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,
Plot No.11, Sector-6, PANCHKULA

Memo No. Ch- 22/XEN/Env/F-218/Vol-I **Dated: 29.09.2025**

Subject : Submission of Environment statement for the year ended 31st March,2025.

Dear Sir,

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

Thanking You.

29/9/25

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

CC:- Regional Office,
Haryana State Pollution Control Board,
Bay No.B-7, 8, Near Vishwas Sr. Sec School,
Urban Estate-II, Hisar.

FORM V
(SEE RULE-14)

Environment Statement for the financial year April 2024 to March 2025

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	12/06/2024

PART-B

1. WATER CONSUMPTION

Process / Cooling = 34742 MT/Day

Domestic / Portable = 1148 MT/Day

Sr. No.	Name of Products	Process Water consumption per unit of product output	
		During the previous F.Y. 2023-2024	During the F.Y.2024- 2025
1.	Electricity	2.29 LTR/UNIT	2.11 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 2023-2024	During the previous FY from April, 2024 to March, 2025
1.	Coal	Electricity	0.745 Kg/unit	0.731 Kg/unit
2.	Oil	Electricity	1.271 ml /unit	0.849 ml /unit

3. CHEMICAL CONSUMPTION GIVEN BELOW

Sr. No	Name of the Material	Consumption Annual for the year from 01.04.2023 to 31.03.2024	Consumption Annual for the year from 01.04.2024 to 31.03.2025
1.	Hydrochloride Acid	453 MT	521.2 MT
2.	Caustic Soda Lye	272 MT	340.6 MT
3.	Ferric Alum	107 MT	69.6 MT
4.	Caustic Soda Flakes	360 MT	636 MT
5.	Ammonia	48700 Ltr	67050 Ltr
6.	Tri-Sodium Phosphate	231 Kg	391 Kg
7.	Chlorine	85.78 MT	135.76 MT
8.	Hydrated Lime	1.71 MT	1.89 MT
9.	Sulphuric Acid	282.2 MT	282.9 MT

10.	PAC	9110 Kg	11300 Kg
11.	Scale Inhibitor-	9025 Kg	11107 Kg
12.	Bio Dispersant	5030 Kg	5040 Kg
13.	Bleaching	100 Kg	Nil
14.	Corrosion Inhibnitor-1	10569 Kg	13004.8 Kg
15.	Corrosion Inhibnitor-2	4512 Kg	5551.5 Kg

PART – C

Pollutants	Quantity of Pollutants Discharged (mass / day)	Concentration of pollutants in discharge (mass/volume	% age of violation from escribed Standards with reasons
Water	As per attached Reports	Report of test result of March-2025 attached as Annexure-A	
Air	As per attached Reports	Report of test result of March-2025 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 2023 to March 2024	During the financial year from April 2024 to March 2025.	
g. From process i. Dirty Oil filled with sludge	7.07 K Ltr.	21.02 MT.	
ii Dirty T/F Oil	.....	--------	
Iii Old battery scrap	4.15 MT	3.35 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 2023 to March 2024	During the financial year April 2024 to March 2025
a. Form process	Ash Generated 1400966 MT	Ash Generated 1781465 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	**1.** a. Fly Ash generated 1120773 MT b. Bottom ash generated 280193.25 MT c. Fly Ash utilized 737335.69 MT d Pond ash utilized 1163259.88 MT	**1.** a. Fly Ash generated 1425172.65 MT b. Bottom ash generated 3,56,293.16 MT c. Fly Ash utilized 920782.59 MT d. Pond Ash utilized 507548.53 MT
2. Sold	2. DFA-737335.69 MT & Pond Ash-1163259.88 MT	2. DFA-920782.59 MT & Pond Ash-507548.53 MT
3. The fly ash generated stored in ash pond in slurry from through pipes	3. All Ash generated in FY-2023-24 has been fully utilized.	3. 353135 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. CC Road is being constructed for approaching ash dyke to reduce fugitive emissions.
2. Strengthening Sprinkling system installed in various areas.
3. Trees will be planted in various areas.
4. 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- 3 R 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 2024-25	Age of Plant
Amaltas, Gulmohar, Leshwa, Sahtoot, Prijat, Silver Oak, kachnar, Champa, Teekoma, Neem Arjun, Shisham, Anwala	9500	1-11 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.

Annexure-2

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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

HPGCL

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

TÜV NORD CERT GmbH
Am TÜV 1, 45307,
Essen

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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

HPGCL

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,
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Annexure-3

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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

HPGCL

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**

Certification Body at TÜV NORD CERT GmbH

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IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

DAkkS Deutsche Akkreditierungsstelle D-ZM-12007-01-00

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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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Annexure-4

TÜVNORD

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

HPGCL

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

HPGCL

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

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Mumbai, **27.11.2024**

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Annexure – 5

ITC Labs

Interstellar Testing Centre Pvt. Ltd.

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 03-02-2025	2nd Week 10-02-2025	3rd week 19-02-2025	4th week 26-02-2025	1st Week 03-02-2025	2nd Week 10-02-2025	3rd week 19-02-2025	4th week 26-02-2025
1.	Particulate matter (PM_{10}), $\mu g/m^3$ (100 max)	24	147	119	132	127	152	126	136	132
2.	Particulate matter (PM2.5), µg/m3 (60 Max)	24	78	63	72	62	82	68	76	67
3.	Sulphur dioxide (SO2), µg/m3 (80 Max)	24	13	6	8	7	10	7	6	11
4.	Nitrogen dioxide (NO_2), $\mu g/m^3$ (80 Max)	24	17	13	16	12	15	17	13	14
5.	Carbon monoxide (CO), mg/m^3 (2 Max)	8	1.3	1.2	1.4	1.3	1.4	1.4	1.3	1.4
6.	Ozone (O_3), $\mu g/m^3$ (100 for 8 hr and 180 for 1 hr)	8	BLQ(LOQ :20)	24	25	22	BLQ(LOQ: 20)	25	24	24
		1	22.43	21.35	23.12	24	21.34	21.65	23.4	22
7.	Ammonia (NH_3), $\mu g/m^3$ (400 max)	24	26	29	29	26	27	32	26	29
8.	Lead (Pb), $\mu g/m^3$ (1 max)	24	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)

Sr. No.	Parameters	Time weighted average (hrs.)	Community Centre			
			1st Week 03-02-2025	2nd Week 10-02-2025	3rd week 19-02-2025	4TH week 26-02-2025
1.	Particulate matter (PM_{10}), µg/m^3 (100 max)	24	116	110	96	102
2.	Particulate matter (PM2.5), µg/m3 (60 Max)	24	64	58	52	56
3.	Sulphur dioxide (SO2), µg/m3 (80 Max)	24	6	11	7	9
4.	Nitrogen dioxide (NO_2), µg/m^3 (80 Max)	24	12	18	18	16
5.	Carbon monoxide (CO), mg/m^3 (2 Max)	8	1.2	1.3	1.4	1.2
6.	Ozone (O_3), µg/m^3 (100 for 8 hr and 180 for 1 hr)	8	BLQ (LOQ:20.0)	24	23	25
		1	BLQ (LOQ:20.0)	25	24	26
7.	Ammonia (NH_3), µg/m^3 (400 max)	24	26	26	26	28
8.	Lead (Pb), µg/m^3 (1 max)	24	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

Results of Stack Emission quality parameters

Stack emission monitoring was conducted for Unit-I and Unit-II at the rated load 600 MW and 600 MW on [illegible] 2025 as per the prescribed standard procedure through envirotech make stack monitoring kit.

Results are as given in table below:

Test Parameter	Standards	Unit-I	Unit-II
Stack Height from Ground Level		275 mtr	275 mtr
Stack Dia		7 mtr	7 mtr
Type of Stack		Metal	Metal
Sampling point above Ground		105 mtr	105 mtr
Product		Electricity Generation	Electricity Generation
Fuel Used		Coal	Coal
Capacity		600 MW	600 MW
Particulate Matter, mg/Nm3 (Corrected to 6% O_2 on dry basis)	50 max	46	43
Sulphur Dioxide (SO2), mg/Nm3 (Corrected to 6% O_2 on dry basis)	200 max	691	979
Oxides of Nitrogen (NOx), mg/Nm3 (Corrected to 6% O_2 on dry basis)	450 max	384	293
Mercury (Hg), mg/Nm3	0.03 max	BLQ (LOQ 0.01)	BLQ (LOQ:0.01)
Carbon Monoxide (CO), % v/v	1.0 max	0.2	0.2
Sampling Duration, Min		36	35
Flue Gas Temp, °C		119	116
Velocity of Flue Gas, m/s		20.30	20.07
Volumetric flow rate, Nm^3/Hr		2080715.01	2073005.24

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

3. Quality Parameters of Water

1. Cooling Tower Blow Down Water (10-02-2025)

Sr. No.	Parameters	Unit	Limit	Result (Unit-I)	Result (Unit-II)
1	Free Available Chlorine	(mg/l)	0.5 max	BLQ(LOQ:0.03)	BLQ(LOQ:0.03)
2	Zinc as Zn	(mg/l)	1.0 max	0.06	BLQ(LOQ:0.05)
3	Total Chromium as Cr	(mg/l)	0.2 max	BLQ(LOQ:0.05)	BLQ(LOQ:0.05)
4	Phosphate as P	(mg/l)	5.0 max	0.15	0.24
5	Other Corrosion inhibiting material (O2, H2S & CO2)	(mg/l)	Not Specified	Nil	Nil

2. Condensing Cooling Water (10-02-2025)

Sr. No.	Parameters	Unit	Limit	Result (Unit-I)	Result (Unit-II)
1	Inlet Temperature	°C	---	22.9	22.8
2	Outlet Temperature	°C	---	25.4	26.2
3	pH		6.5-8.5	8.09	8.01
4	Free Available Chlorine	(mg/litre)	0.5 Max.	BLQ(LOQ:0.03)	BLQ(LOQ:0.03)

3. Boiler Blow Down Water (10-02-2025)

Sr. No.	Parameters	Unit	Limit	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.	<4.0	<4.0
3	Copper as Cu	(mg/l)	1.0 Max	BLQ(LOQ:0.05)	BLQ(LOQ:0.05)
4	Iron as Fe	(mg/l)	1.0 Max.	BLQ(LOQ:0.05)	BLQ(LOQ:0.05)

4. Effluent Water (10-02-2025)

Sr. No.	Parameters	Unit	Limit	Result (Inlet)	Result (Outlet)
1	Colour		Not Specified	Greyish	Colourless
2	Odour		Not Specified	Musty	None
3	pH Value		5.5-9.0	6.98	6.92
4	Total Suspended Solids	(mg/l)	100 max.	114	4
5	Total Dissolved Solids	(mg/l)	Not Specified	728	702
6	Chemical Oxygen Demand	(mg/l)	250 max.	165	22
7	Biochemical Oxygen Demand (3 days at 270C)	(mg/l)	30 max.	52	6
8	Oil & Grease	(mg/l)	10 max.	8.8	<4.0

5. Ash Pond Effluent Water (10-02-2025)

	Parameters	Unit	Method	Result (Inlet)	Specification
1	pH Value	NA	IS: 3025 (Part-11):2022	7.58	5-9
2	Total Suspended Solids	(mg/l)	IS: 3025 (Part-17):2022	82	Max. 100
3	Chemical Oxygen Demand	(mg/l)	IS: 3025 (Part-58):2023	160	Max. 250
4	Biochemical Oxygen Demand (3 days at 270C)	(mg/l)	IS: 3025 (Part-44):2023	27	Max. 30
5	Oil & Grease	(mg/l)	IS: 3025 (Part-39):2021	5.1	Max. 10

6. STP Colony

Sr. No.	Parameters	Limit Outlet	Result (Inlet) dated:04-02-2025	Result (Outlet) dated:04-02-2025	Result (Inlet) dated:10-02-2025	Result (Outlet) dated: 10-02-2025	Result (Inlet) dated: 21-02-2025	Result (Outlet) dated: 21-02-2025	Result (Inlet) dated: 28-02-2025	Result (Outlet dated 28-02-2025
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	6.82	7.01	6.82	6.93	6.94	7.04	6.97	7.02
4	Total Suspended Solids (mg/l)	20 max.	110	4	118	6	118	6	128	8
5	Total Dissolved Solids (mg/l)	2100 max.	610	712	572	718	618	720	652	712
6	Chemical Oxygen Demand(mg/l)	50 max.	230	24	225	28	240	26	255	28
7	Biochemical Oxygen Demand (3 days at 270C) (mg/l)	10 max.	66	6	68	8	68	7	69	8
8	Oil & Grease (mg/l)	10 max.	12.6	<4.0	12.8	<4.0	12.8	<4.0	12.9	<4.0

6. STP Plant

Sr. No.	Parameters	Limit Outlet	Result (Inlet) dated:04-02-2025	Result (Outlet) dated:04-02-2025	Result (Inlet) dated:10-02-2025	Result (Outlet) dated: 10-02-2025	Result (Inlet) dated: 21-02-2025	Result (Outlet) dated: 21-02-2025	Result (Inlet) dated:28-02-2025	Result (Outlet dated: 28-02-2025
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	7.02	7.56	7.06	7.46	7.08	7.58	7.14	7.54
4	Total Suspended Solids (mg/l)	20 max.	58	6	58	5	62	4	68	6
5	Total Dissolved Solids (mg/l)	2100 max.	634	776	652	772	648	778	672	742
6	Chemical Oxygen Demand(mg/l)	50 max.	165	26	190	22	170	22	180	24
7	Biochemical Oxygen Demand (3 days at 270C) (mg/l)	10 max.	56	7	60	6	58	6	60	7
8	Oil & Grease (mg/l)	10 max.	10.2	<4.0	10.8	<4.0	10.2	<4.0	10.3	<4.0

Meteorology Observations-(10-02-2025)

Time	Temp. °C	Humidity%	Wind Speed (km/hr)	Wind Direction	Rain Fall (mm)
06:00-07:00 hrs	11	63	4.1	E	NIL
07:00-08:00 hrs	12	64	3.1	E	NIL
08:00-09:00 hrs	13	58	3.0	SE	NIL
09:00-10:00 hrs	17	46	3.0	S	NIL
10:00-11:00 hrs	21	37	4.0	S	NIL
11:00-12:00 hrs	24	31	6.0	SSW	NIL
12:00-13:00 hrs	25	26	8.1	W	NIL
13:00-14:00 hrs	27	23	9.2	W	NIL
14:00-15:00 hrs	27	22	4.1	W	NIL
15:00-16:00 hrs	28	21	4.1	W	NIL
16:00-17:00 hrs	27	22	4.2	WSW	NIL
17:00-18:00 hrs	25	25	4.3	WSW	NIL
18:00-19:00 hrs	23	29	4.2	WSW	NIL
19:00-20:00 hrs	21	31	4.1	W	NIL
20:00-21:00 hrs	19	34	4.0	W	NIL
21:00-22:00 hrs	18	37	8.0	WNW	NIL
22:00-23:00 hrs	16	40	8.0	NW	NIL
23:00-24:00 hrs	15	43	4.0	N	NIL
24:00-01:00 hrs	14	45	9.0	N	NIL
01:00-02:00 hrs	14	48	9.0	N	NIL
02:00-03:00 hrs	13	51	8.0	NNE	NIL
03:00-04:00 hrs	13	54	7.1	NNE	NIL
04:00-05:00 hrs	12	57	6.2	NE	NIL
05:00-06:00 hrs	12	60	6.1	ENE	NIL

SE-South East, WSW-West South West, ENE-East North East, NE-North East, N-North, NW-North West, W-West, NNE-North North East, WNW-West North West, SSW-South South West, S-South, E-East

---End of the Report---

Photos showing working of Rain Gun installed on periphery of dyke

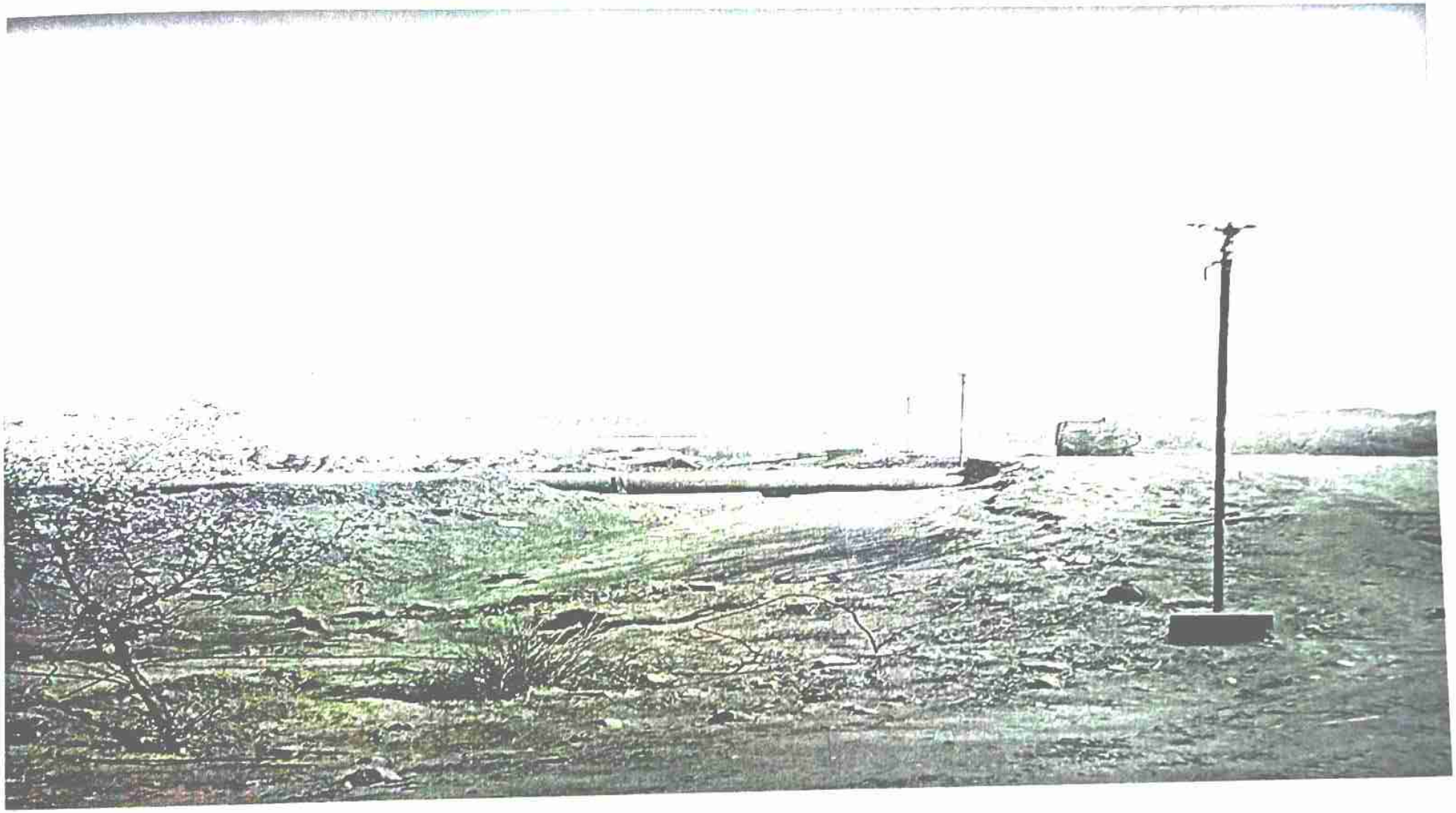
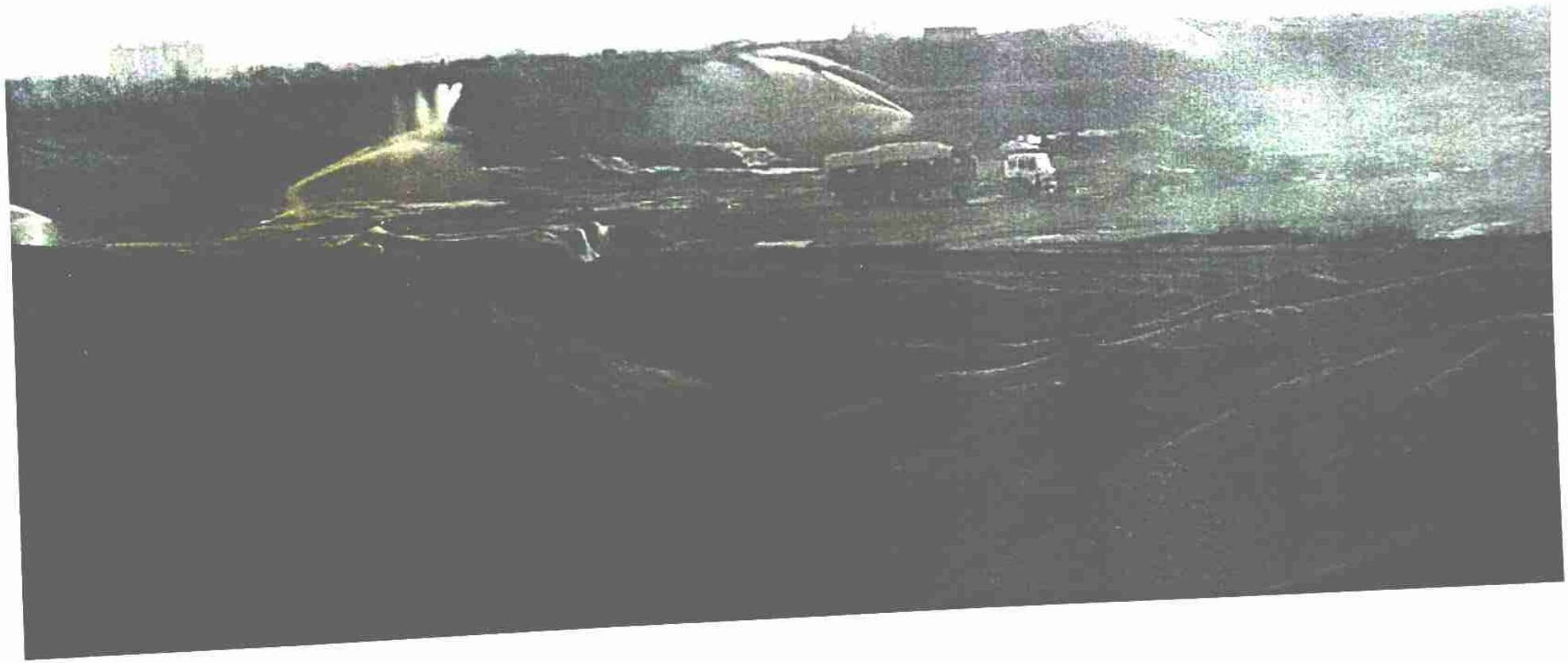
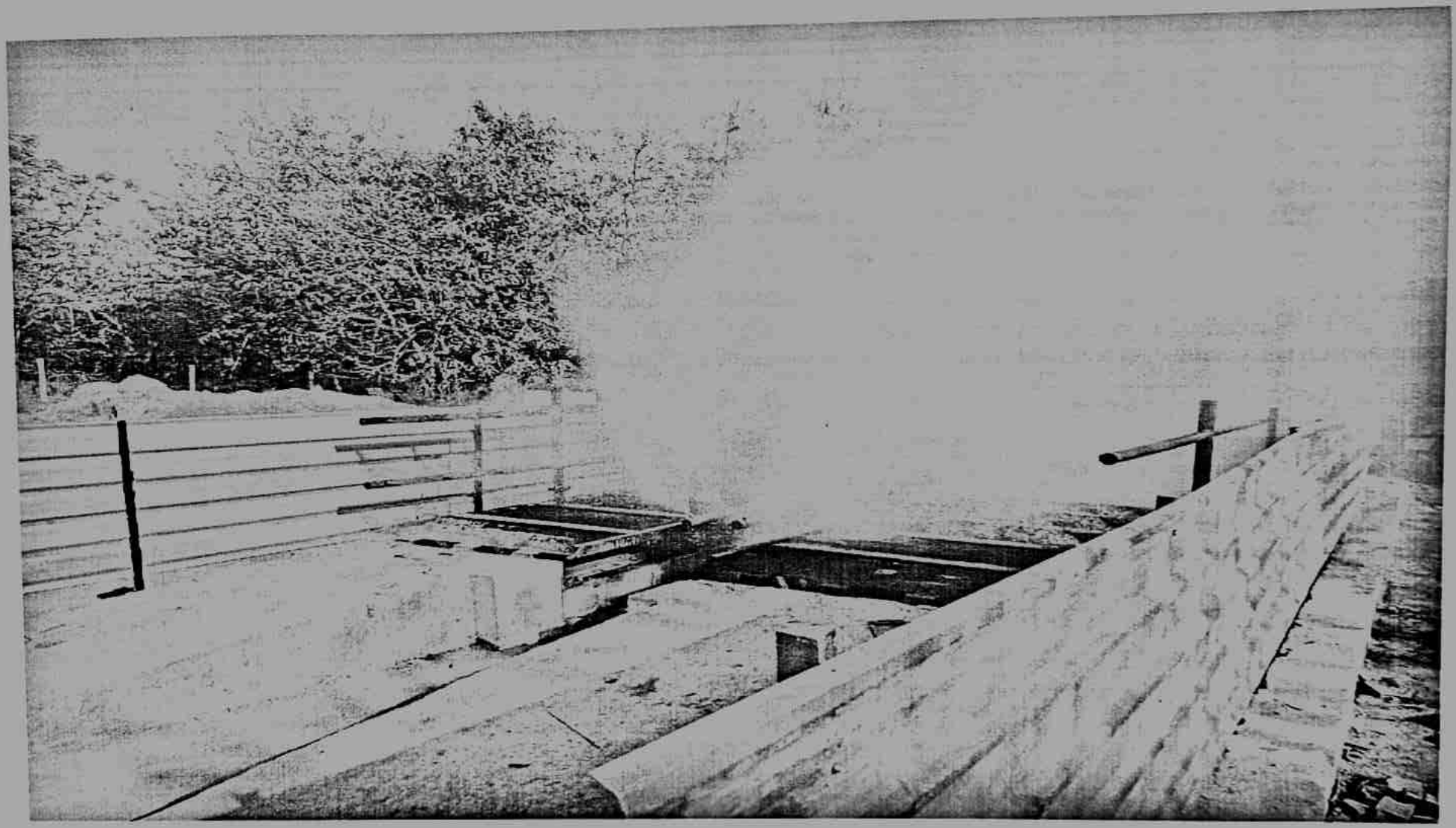


Photo showing working of portable Rain guns



Photos showing wheel wash system installed near exit of ash dyke



Photos showing working of sprinkler system installed on pathway leading to dyke



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