1.0 (Annual Average)	

BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

End of Report


(Netravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report**ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING**

1. Name of the Station : Raw material Handling Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/ SS&PPL /WA/22/02/13119
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 08:25am - 08:25am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.243	IS: 5182 (P2)	Not Specified

End of Report


(Nethravathi.L)

Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

1. Name of the Station : Cooler Discharge Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research
& Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/SS&PPL /WA/22/02/13120
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 08:45am - 08:45am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.351	IS: 5182 (P2)	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report**ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING**

1. Name of the Station : Near Crusher area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research
& Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/SS&PPL/WA/22/02/13121
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	24 08:35am - 08:35am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.493	IS: 5182 (P2)	Not Specified

End of Report


(Nethravathi.L)

Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

1. Name of the Station : Product Processing Area
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety
Research & Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Work zone Air Sample collected through
Respirable Dust Sampler - 460NL
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/SS&PPL/WA/22/02/13122
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

SI. No	Parameters	Unit	Results	Method	OSHA Limits
	Period of sampling / Time	Hrs	8 8:55am - 8:55am	--	--
1.	Dust Concentration (Respirable Suspended Particulate Matter).	mg/m ³	0.208	IS: 5182 (P2)	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report**ANALYSIS REPORT FOR SOURCE EMISSION**

1. Stack ID : Cooler Discharge
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/02/13123
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.02.2022
Ambient Temperature (°C)	32
Stack Temperature (°C)	62
Velocity (m/s)	6.94
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3613.95
Dust Emission rate of PM, Kg/hr	0.175

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	48.39	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	14.93	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	9.17	Not Specified

End of Report


(Nethravathi.L)
Government Analyst**Concern towards protecting Environment**

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Iron ore Crushing & Screening
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/ SS&PPL/S/22/02/13124
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.02.2022
Ambient Temperature (°C)	32
Stack Temperature (°C)	51
Velocity (m/s)	6.87
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3702.94
Dust Emission rate of PM, Kg/hr	0.135

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	36.33	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	12.32	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	7.42	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Product House
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/ SS&PPL/S/22/02/13125
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.02.2022
Ambient Temperature (°C)	32
Stack Temperature (°C)	49
Velocity (m/s)	6.80
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3686.18
Dust Emission rate of PM,Kg/hr	0.167

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	45.17	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	16.92	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	12.14	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 400 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/ SS&PPL/S/22/02/13126
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.02.2022
Ambient Temperature (°C)	32
Stack Temperature (°C)	158
Velocity (m/s)	8.03
Diameter (m)	0.1
Cross Sectional Area in meter square (m ²)	0.008
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	160.54
Dust Emission rate of PM,Kg/hr	0.010

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	60.69	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	17.21	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	13.40	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : DG set 600 KVA
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/02/13127
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.02.2022
Ambient Temperature (°C)	32
Stack Temperature (°C)	157
Velocity (m/s)	7.79
Diameter (m)	0.15
Cross Sectional Area in meter square (m ²)	0.018
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	351.23
Dust Emission rate of PM,Kg/hr	0.021

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	58.51	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	21.56	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	12.87	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Intermediate Bin
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/02/13128
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.02.2022
Ambient Temperature (°C)	32
Stack Temperature (°C)	56
Velocity (m/s)	6.75
Diameter (m)	0.45
Cross Sectional Area in meter square (m ²)	0.159
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3580.70
Dust Emission rate of PM,Kg/hr	0.195

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	54.37	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	13.48	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	10.88	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

ANALYSIS REPORT FOR SOURCE EMISSION

1. Stack ID : Rotary Kiln 50 TPD
2. Name of the Industry : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
4. Date of Monitoring : 13.02.2022
5. Particulars of Sample Collected : Emissions from stack collected through
Stack Sampler VSS1
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDCU2/SS&PPL/S/22/02/13129
8. Report issued on : 19.02.2022
9. Page No : 1 of 1

GENERAL DETAILS

Date of Monitoring	13.02.2022
Ambient Temperature (°C)	32
Stack Temperature (°C)	158
Velocity (m/s)	8.16
Diameter (m)	1.2
Cross Sectional Area in meter square (m ²)	1.130
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	23512.32
Dust Emission rate of PM,Kg/hr	1.087

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Tolerance Limit
Particulate Matter	IS: 11255, (Part 1)	mg/Nm ³	46.24	Not Specified
Oxides of Nitrogen as NO ₂	IS: 11255, (Part 7)	mg/Nm ³	19.12	Not Specified
Sulphur Dioxide as SO ₂	IS: 11255, (Part 2)	mg/Nm ³	12.34	Not Specified

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 13.02.2022
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,665574,8082,8084 & 8066
5. Date of Sample Receipt : 15.02.2022
6. Sample Number : EHSRDC/SS&PPL/N/22/02/13130 - 13134
7. Report issued on : 19.02.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1

Code No	Sample Location	Time Frequency	Parameters in dB(A)		CPCB Std.
			L _{eq}		
13130	Near Main Gate	07:35am-10:00pm	68.11		75.0 dB(A) - Day
13131	Near DG Room	07:45am-10:00pm	70.57		
13132	Near Cooler Discharge	07:55am-10:00pm	71.55		
13133	Near Iron & Coal	08:05am-10:00pm	67.40		
13134	Near Weigh Bridge	08:20am-10:00pm	66.10		

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq}: It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq}, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

INFERENCE

As per CPCB Standards,

Report Status: -The measured values for the above locations are within the standards.

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
2. Sample Collected by : M/s. Environmental Health and Safety Research &
Development Centre Bangalore - 560 010.
3. Date of Monitoring : 13.02.2022
4. Particulars of Sample Collected : Ambient Noise Level collected through
Sound Level Meter EQ-7979,665574,8082,8084 & 8066
5. Date of Sample Receipt : 15.02.2022
6. Sample Number : EHSRDC/ SS&PPL/N/22/02/13130 - 13134
7. Report issued on : 19.02.2021
8. Method Adopted : CPCB Guidelines (Instrument Method).
9. Page No : 1 of 1


Code No	Sample Location	Time Frequency	Parameters in dB(A)	CPCB Std.
			L _{eq}	
13130	Near Main Gate	10:01pm - 6:00am	55.33	70.0 dB(A) - Night
13131	Near DG Room	10:01pm- 6:00am	59.56	
13132	Near Cooler Discharge	10:01pm - 6:00am	60.57	
13133	Near Iron & Coal	10:01pm - 6:00am	56.19	
13134	Near Weigh Bridge	10:01pm - 6:00am	54.38	

Note:

- Day Time is reckoned between 6.00 A.M and 10.00 P.M
- Night Time is reckoned between 10.00 P.M and 6.00 A.M
- L_{eq}: It is energy mean of the noise level over a specified period.
- *dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{eq}, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

INFERENCE	As per CPCB Standards, Report Status: -The measured values for the above locations are within the standards.
------------------	---

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.

ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलूर - 560 010

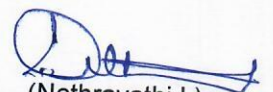
See NOTE overleaf

Test Report

ANALYSIS REPORT OF WATER QUALITY

1. Name of the Location : Industry Premises, Borewell water.
2. Name of the Project : M/s. Supra Steel & Power Pvt. Ltd.
Sy. No. 276 & 280, Halkundi Village,
Bellary - 583102.
3. Sample Collected by : M/s. Environmental Health and Safety Research
& Development Centre Bangalore - 560 010.
4. Date of Collection : 13.02.2022
5. Particulars of Sample Collected : Borewell water, Grab Sampling.
6. Date of Sample Receipt : 15.02.2022
7. Sample Number : EHSRDC/SS&PPL/W/22/02/13135
8. Analysis started on : 15.02.2022
9. Analysis Completed on : 19.02.2022
10. Report issued on : 19.02.2022
11. Page No. : 1 of 1
12. Protocol : APHA 23rd Edition, IS Method

Sl.No	Parameters	Test Method	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					AL	PL
1.	pH	APHA 4500H+ B	--	7.47	6.5-8.5	NR
2.	Odour	IS 3025(Part 5):1983	--	Agreeable	Agreeable	
3.	Colour	IS 3025(Part 4):1983	Hazen	< 1	5	15
4.	Turbidity, Max	APHA 2130 B	NTU	0.50	1	5
5.	Total Dissolved Solids, Max	APHA 2540 C	mg/L	1800	500	2000
6.	Electrical Conductivity	APHA 2510 B	µs/cm	2760	Not Specified	
7.	Chloride as Cl, Max	APHA 4500-Cl B	mg/L	505.09	250	1000
8.	Sulphate as SO ₄ , Max	APHA 4500-SO42-E	mg/L	158.92	200	400
9.	Total Hardness, Max	APHA 2340 C	mg/L	510	200	600
10.	Calcium as Ca, Max	APHA 3500-Ca	mg/L	168	75	200
11.	Magnesium as Mg, Max	APHA 3500 Mg B	mg/L	21.87	30	100
12.	Iron as Fe, Max	APHA 3500-Fe B	mg/L	BDL	1	NR
13.	Fluoride as F, Max	APHA 4500F D	mg/L	0.44	1	1.5
14.	Nitrate as NO ₃	APHA 4500-NO3 E	mg/L	28.25	45	NR
15.	Residual Free Chlorine	APHA 4500 Cl B	mg/L	BDL	0.2	1.0
16.	Phenolic Compounds	APHA 5530 C	mg/L	BDL	0.001	0.002
17.	Cyanide	APHA 4500- CN D	mg/L	BDL	0.05	NR


(Nethravathi. L)
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आफिस : सं 13/2, पहली मुख्य सड़क, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

Test Report

Sample Number: EHSRDC/SS&PPL/W/22/02/13135

Page No: 02 of 02

18.	Salinity	APHA 2520 B				
19.	Sodium as Na	APHA 3500 Na B	mg/L	912.5	Not Specified	
20.	Potassium as K	APHA 3500 K	mg/L	320	Not Specified	
21.	Hexavalent Chromium as Cr+ 6	APHA 3500 Cr B	mg/L	1.6	Not Specified	
22.	Alkalinity as CaCO ₃ , Max	APHA 2320 B	mg/L	Not Detected	Not Specified	
23.	Boron as B, Max	APHA 4500 -B	mg/L	280	200	600
24.	Copper as Cu,Max	APHA 3111 B	mg/L	0.82	0.5	1.0
25.	Manganese as Mn, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.05	1.5
26.	Mercury as Hg,Max	IS 3025 (Part 48): 1994 RA 2014	mg/L	Not Detected	0.1	0.3
27.	Cadmium as Cd,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.001	NR
28.	Selenium as Se, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.003	NR
29.	Arsenic as As,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
30.	Lead as Pb,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
31.	Zinc as Zn,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
32.	Aluminum as Al, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	5	15
33.	Total Coliform	IS 15185:2016	Present/Absent/ 100ml	Absent	0.03	0.2
34.	E-Coli	IS 15185:2016	Present/Absent/ 100ml	Absent	Not Specified	
35.	Fecal Coliform	APHA 9222 D	Present/Absent/ 100ml	Absent	Absent	

AL - Acceptable Limit, PL - Permissible Limit, NR- No Relaxation, BDL: Below detectable limit

INFERENCE As per IS 10500:2012(Second Revision),
Report Status: -The measured values for the above parameters for those standards have been specified
were observed to be within the said standards.

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

Office Address : No.13/2, 1st Main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore - 560 010.
ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010
आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf

Test Report

Sample Number: EHSRDC/SS&PPL/W/22/02/13135

Page No: 02 of 02

18.	Salinity	APHA 2520 B				
19.	Sodium as Na	APHA 3500 Na B	mg/L	912.5	Not Specified	
20.	Potassium as K	APHA 3500 K	mg/L	320	Not Specified	
21.	Hexavalent Chromium as Cr+ 6	APHA 3500 Cr B	mg/L	1.6	Not Specified	
22.	Alkalinity as CaCO ₃ , Max	APHA 2320 B	mg/L	Not Detected	Not Specified	
23.	Boron as B, Max	APHA 4500 -B	mg/L	280	200	600
24.	Copper as Cu,Max	APHA 3111 B	mg/L	0.82	0.5	1.0
25.	Manganese as Mn, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.05	1.5
26.	Mercury as Hg,Max	IS 3025 (Part 48): 1994 RA 2014	mg/L	Not Detected	0.1	0.3
27.	Cadmium as Cd,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.001	NR
28.	Selenium as Se, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.003	NR
29.	Arsenic as As,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
30.	Lead as Pb,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
31.	Zinc as Zn,Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	0.01	NR
32.	Aluminum as Al, Max	IS 3025 (Part 2): 2004 RA 2014	mg/L	Not Detected	5	15
33.	Total Coliform	IS 15185:2016	Present/Absent/ 100ml	Absent	0.03	0.2
34.	E-Coli	IS 15185:2016	Present/Absent/ 100ml	Absent	Not Specified	
35.	Fecal Coliform	APHA 9222 D	Present/Absent/ 100ml	Absent	Absent	

AL - Acceptable Limit, PL - Permissible Limit, NR- No Relaxation, BDL: Below detectable limit

INFERENCE

As per IS 10500:2012(Second Revision),

Report Status: -The measured values for the above parameters for those standards have been specified were observed to be within the said standards.

End of Report


(Nethravathi.L)
Government Analyst

Concern towards protecting Environment

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ಕಛೇರಿ ವಿಳಾಸ : ನಂ. 13/2, 1ನೇ ಮುಖ್ಯರಸ್ತೆ, ಅಗ್ನಿಶಾಮಕ ಕಛೇರಿ ಹತ್ತಿರ, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಟೌನ್, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು - 560 010

आफिस : सं 13/2, पहली मुख्य सडक, फायर स्टेशन के पास, इंडस्ट्रीयल टाऊन, राजाजीनगर, बेंगलोर - 560 010

See NOTE overleaf