



नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(भारत सरकार का उद्यम)/(A Govt. of India Enterprise)



135मे.वा.अगरतला गैस टरबाइन कंबाइंड साइकिल पावर प्लांट

135 MW AGARTALA GAS TURBINE COMBINED CYCLE POWER PLANT

संयंत्र प्रमुख का कार्यालय/ OFFICE OF THE HEAD OF PLANT

रामचन्द्रनगर, त्रिपुरा (प)/ RAMCHANDRA NAGAR, TRIPURA (W)-799008

CIN – U40101ML 1976GOI001658,

NO. NEEPCO/AGTCCPP/HOP/T-25(D)/VOL-I/2021-2022/ 40

DATE: 29 /04/2021

To,
The Principal Chief Conservator of Forests(C),
Govt. of India, Ministry of Environment & Forests,
North Eastern Regional Office, Low-U-Sib,
Lumbatngen, Near MTC Workshop,
Shillong – 793 021.

**Sub : 135 MW Agartala Gas Turbine Combined Cycle Power Plant - Six Monthly Report
on status of Environment Clearance (1st Oct,2020 to 31st March,2021).**

Sir,

This has reference to the Office Memorandum No.J-1311/1/92-IA Dtd.23/01/1992 of the MOE&F, Govt. of India conveying the Environment Clearance and adherence to the various referred conditions, the Status Report of compliance on conditions by this Project are as under :-

Sl. No.	Stipulations as brought out under Memorandum No.J-13011/1/IA Dtd.23/01/1992 of the MOE&F, Govt. of India	Status of compliance by Agartala Gas Turbine Combined Cycle Power Plant of NEEPCO
2(ii)	Only natural gas is used in the main feed stock.	Only natural gas is used in the main feed stock.
(ii)	Zero discharge concepts with respect to liquid effluents may be followed and as such no liquid effluent will be allowed to be discharged in the water bodies. Treated liquid effluent should be used/recycled in the plant/irrigation of the green belt/agricultural fields etc.	After commissioning of STGs in 2015-16 liquid effluent is generated and discharged in environment after proper treatment. A scheme is already envisaged to recycle the effluent water under Zero Discharge Scheme. The said work will be completed within 2021-22.
(iii)	Adequate steps should be taken for prevention and control of fire and explosion hazards likely to be caused due to storage and used of inflammable materials like natural gas.	Fire protection system for machine already exists. Fire tenders from Tripura State Fire Service Stationed in Plant area all the round to combat fire.
(iv)	Affected families due to acquisition of land should be properly compensated in consultation with the State Govt.	The land has been purchased directly from the Govt. of Tripura and no families have been affected due to the acquisition.
(v)	The NOX emissions should not exceed the specified standards of 50 ppm. As the site is located within 25 km. of the sanctuary.	Some times NOX emission goes beyond the prescribed limit. However, Nox level is hovering around maximum of 70-86 ppm.

Contd...P/2

CIN NO. U40101ML1976GO1001658

Regd. Office : Brookland Compound, Lower New Colony, Shillong – 793 003

Phone No. CMD's Office (0364) 2224487/2226453, Fax – 0364-2226417

(vi)	The gaseous emissions from various units should conform to the standards prescribed by the concerned authorities from time to time. At no time the emission level should go beyond the stipulated standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should be shutdown and should not be restarted until the control measures are rectified to achieve the desired standard efficiency.	These parameters are within stipulated norms.
(vii)	Adequate No. of Monitoring stations should be provided in consultation with the State Pollution Control Board. Further, stack emissions should be monitored periodically. The data of stack emissions and ambient air quality should be sent to the State Pollution Control Board once in 3 months and to this Ministry once in 6 months.	Quality of water is monitored at regular interval. There is minimum sound noise beyond the Power House. CEMS is available and online data of stack emission can be viewed online on Real Time basis by CPCB and SPCB. Ambient Air quality is monitored by 3 rd party on monthly basis.
(viii)	A green belt of adequate width (not less than 100 meters) and density should be provided all around the Power station.	A green belt with an average width of 100 meters around Power Station including office and Colony Complex with plantation of 45,230 (approx.) plants are maintained.
(ix)	A separate Environment Management Cell with suitably qualified staff to carry out the various functions should be set up under the control of Senior Executives, who will report directly to the Head of the Organization.	An Environment Management Cell is working in the Plant.
3.	Adequate financial provision should be made for implementation of these stipulations and the details of such provisions communicated to this Ministry within three months Financial provisions so made will not be utilized for any other purpose.	Funds are available.

We are also enclosing herewith the test reports (as given below) which was carried out by the M/s Nitya Laboratories, Haryana in the month of March, 2021.

Assuring our best commitments.

Thanking you,

Enclo:-

1) Various Test Reports.

Yours faithfully,

AGT 28.04.2021
CGM(E/M) & Head of Plant,
AGTCCPP, NEEPCO Ltd.,
R.C. Nagar, Tripura (West).

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: North Eastern Electric Power Corporation Limited
(135 MW Agartala Gas Turbine Combined Cycle Power Plant)
Ramchandra Nagar, Tripura (W)-799008

URL No.: TC636621000000332
Test Report Date: 08/03/2021

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Date of Sampling : 20/02/2021
Time of Sampling (Hrs) : 10:30 AM
Test Started on : 01/03/2021
Test Completed : 06/03/2021
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Sampling Location : Garden Area (Power House)
Avg. Flow Rate of Air for RDS (m3/min) : 1.25
Avg. Flow Rate of Air for FPS (m3/hr) : 1.00
Monitoring Conducted By : Mr. Deepak Rana
Ambient Temperature (°C) : 20
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	*NAAQS:2009 Standards	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	30.46	60	40 CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	66.68	100	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	14.38	80	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	31.22	80	IS:5182(P-6)
5.	Carbon Monoxide (as CO), µg/m ³	BDL(LOQ-0.1)	04	IS:5182(P-10)
6.	Carbon Dioxide (as CO ₂), µg/m ³	104	-	NL/SOP/GC-25/ Based on IS:5182(P-21)
7.	Lead (as Pb), µg/m ³	BDL(LOQ-0.5)	1.0	NL/SOP/AAQ-11/IS:5182 (P-22)

Remark:

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009
BDL-Below Detection Limit



Certificate No.
T-6366

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that particular time. * Not in NABL Scope. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924093

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Test Report

Issued to: North Eastern Electric Power Corporation Limited
(135 MW Agartala Gas Turbine Combined Cycle Power Plant)
Ramchandra Nagar, Tripura (W)-799008

URL No.: TC636621000000333
Test Report Date: 08/03/2021

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Date of Sampling : 22/02/2021
Time of Sampling (Hrs) : 09:30 AM
Test Started on : 01/03/2021
Test Completed : 06/03/2021
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Sampling Location : Residential Complex (Colony)
Avg. Flow Rate of Air for RDS (m3/min) : 1.14
Avg. Flow Rate of Air for FPS (m3/hr) : 0.98
Monitoring Conducted By : Mr. Deepak Rana
Ambient Temperature (°C) : 20
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	*NAAQS:2009 Standards	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	22.44	60	40 CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	58.61	100	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	14.25	80	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	28.81	80	IS:5182(P-6)
5.	Carbon Monoxide (as CO), µg/m ³	BDL(LOQ-0.1)	04	IS:5182(P-10)
6.	Carbon Dioxide (as CO ₂), µg/m ³	92	-	NL/SOP/GC-25/ Based on IS:5182(P-21)
7.	Lead (as Pb), µg/m ³	BDL(LOQ-0.5)	1.0	NL/SOP/AAQ- 11/IS:5182 (P-22)

Remark:

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009
BDL-Below Detection Limit



Certificate No.
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(RAVINDER MITTAL)

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Test Report

Issued to: North Eastern Electric Power Corporation Limited
(135 MW Agartala Gas Turbine Combined Cycle Power Plant)
Ramchandra Nagar, Tripura (W)-799008

URL No.: TC636621000000336

Test Report Date: 08/03/2021

Sample Particulars

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 23/02/2021
Time of Sampling (Hrs)	: 10:30 AM
Test Started on	: 01/03/2021
Test Completed	: 06/03/2021
Purpose of Monitoring	: To Check the Pollution Load
Method of Sampling	: IS 5182 (Part 14)
Sampling Location	: Town Agartala
Avg. Flow Rate of Air for RDS (m3/min)	: 1.20
Avg. Flow Rate of Air for FPS (m3/hr)	: 1.00
Monitoring Conducted By	: Mr. Deepak Rana
Ambient Temperature (°C)	: 20
Sampling Duration (Hrs.)	: 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	*NAAQS:2009 Standards	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	24.28	60	40 CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	60.62	100	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	10.14	80	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	24.31	80	IS:5182(P-6)
5.	Carbon Monoxide (as CO), µg/m ³	0.64	04	IS:5182(P-10)
6.	Carbon Dioxide (as CO ₂), µg/m ³	116	-	NL/SOP/GC-25/ Based on IS:5182(P-21)
7.	Lead (as Pb), µg/m ³	BDL(LOQ-0.5)	1.0	NL/SOP/AAQ-11/IS:5182 (P-22)

Remark:

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(ii)] 16.11.2009
BDL-Below Detection Limit



Certificate No.



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(RAVINDER MITTAL)

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