RAJIV GANDHI THERMAL POWER PLANT, KHEDAR, HISAR
(A UNIT OF HARYANA POWER GENERATION CORPORATION LIMITED)
(Regd. Office – Urja Bhawan, C-7, Sector- 6, Panchkula)
COMPANY IDENTITY NUMBER: U45207HR1997SGC033517
HPGCL **Website: www.hpgcl.gov.in** **E-mail: xenenvash.rgtpp@hpgcl.org.in**
Mob No. 8222820043

From

Chief Engineer/ RGTPP
RGTPP, HPGCL, Khedar,
Hisar

To

The Environmental Engineer (HQ),
Haryana State Pollution Control Board, PANCHKULA
Plot No.11, Sector-6,

Memo no. ch-24/XEN/Env/F-218/Vol-1 **Dated: 25.09.2026**

Subject : Submission of Environment Statement for the year ended 31st March, 2026.

Dear Sir,

Please find enclosed herewith the Environment Statement for the above mentioned period as Rule 14 of Environmental Protection Act 1986 in Form-V. We hope you will find the same in order.

Thanking You,

XEN/Environment,
For Chief Engineer/ RGTPP
HPGCL, Khedar

CC:-

The Regional Officer,
Haryana State Pollution Control Board,
Bay No.7-8, Near Vishwash Sr. Sec. School,
Urban Estate-II, Hisar.

FORM V
(SEE RULE-14)

Environment Statement for the financial year April 2025 to March 2026
PART – A

i	Name and address of the owner / occupier of the operation or process.	Chief Engineer RGTPP, HPGCL, Khedar, Hisar
Ii	Industry category prime ……. (STC Code) Secondary …….. (SIC Code) Registration no.	HSR/R-109
iii	Production capacity	1200 MW
iv	Year of establishment	Unit-I – 600 MW – 24.08.2010 Unit-I – 600 MW – 01.03.2011
v	Date of the last environmental statement submitted	29/09/2025

PART-B

1. WATER CONSUMPTION

Process / Cooling = 26776 MT/Day
Domestic / Portable = 1425 MT/Day

Sr. No.	Name of Products	Process Water consumption per unit of product output	
		During the previous F.Y. 2024-2025	During the F.Y.2025- 2026
1.	Electricity	2.11 LTR/UNIT	2.106 LTR/UNIT

2. RAW MATERIAL CONSUMPTION.

Sr. No.	**Name of Material**	**Name of Products**	**Consumption of Raw Material per unit of output**	
			During the previous FY 2024-2025	During the previous FY from April, 2025 to March, 2026
1.	Coal	Electricity	0.731 Kg/unit	0.742 Kg/unit
2.	Oil	Electricity	0.849 ml /unit	0.735 ml /unit

3. CHEMICAL CONSUMPTION GIVEN BELOW

Sr. No	**Name of the Material**	**Consumption Annual for the year from 01.04.2024 to 31.03.2025**	**Consumption Annual for the year from 01.04.2025 to 31.03.2026**
1.	Hydrochloride Acid	**521.2 MT**	**517 MT**
2.	Caustic Soda Lye	**340.6 MT**	**369 MT**
3.	Ferric Alum	**69.6 MT**	**51 MT**
4.	Caustic Soda Flakes	**636 Kg**	**1641 Kg**
5.	Ammonia	**67050 Ltr**	**48475 Ltr**
6.	Tri-Sodium Phosphate	**391 Kg**	**565 Kg**
7.	Chlorine	**135.76 MT**	**104 MT**
8.	Hydrated Lime	**1.89 MT**	**3.5 MT**

9.	Sulphuric Acid	**282.9 MT**	**226 MT**
10.	PAC	**11300 Kg**	**11910 Kg**
11.	Scale Inhibitor-	**11107 Kg**	**3280 Kg**
12.	Bio Dispersant	**5040 Kg**	**2415 Kg**
23.	Biocide	**Nil**	**1750 Kg**
14.	Bleaching	**Nil**	**Nil**
15.	Corrosion Inhibnitor-1	**13004.8 Kg**	**6560 Kg**
16.	Corrosion Inhibnitor-2	**5551.5 Kg**	**-**

PART – C

Pollutants	Quantity of Pollutants Discharged (mass / day)	Concentration of pollutants in discharge (mass/volume)	% age of violation from described Standards with reasons
Water	As per attached Reports	Report of test result of March-2026 attached as Annexure-A	
Air	As per attached Reports	Report of test result of March-2026 attached as Annexure-B	

PART – D

Hazardous waste

As specified under Hazardous and. Other Wastes (Management and Transboundary Movement) Rules, 2016.

Hazardous wastes	Total quantity (Kg) Sold		Remarks
	During the previous financial year from April 2024 to March 2025	During the financial year from April 2025 to March 2026.	
g. From process i**.** Dirty Oil filled with sludge	21.02 MT	24.715 MT	
ii Dirty T/F Oil	--------	----------	
Iii Old battery scrap	3.35 MT	1.12 MT	**New Batteries was replaced with old scrap battery**
Pollution Control facilities	ESP' s have been provided in unit - I & II	ESP' s have been provided in unit - I & II	

PART –E

Solid waste

Solid waste	Total quantity (Kg)	
	During the previous financial year April 2024 to March 2025	During the financial year April 2025 to March 2026
a. Form process	Ash Generated 1781465 MT	Ash Generated 1413216.21 MT
b. Pollution Control facilities	ESP have been installed in Unit – I & II	ESP have been installed in Unit - I & II

c. 1. Quantity recycled or re-utilized within the unit 2. Sold 3. The fly ash generated stored in ash pond in slurry from through pipes	**1.** a. Fly Ash generated 1425172.65 MT b. Bottom ash generated 356293.16 MT c. Fly Ash utilized 920782.59 MT d. Pond ash utilized 507548.53 MT 2. DFA-920782.59 MT & Pond Ash-507548.53 MT 3. 353135 MT ash stored in ash Pond through slurry pipes.	**1.** a. Fly Ash generated 1130572.97 MT b. Bottom ash generated 282643.24 MT c. Fly Ash utilized 846187.28 MT d. Pond Ash utilized 363758.62 MT **2.** DFA-846187.28 MT & Pond Ash-363758.62 MT **3.** 203270 MT ash stored in ash Pond through slurry pipes.

PART – F

Please specify the characterization (in term of composition of quantum) of hazardous as well as solid waste and indicate disposal practice adopted for both these categories of wastes	a. Hazardous waste generated in from of dirty oil/ transformer oil, battery scrap and dry cell scrap are stored in shed on pucca floor with proper ventilation and disposed off through NIT to the authorized firms duly approved by CPCB/HSPCB. b. Dry Fly Ash is collected in silos/ hoppers installed in units and are disposed off in the capsule type containers. Pond ash is carried into Ash Ponds in wet condition through pipes.

PART – G

Impact of the pollution abatement measures taken for conservation of natural resources and on the cost of production.

Natural resources fully conserved by taking proper measures.

Measures for control of pollution being taken by RGTPP are attached as Annexure-1 with this form.

PART – H

Additional measures. Investment proposal for environmental protection including abetment of pollution, prevention of pollution.

1. Trees will be planted in various areas.
2. Regular maintenance of already installed system will be done.

PART – I

Any other particulars for improving the quality of the environment.

Necessary measures are taken as suggested by M.O.E & F, CPCB & HSPCB from time to time.

Additional information required for Environment Statement

1. Methods of waste prevention:
   i. Alternate Raw material or replacement of toxic material.
   ii. Cleaner Technology.
2. Method of waste reduction- 3R Policy.
3. Mass balance in flow chart indicating raw material, products, solid, liquid and gases.
4. Environmental sound layout.
5. Maintained of Ecological balance by compensatory methods.

a. Tree plantation:

Name of species	No. of Plants in 2025-26	Age of Plant
Pink Kaner ,Red, Sandalwood Amla, Mango Jamun, Leshwa, Sahtoot, Neem Arjun, Shisham.	510	1-3 yrs.

b. Plan for future tree plantation 5000 per year.
c. Utilization of organic waste or manure. Organic waste is being used for Parks.
d. Utilization of Bio- Pesticides for manure.

Documents attached.

1. Measures for control of pollution being taken by RGTPP- **Annexure-1**
2. Copy of ISO 9001:2015 -**Annexure-2.**
3. Copy of ISO 14001:2015 -**Annexure-3.**
4. Copy of ISO 45001:2018 -**Annexure-4.**
5. Copy of Test result of stack emissions, air and water effluents.- **Annexure-5.**
6. Photographs of Sprinkler Systems, Tyre Washing Facility, Tree Plantation, Green Belt etc. **Annexure-6.**

Annexure – 1

Measure taken for Environmental Pollution in respect of RGTPP, HPGCL, Khedar,Hisar

1. RGTPP has its own Environment Cell which deals with regular monitoring of environment related parameters of the plant and reporting of the same to HSPCB/CPCB and other nodal authorities. The cell also monitors the compliance of the conditions of Environment Clearance issued to the plant and ensures submission of the 6 monthly compliance report to the MoEFCC.
2. Dedicated Green belt has been maintained at RGTPP as per the mandate of MoEF&CC. Plantation drives are also regularly organized at RGTPP.
3. Following environmental pollution mitigation activities are regularly carried out at RGTPP:
    a. **Mitigation of Road dust:** Regular sprinkling of water is being ensured on all roads of plant to control the road dust emitted from vehicular movements.
    b. **Monitoring of Ambient Air Pollution:** The ambient air quality is being regularly monitored from MoEFCC/CPCB recognized laboratories and the report is also being submitted
    c. **Mitigation measures at Ash Silo Area:**
    Ash Silos are large storage structures which are used for collecting and storing fly ash produced during coal combustion. RGTPP has adopted a full-fledged scientific system to mitigate the air pollution caused in the process of electricity generation in relation to the use of Ash Silos. It employs the following method:

        - Enclosed silos with a pneumatic loading/unloading system.
        - Anti-Smog guns for water spraying to control air born dust pollution.
        - Water sprinkling throughout the silo and truck parking areas.
        - A green belt surrounding the silo and parking areas.
        - Paving of both the silo and truck parking areas.
        - Collection and recycling of the water used for sprinkling.
        - A dedicated cleaning contract has been awarded for washing of the silo area for control of ash emission into the air. Daily washing of concrete floor in ash silo area is being carried out.
        - Curtains in loading area to avoid airborne ash.

    d. **Mitigation measures at Ash Dyke:**

    Ash Dykes are embankments or containment structures designed for the purpose of storing and managing ash slurry generated in a thermal power plant in disposing fly ash. RGTPP has adopted a full-fledged scientific system to mitigated the air pollution caused in the process of electricity generation, in relation to the use of Ash Dykes. It employs the following process;

        i. A protective lining installed on the dyke floor and walls to prevent leachate (polluted water) from seeping into the surrounding soil and groundwater.
        ii. Anti-Smog guns for water spraying to control air born dust pollution
        iii. Water sprinkling through tankers on the approach road and truck parking areas, weighbridge area.
        iv. Ash content present in slurry disposed in ash dyke settles with time. Remaining water is recovered through decanting arrangement and reused in plant operations resulting in less water consumption from fresh water source.
        v. Green belt around the ash dyke to further reduce dust emissions and enhance aesthetics.
        vi. Vehicles leaving the dyke premise are properly covered with tarpaulin sheet.
        vii. The boundary dyke is well barricaded with sarkanda.
        viii. To further mitigate the risk of airborne ash, water cannons and sprinklers have been installed along the boundary of the ash pond. These measures form a water fencing system to maintain moisture levels and prevent the ash from becoming airborne.

ix. In addition to above said efforts, a portable sprinkling system has also been installed inside the ash dyke to suppress the air borne ash particles near the lifting points.

e. **Steps taken in CHP area for Dust mitigation:**
Controlling coal dust is important for worker safety, environmental protection, and to reduce the cost of maintaining material handling equipment. RGTPP has employed a variety of scientific dust control systems to reduce the amount of airborne coal dust, which enlisted below:

Dust Control System	Functioning
Wagon Receiving by Rail	Water is sprayed over the wagon to make the coal wet so that during the unloading coal dust is not generated.
Wagon Tippler	A system is used to spray atomized water particles through nozzles to wet the coal and prevent dust from lifting off.
Conveyer Belt	Water Spraying through Nozzles
Coal Crushing Area	Dry Fog Dust Suppression (DFDS) systems: Use a combination of high-pressure air and low-pressure water to create a dry fog
Coal Bunker & Feeder	Water Spraying through Nozzles
Coal Storage Area	Water Spraying through Nozzles and Monitors

f. **Other measures:**
i. Both the units of RGTPP have been provided with highly efficient ESPs whichhelp in reducing the particulate emission from the plant.
ii. The housekeeping work at RGTPP is being continuously improved and more areas are being included in the Running contracts for ensuring dust-free environment.
iii. Boiler and ESP overhauling is carried out regularly to have better air quality.
iv. NOx burners have been commissioned for reducing emissions from stack.
v. Annual overhauling of units and tuning of ESP's being done regularly
vi. STP & ETP working adequately.
vii. Zero discharge system is functioning.

Certificate

Management system as per

ISO 9001:2015

The Certification Body TÜV NORD CERT GmbH. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

HARYANA POWER GENERATION CORPORATION LIMITED
C - 7, Urja Bhawan, Sector 6,
Panchkula - 134 109, Haryana,
India

with the locations according to the annex

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

The Generation of Power from Coal based thermal plant and its related activities

Certificate Registration No. **44 100 24395633**
Audit Report No. **2.5-12035/2024**

Valid from **28.11.2024**
Valid until **27.11.2027**
Initial certification **07.10.2024**
Certified by another CB since **16.12.2009**

Visit our database to verify the validity of this certificate.

Mumbai, **27.11.2024**

Certification Body at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH
Am TÜV 1, 45307,
Essen

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Deutsche Akkreditierungsstelle D-ZM-12007-01-00

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Annex

to Certificate Registration No. 44 100 24395633

ISO 9001 : 2015

HARYANA POWER GENERATION CORPORATION LIMITED
C - 7, Urja Bhawan, Sector 6,
Panchkula - 134 109, Haryana,
India

Certificate Registration No.	Location	Scope
44 100 24395633-01	**Haryana Power Generation Corporation Limited** C-7, Urja Bhawan, Sector 6, Panchkula - 134 109, Haryana, India	General Management, Coordination and Administration for Generation of Power from coal based thermal plants.
44 100 24395633-02	**Haryana Power Generation Corporation Limited** **Panipat Thermal Power Station (PTPS)** Village: Assan, Jind Road, Panipat – 132105, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .
44 100 24395633-03	**Haryana Power Generation Corporation Limited** **Deenbandhu Chhotu Ram Thermal Power Plant (DCRTPP)** Yamunanagar -135001, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .
44 100 24395633	**Haryana Power Generation Corporation Limited** **Rajiv Gandhi Thermal Power Plant (RGTPP)** Khedar (Hisar) - 125121, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .

End of the List

Mumbai, **27.11.2024**

Certification Body at TÜV NORD CERT GmbH

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Certificate

Management system as per

ISO 14001:2015

The Certification Body TÜV NORD CERT GmbH. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

HARYANA POWER GENERATION CORPORATION LIMITED
C - 7, Urja Bhawan, Sector 6,
Panchkula - 134 109, Haryana,
India

with the locations according to the annex

HPGCL

operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

The Generation of Power from Coal based thermal plant and its related activities.

Certificate Registration No. **44 104 24395633**
Audit Report No. **2.5-12035/2024**

Valid from **28.11.2024**
Valid until **27.11.2027**
Initial certification **07.10.2024**
Certified by another CB since **16.12.2009**

Visit our database to verify the validity of this certificate.

Mumbai, **27.11.2024**

Certification Body at TÜV NORD CERT GmbH

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Annex

to Certificate Registration No. 44 104 24395633

ISO 14001 : 2015

HARYANA POWER GENERATION CORPORATION LIMITED
C - 7, Urja Bhawan, Sector 6,
Panchkula - 134 109, Haryana,
India

Certificate Registration No.	Location	Scope
44 104 24395633-01	**Haryana Power Generation Corporation Limited** C-7, Urja Bhawan, Sector 6, Panchkula - 134 109, Haryana, India	General Management, Coordination and Administration for Generation of Power from coal based thermal plants.
44 104 24395633-02	**Haryana Power Generation Corporation Limited** **Panipat Thermal Power Station (PTPS)** Village: Assan, Jind Road, Panipat – 132105, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .
44 104 24395633-03	**Haryana Power Generation Corporation Limited** **Deenbandhu Chhotu Ram Thermal Power Plant (DCRTPP)** Yamunanagar -135001, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .
44 104 24395633	**Haryana Power Generation Corporation Limited** **Rajiv Gandhi Thermal Power Plant (RGTPP)** Khedar (Hisar) - 125121, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .

End of the List

Mumbai, **27.11.2024**

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Certificate

Management system as per

ISO 45001:2018

The Certification Body TÜV NORD CERT GmbH. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

HARYANA POWER GENERATION CORPORATION LIMITED
C - 7, Urja Bhawan, Sector 6,
Panchkula - 134 109, Haryana,
India

with the locations according to the annex

operates a management system in accordance with the requirements of ISO 45001 : 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

The Generation of Power from Coal based thermal plant and its related activities

Certificate Registration No. **44 126 24395633**
Audit Report No. **2.5-12035/2024**

Valid from **28.11.2024**
Valid until **27.11.2027**
Initial certification **07.10.2024**
certified by another CB since **30.12.2020**

Visit our database to verify the validity of this certificate.

Mumbai, **27.11.2024**

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Annex

to Certificate Registration No. 44 126 24395633

ISO 45001 : 2018

HARYANA POWER GENERATION CORPORATION LIMITED
C - 7, Urja Bhawan, Sector 6,
Panchkula - 134 109, Haryana,
India

Certificate Registration No.	Location	Scope
44 126 24395633-01	**Haryana Power Generation Corporation Limited** C-7, Urja Bhawan, Sector 6, Panchkula - 134 109, Haryana, India	General Management, Coordination and Administration for Generation of Power from coal based thermal plants.
44 126 24395633-02	**Haryana Power Generation Corporation Limited** **Panipat Thermal Power Station (PTPS)** Village: Assan, Jind Road, Panipat – 132105, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .
44 126 24395633-03	**Haryana Power Generation Corporation Limited** **Deenbandhu Chhotu Ram Thermal Power Plant (DCRTPP)** Yamunanagar -135001, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .
44 126 24395633	**Haryana Power Generation Corporation Limited** **Rajiv Gandhi Thermal Power Plant (RGTPP)** Khedar (Hisar) - 125121, Haryana, India	The Generation of Power from coal based thermal plant and its related activities .

End of the List

Mumbai, **27.11.2024**

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ALKOM SYNERGY PVT LTD

TC-17503

Laboratory:- C-212, 2nd & 3rd Floor, Sector-10, Noida-20[illegible]
Tel.: 0120-4320319 Mob.:+91-8882196187
9818493979, 9354009115
Email: info@alkom.in, www.alkomsynergy.com

TEST REPORT

Test Report of	Report Code	Date of Issue
Stack Emission	ST-060426-62	06/04/2026

Issued To:-M/s Rajiv Gandhi Thermal Power Plant, Village:-Khedar, District:-Hisar, Pin Code:-125121, Haryana (India)

SAMPLING & ANALYSIS DATA

Description	-	Stack Emission Monitoring conducted by our team.
Date of Sampling	-	23/03/2026
Emission Source Monitored	-	Boiler Unit-I
Stack Identification	-	Stack attached to Boiler Unit-I
Capacity	-	600 MW
Normal Operating Schedule	-	As per requirement
Type of Stack (ACC/Metal)	-	Mild Steel
Stack Height From Ground Level (meter)	-	275
Diameter of Stack (m)	-	7.0
Sampling Duration (Minutes)	-	32
Parameters Monitored	-	PM, SO_2, NO_x, Hg & CO
Purpose of Monitoring	-	Assessment of Pollution load
General Sensory Observations	-	Normal
Fugitive Emission (if any)	-	Nil
Stack Temperature (^oC)	-	129
Ambient Temperature (^oC)	-	31
Average Stack Velocity (m/s)	-	22.04
Quantity of Emission (Nm^3/hr)	-	2264420.80

TEST RESULT

S.N.	Parameter	Test Method	Results (mg/Nm^3)	Unit	Specification
1.	Particulate Matter, mg/Nm^3 (Corrected to 6% O_2 on dry basis)	IS:-11255 (PART:-1)	43	mg/Nm^3	50 max
2.	Sulphure Dioxide (SO2), mg/Nm^3 (Corrected to 6% O_2 on dry basis)	IS:-11255 (PART:-2)	1136	mg/Nm^3	200 max
3.	Oxide of Nitrogen (NOx), mg/Nm^3 (Corrected to 6% O_2 on dry basis	IS:-11255 (PART:-7)	318	mg/Nm^3	450 max
4.	Mercury (As Hg), mg/Nm^3	USEPA Method:-29	BLQ (LOQ-0.05)	mg/Nm^3	0.03 max
5.	Carbon Monoxide (CO), % V/V	IS:-13270	0.5	% VV	1.0 max

BLQ:-Below Limit of Quantification, LOQ:-Limit of Quantification.

*****End of Report*****

CHECKED BY

AUTHORIZED SIGNATORY

ALKOM SYNERGY PVT. LTD. NOIDA

ALKOM SYNERGY PVT LTD

TC-17503

Laboratory:- C-212, 2nd & 3rd Floor, Sector-10, Noida-201301, U.P.(INDIA)
Tel.: 0120-4320319 Mob.:+91-8882196187
9818493979, 9354009115
Email: info@alkom.in, www.alkomsynergy.com

TEST REPORT

Test Report of	Report Code	Date of Issue
Stack Emission	ST-060426-63	06/04/2026

Issued To:-M/s Rajiv Gandhi Thermal Power Plant, Village:-Khedar, District:-Hisar, Pin Code:-125121, Haryana (India)

SAMPLING & ANALYSIS DATA

Description	-	Stack Emission Monitoring conducted by our team.
Date of Sampling	-	23/03/2026
Emission Source Monitored	-	Boiler Unit-II
Stack Identification	-	Stack attached to Boiler Unit-II
Capacity	-	600 MW
Normal Operating Schedule	-	As per requirement
Type of Stack (ACC/Metal)	-	Mild Steel
Stack Height From Ground Level (meter)	-	275
Diameter of Stack (m)	-	7.0
Sampling Duration (Minutes)	-	32
Parameters Monitored	-	PM, SO_2, NO_x, Hg & CO
Purpose of Monitoring	-	Assessment of Pollution load
General Sensory Observations	-	Normal
Fugitive Emission (if any)	-	Nil
Stack Temperature (^oC)	-	131
Ambient Temperature (^oC)	-	31
Average Stack Velocity (m/s)	-	21.95
Quantity of Emission (Nm^3/hr)	-	2244009.84

TEST RESULT

S.N.	Parameter	Test Method	Results (mg/Nm^3)	Unit	Specification
1.	Particulate Matter, mg/Nm^3 (Corrected to 6% O_2 on dry basis)	IS:-11255 (PART:-1)	47	mg/Nm^3	50 max
2.	Sulphure Dioxide (SO2), mg/Nm^3 (Corrected to 6% O_2 on dry basis)	IS:-11255 (PART:-2)	1193	mg/Nm^3	200 max
3.	Oxide of Nitrogen (NOx), mg/Nm^3 (Corrected to 6% O_2 on dry basis	IS:-11255 (PART:-7)	372	mg/Nm^3	450 max
4.	Mercury (As Hg), mg/Nm^3	USEPA Method:-29	BLQ (LOQ-0.05)	mg/Nm^3	0.03 max
5.	Carbon Monoxide (CO), % V/V	IS:-13270	0.7	% VV	1.0 max

BLQ:-Below Limit of Quantification, LOQ:-Limit of Quantification.

*****End of Report*****

CHECKED BY

AUTHORIZED SIGNATORY

ALKOM SYNERGY PVT. LTD.

Sampling and Analytical Techniques:-

The Sampling and analytical techniques used for the monitoring of Ambient Air Quality are given in below:-

S. No.	Parameter	Technique	Technical Protocol
A.	Particulate Matter size of less than 10µm (PM_{10})	Gravimetric	IS:-5182 (Part:-23)
B.	Particulate Matter size of less than 2.5µm ($PM_{2.5}$)	Gravimetric	IS:-5182 (Part:-24)
C.	Sulphur dioxide (SO_2)	UV-Spectrophotometer	IS:-5182 (Part:-02)
D.	Nitrogen dioxide (NO_2)	UV-Spectrophotometer	IS:-5182 (Part:-06)
E.	Carbon monoxide (CO)	Gas Chromatograph	IS:-5182 (Part:-10)
F.	Ozone (O_3), µg/m^3	UV-Spectrophotometer	IS:-5182 (Part:-09)
G.	Lead as Pb, µg/m^3	AAS	IS:-5182 (Part:-22)
H.	Ammonia (NH3), µg/m^3	UV-Spectrophotometer	IS:-5182 (Part:-25)
I.	Benzene (C_6H_6), µg/m^3	Gas Chromatograph	IS:-5182 (Part:-11)
J.	Benzo (a) Pyrene (Bap), Particulate phase only, ng/m^3	Gas Chromatograph	IS:-5182 (Part:-12)
K.	Arsenic (As), ng/m^3	AAS	CPCBGV:-1:-2012
L.	Nickel (Ni), ng/m^3	AAS	IS:-5182 (Part:-26)

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Results of Ambient Air Quality Parameters

The results obtained during monitoring are given as below:-

Sr. No.	Parameters	Main Gate					Railway Gate			
		Time weighted average (hrs.)	1st Week 05/03/2026	2nd Week 10/03/2026	3rd Week 17/03/2026	4th Week 24/03/2026	1st Week 05/03/2026	2nd Week 10/03/2026	3rd Week 17/03/2026	4th Week 24/03/2026
1.	Particulate matter (PM_{10}), $\mu g/m^3$ (100 max)	24	93	90	91	96	92	89	87	93
2.	Particulate matter ($PM_{2.5}$), $\mu g/m^3$ (60 max)	24	52	49	48	54	51	48	45	51
3.	Sulphur dioxide (SO_2), $\mu g/m^3$ (80 max)	24	15	13	16	18	16	13	12	17
4.	Nitrogen dioxide (NO_2), $\mu g/m^3$ (80 max	24	13	11	15	14	17	15	10	16
5.	Carbon monoxide (CO), mg/m^3 (2 max)	8	1.5	1.2	1.8	1.9	1.6	1.2	1.0	1.8
6.	Ozone (O_3), $\mu g/m^3$ 100 for 8 hr. and 180 for 1hr.)	8	16	14	13	15	17	14	12	16
		1	15.25	12.98	12.25	14.90	17.10	14.85	12.35	16.10
7.	Ammonia (NH_3), $\mu g/m^3$(400 max)	24	18	16	15	17	13	15	13	17
8.	Lead (Pb), $\mu g/m^3$ (1 max)	24	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)

BLQ:-Below limit of Quantification, LOQ:-Limit of Quantification.

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Sr. No.	Parameters	Community Center				
		Time weighted average (hrs.)	1st Week 05/03/2026	2nd Week 10/03/2026	3rd Week 17/03/2026	4th Week 24/03/2026
1.	Particulate matter (PM_{10}), µg/m³ (100 max)	24	91	93	88	95
2.	Particulate matter ($PM_{2.5}$), µg/m³ (60 max)	24	50	52	46	54
3.	Sulphur dioxide (SO_2), µg/m³ (80 max)	24	17	15	12	16
4.	Nitrogen dioxide (NO_2), µg/m³ (80 max	24	19	14	11	15
5.	Carbon monoxide (CO), mg/m³ (2 max)	8	1.8	1.1	1.3	1.9
6.	Ozone (O_3), µg/m³ 100 for 8 hr. and 180 for 1hr.)	8	16	13	14	17
		1	16.45	14.65	14.30	16.50
7.	Ammonia (NH_3), µg/m³(400 max)	24	15	13	14	16
8.	Lead (Pb), µg/m³ (1 max)	24	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)

BLQ:-Below limit of Quantification, LOQ:-Limit of Quantification.

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Sr. No.	Parameters	Community Center							
		1st Week 05/03/2026	1st Week 06/03/2026	2nd Week 10/03/2026	2nd Week 11/03/2026	3rd Week 17/03/2026	3rd Week 18/03/2026	4th Week 24/03/2026	4th Week 25/03/2026
1.	Particulate matter (PM_{10}), $\mu g/m^3$ (100 max)	88	92	94	91	89	93	92	87
2.	Particulate matter ($PM_{2.5}$), $\mu g/m^3$ (60 max)	46	50	52	49	48	51	50	46
3.	Sulphur dioxide (SO_2), $\mu g/m^3$ (80 max)	14	16	18	17	15	17	16	14
4.	Nitrogen dioxide (NO_2), $\mu g/m^3$ (80 max	17	14	19	13	14	16	13	15
5.	Ammonia (NH_3), $\mu g/m^3$(400 max)	13	12	15	10	11	14	11	13
6.	Lead (Pb), $\mu g/m^3$ (1 max)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)
7.	Nickel (Ni), $\mu g/m^3$(20 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
8.	Arsenic (As), ng/m^3(6 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
9.	Benzene (C_6H_6), $\mu g/m^3$ (5 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
10.	Benzo (a) Pyrene (BaP), ng/m^3(1 max)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)

BLQ:-Below limit of Quantification, LOQ:-Limit of Quantification.

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Sr. No.	Parameters	Raw Water & Pump House Building (Near Ash Dyke)							
		1st Week 05/03/2026	1st Week 06/03/2026	2nd Week 10/03/2026	2nd Week 11/03/2026	3rd Week 17/03/2026	3rd Week 18/03/2026	4th Week 24/03/2026	4th Week 25/03/2026
1.	Particulate matter (PM_{10}), $\mu g/m^3$ (100 max)	85	92	93	91	96	90	94	88
2.	Particulate matter ($PM_{2.5}$), $\mu g/m^3$ (60 max)	43	51	52	49	54	48	53	46
3.	Sulphur dioxide (SO_2), $\mu g/m^3$ (80 max)	12	14	16	13	17	14	18	11
4.	Nitrogen dioxide (NO_2), $\mu g/m^3$ (80 max	10	15	13	16	14	12	15	13
5.	Ammonia (NH_3), $\mu g/m^3$(400 max)	13	17	15	12	11	16	14	15
6.	Lead (Pb), $\mu g/m^3$ (1 max)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)
7.	Nickel (Ni), $\mu g/m^3$(20 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
8.	Arsenic (As), ng/m^3(6 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
9.	Benzene (C_6H_6), $\mu g/m^3$ (5 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
10.	Benzo (a) Pyrene (BaP), ng/m^3(1 max)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)

BLQ:-Below limit of Quantification, LOQ:-Limit of Quantification.

Sr. No.	Parameters	Recovery Building (Near Ash Dyke)							
		1st Week 05/03/2026	1st Week 06/03/2026	2nd Week 10/03/2026	2nd Week 11/03/2026	3rd Week 17/03/2026	3rd Week 18/03/2026	4th Week 24/03/2026	4th Week 25/03/2026
1.	Particulate matter (PM_{10}), $\mu g/m^3$ (100 max)	93	90	91	88	92	94	87	89
2.	Particulate matter ($PM_{2.5}$), $\mu g/m^3$ (60 max)	51	49	48	47	50	52	46	47
3.	Sulphur dioxide (SO_2), $\mu g/m^3$ (80 max)	16	14	13	15	18	17	12	14
4.	Nitrogen dioxide (NO_2), $\mu g/m^3$ (80 max	18	16	11	14	16	13	15	12
5.	Ammonia (NH_3), $\mu g/m^3$(400 max)	15	13	17	12	14	16	11	10
6.	Lead (Pb), $\mu g/m^3$ (1 max)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)
7.	Nickel (Ni), $\mu g/m^3$(20 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
8.	Arsenic (As), ng/m^3(6 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
9.	Benzene (C_6H_6), $\mu g/m^3$ (5 max)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
10.	Benzo (a) Pyrene (BaP), ng/m^3(1 max)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)

BLQ:-Below limit of Quantification, LOQ:-Limit of Quantification.

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02. Source Emission:-

Sampling and Analytical Techniques:-

The Sampling and analytical techniques used for the monitoring of Stack emission is given in table below:-

S. No.	Parameter	Technique	Technical Protocol
A.	Particulate Matter, mg/Nm3 (Corrected to 6% O_2 on dry basis)	Gravimetric	IS:-11255 (Part:-1)
B.	Sulphure Dioxide (SO_2), mg/Nm^3 (Corrected to 6% O_2 on dry basis)	Titrimetric	IS:-11255 (Part:-2)
C.	Oxide of Nitrogen (NOx), mg/Nm^3 (Corrected to 6% O_2 on dry basis)	UV-Spectrophotometer	IS:-11255 (Part:-7)
D.	Mercury (As Hg), mg/Nm^3	AAS	USEPA METHOD:-29
E.	Carbon Monoxide (CO), % V/V	Orsat Apparatus	IS:-13270

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3. Quality Parameters of Water

1. Cooling Tower Blow Down Water (23/03/2026)

Sr. No.	Parameters	Unit	Limits	Result (Unit-I)	Result (Unit-II)
1.	Free Available Chlorine	(mg/l)	0.5 max	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)
2.	Zinc (as Zn)	(mg/l)	1.0 max	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)
3.	Total Chromium (as Cr)	(mg/l)	0.2 max	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)
4.	Phosphate (as P)	(mg/l)	5.0 max	0.54	0.40
5.	Other Corrosion inhibiting material (O2, H2S & CO2)	(mg/l)	Not Specified	Nil	Nil

2. Condensing Cooling Water (23/03/2026)

Sr. No.	Parameters	Unit	Limits	Result (Unit-I)	Result (Unit-II)
1.	Inlet Temperature	(°C)	---	29.5	29.8
2.	Outlet Temperature	(°C)	---	30.1	30.5
3.	pH	(mg/l)	6.5-8.5	7.40	7.55
4.	Free Available Chlorine	(mg/l)	0.5 max	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)

3. Boiler Blow Down Water (23/03/2026)

Sr. No.	Parameters	Unit	Limits	Result (Unit-I)	Result (Unit-II)
1.	Total Suspended Solids	(mg/l)	100 max	<1.0	<1.0
2.	Oil & Grease	(mg/l)	20 max	<5.0	<5.0
3.	Copper (as Cu)	(mg/l)	1.0 max	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)
4.	Iron (as Fe)	(mg/l)	1.0 max	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)

4. Effluent Water (23/03/2026)

Sr. No.	Parameters	Unit	Limits	Result (Inlet)	Result (Outlet)
1.	Colour	---	Not Specified	Greyish	Greyish
2.	Odour	---	Not Specified	Musty	Musty
3.	pH Value	---	5.5-9.0	6.35	7.60
4.	Total Suspended Solids	(mg/l)	100 max	152	42
5.	Total Dissolved Solids	(mg/l)	Not Specified	668	297
6.	Chemical Oxygen Demand	(mg/l)	250 max	164	46
7.	Biochemical Oxygen Demand (3 days at 27°C)	(mg/l)	30 max	55	22
8.	Oil & Grease	(mg/l)	10 max	7.0	<5.0

5. Ash Pond Effluent Water (23/03/2026)

Sr. No.	Parameters	Unit	Method	Result (Outlet)	Specification
1.	pH Value	---	APHA:-4500-H+B, 23rd Edition	7.45	5-9
2.	Total Suspended Solids	(mg/l)	APHA:-2540-D, 23rd Edition	46	Max 100
3.	Chemical Oxygen Demand	(mg/l)	APHA:-5220-B, 23rd Edition	63.5	Max 250
4.	Biochemical Oxygen Demand (3 days at 27°C)	(mg/l)	IS:-3025(Part:-44)	22.7	Max 30
5.	Oil & Grease	(mg/l)	APHA:-5520-B, 23rd Edition	<5.0	Max 10

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6. STP Colony										
Sr. No.	**Parameters**	**Limit Outlet**	**Result Inlet 07/03/2026**	**Result Outlet 07/03/2026**	**Result Inlet 12/03/2026**	**Result Outlet 12/03/2026**	**Result Inlet 19/03/2026**	**Result Outlet 19/03/2026**	**Result Inlet 26/03/2026**	**Result Outlet 26/03/2026**
1.	**Colour**	---	Blackish	Colourless	Blackish	Colourless	Blackish	Colourless	Blackish	Colourless
2.	**Odour**	---	Mild	None	Mild	None	Mild	None	Mild	None
3.	**pH Value**	5.5-9.0	6.35	7.50	6.15	7.45	6.20	7.30	6.45	7.55
4.	**Total Suspended Solids (mg/l)**	20 max	92	19	80	12	78	15	82	17
5.	**Total Dissolved Solids (mg/l)**	1500 max	1690	685	1715	720	1705	675	1765	740
6.	**Chemical Oxygen Demand (mg/l)**	150 max	265	70	230	76	220	70	275	81
7.	**Biochemical Oxygen Demand (03 days at 27°C (mg/l)**	30 max	80	24	75	20	70	18	76	19
8.	**Oil & Grease (mg/l)**	10 max	12.5	<5.0	11.0	<5.0	10.9	<5.0	10.5	<5.0

BLQ:-Below limit of Quantification, LOQ:-Limit of Quantification.

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7. STP Plant										
Sr. No.	**Parameters**	**Limit Outlet**	**Result Inlet 07/03/2026**	**Result Outlet 07/03/2026**	**Result Inlet 12/03/2026**	**Result Outlet 12/03/2026**	**Result Inlet 19/03/2026**	**Result Outlet 19/03/2026**	**Result Inlet 26/03/2026**	**Result Outlet 26/03/2026**
1.	**Colour**	---	Greyish	Colourless	Greyish	Colourless	Greyish	Colourless	Greyish	Colourless
2.	**Odour**	---	Musty	None	Musty	None	Musty	None	Musty	None
3.	**pH Value**	5.5-9.0	6.30	7.25	6.45	7.60	6.55	7.60	6.40	7.25
4.	**Total Suspended Solids (mg/l)**	20 max	70	14	73	18	85	20	80	18
5.	**Total Dissolved Solids (mg/l)**	1500 max	1690	705	1720	735	1795	740	1770	705
6.	**Chemical Oxygen Demand (mg/l)**	150 max	185	70	215	65	235	80	210	76
7.	**Biochemical Oxygen Demand (03 days at 27°C (mg/l)**	30 max	70	19	75	20	85	22	73	17
8.	**Oil & Grease (mg/l)**	10 max	11.5	<5.0	10.2	<5.0	11.9	<5.0	10.7	<5.0

BLQ:-Below limit of Quantification, LOQ:-Limit of Quantification.

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Photo showing working of Rain Gun installed on periphery of Ash dyke.



Annexure-6

Photo showing working of sprinkler system installed on pathway leading to Ash dyke.



Photo showing working of Wheel wash system installed near exit of Ash dyke.



Photo showing working of potable Rain Guns.



कार्यालय

वन मण्डल अधिकारी, हिसार वन मण्डल, हिसार
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क्रमांक : 4399 दिनांक 05/03/2025

सेवा में,

Chief Engineer,
RGTPP, HPGCL,
Khedar (Barwala).

विषयः– राजीव गांधी थर्मल पावर प्लांट में ग्रीन बैल्ट क्षेत्र की चैंकिग करने बारे।

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उपरोक्त विषय के सम्बन्ध में वन राजिक अधिकारी, हिसार द्वारा उनके पत्र क्रमांक 1410–एच0 दिनांक 05.03.2025 द्वारा अवगत करवाया गया है कि राजीव गांधी थर्मल पॉवर प्लांट खेदड़ मे आपके कर्मचारी/अधिकारी के साथ पॉवर प्लांट के नक्शे की ड्राईंग अनुसार ग्रीन बैल्ट क्षेत्र का संयुक्त भौतिक सत्यापन किया गया। जिसका वन राजिक अधिकारी हिसार ने निम्न प्रकार से भेजा है :–

Sr. No.	Area in Acre	Remarks
1	250 Acre	Well Developed in Green Area.
2	36 Acre	Green Belt is under Developing.
3	-	Native Species are planted – Shisham, Ailanthus, Neem, Arjun, Siris. Cassia Siamea, Bottle Brush, Kikar, Pipal, mainly.

वन मण्डल अधिकारी (क्षे0),
हिसार।

SE/O&M-I
SE/O&M-II
SE/MP&GS
SE/FUEL
SE/MM&STORE
SE/M&T
SE/CIVIL

FA&CAO
XEN/WORKS
ADMN. Officer
P.A.
06/03
C/E/RGTPP