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नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड

भारत सरकार का उपक्रम

NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

(A Govt. of India Enterprise)

Miniratna Category - I

OFFICE OF THE HEAD OF PROJECT
135 MW AGTCCPP, NEEPCO LTD.,
RAMCHANDRANAGAR, TRIPURA (WEST),
Email : hopofficeagtp@gmail.com

NO. NEEPCO/AGTCCPP/HOP/T-25(D)/VOL-I/2019-2020/ 32

DATE : 08/05/2019

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,2018 to 31st March,2019).**

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(i)	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 treated effluent water.
(iii)	Adequate steps should be taken for presentation 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 be exceed the specified standards of 50 ppm. As the site is located within 25 km. of the sanctuary.	The NOX emission is below 50 ppm.
(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 be beyond the stipulated standards. In the event of failure of any	These parameters are within stipulated norms.

CIN NO.U40101ML1976GO1001658

Regd. Office : Brookland Compound, Lower New Colony, Shillong – 793 003
Phone No. CMD's Office (0364) 2224487/2226453, Fax – 0364-2226417

	pollution control system adopted by the unit, the respective unit should be shutdown and should not be restarted until the control measure are rectified to achieve the desired standard efficiency.	
(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 date 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.	Action has been taken to monitor. Quality of water is monitored at regular interval. There is minimum sound noise beyond the Power House. After installation of CEMS and online data uploading, stack emission can be viewed online on Real Time basis by CPCB and SPCB.
(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 45,081 (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 Green Tech Environmental Engineer & Consultants, Guwahati in the month of Nov,2018.


Assuring our best commitments.

Thanking you,

Enclo:-

- 1) Test Report of Sound Level Monitoring.
- 2) Test Report of Ambient Air.
- 4) Water Test Report.

Yours faithfully,

 Head of Project,
AGTCCPP, NEEPCO Ltd.,
R.C. Nagar, Tripura (West).

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1-25
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Format No.: GEEC/FM/48

TEST REPORT

URL NO.: TC599118000000217F

Test Report No:	GEEC/AAQM/2018/11/07	Date of Reporting:	28/11/2018	
Customer Name:	Agartala Gas Turbine Combined Cycle Power Plant	Lab. ID No.:	GEEC/AA/2018/11/07	
Customer Address:	Agartala Gas Turbine Combined Cycle Power Plant Ramchandranagar PO NEEPCO, Agartala, Tripura (W)-79908	Date of Sampling:	16/11/2018 to 17/11/2018	
Sampling Location:	Guest House (Colony)	Ambient Temperature:	Max.	Min.
Wind Direction/ Weather Condition:	Calm and Clear		25.1°C	16.7°C
Sampling Condition:	In GFA and PTFE Filter Paper	Sample Receipt Date:	19/11/2018	
Equipments Details:	RDS and ADS Fine Dust Sampler	Test Start Date:	19/11/2018	
Monitored By:	Mr. D. Deka	Test End Date:	26/11/2018	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	65	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	38	60	CPCB Guidelines
3	Sulphur Dioxide (SO ₂)	µg/m ³	5	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	9	80	IS 5182(VI)
5	Lead (Pb)	µg/m ³	<0.01	1	IS 5182(22)

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

Authorised by: Lab -in-Charge

(Dr. Belinda Lahon)

The parameters tested on the specific date are found to be within the NATIONAL AMBIENT AIR QUALITY STANDARDS, CPCB NOTIFICATION DATED 18TH NOVEMBER, 2009.

- * The results relate only to the item tested.
- * The test report shall not be reproduced except in full, without written approval of the laboratory.
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Format No.: GEEC/FM/48

TEST REPORT

URL NO.: TC599118000000218F			
Test Report No:	GEEC/AAQM/2018/11/08	Date of Reporting:	28/11/2018
Customer Name:	Agartala Gas Turbine Combined Cycle Power Plant	Lab. ID No.:	GEEC/AA/2018/11/08
Customer Address:	Agartala Gas Turbine Combined Cycle Power Plant Ramchandranagar PO NEEPCO, Agartala, Tripura (W)-79908	Date of Sampling:	17/11/2018 to 18/11/2018
Sampling Location:	Agartala Guest House	Ambient Temperature:	Max.
Wind Direction/ Weather Condition:	Calm and Clear		Min.
Sampling Condition:	In GFA and PTFE Filter Paper	Sample Receipt Date:	19/11/2018
Equipments Details:	RDS and ADS Fine Dust Sampler	Test Start Date:	19/11/2018
Monitored By:	Mr. D. Deka	Test End Date:	26/11/2018

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	75	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	43	60	CPCB Guidelines
3	Sulphur Dioxide (SO ₂)	µg/m ³	6	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	10	80	IS 5182(VI)
5	Lead (Pb)	µg/m ³	<0.01	1	IS 5182(22)

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

Authorised by: Lab -in-Charge

Blahon
(Dr. Belinda Lahon)

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Format No.: GEEC/FM/48

TEST REPORT

URL NO.: TC599118000000216F			
Test Report No:	GEEC/AAQM/2018/11/06	Date of Reporting:	28/11/2018
Customer Name:	Agartala Gas Turbine Combined Cycle Power Plant	Lab. ID No.:	GEEC/AA/2018/11/06
Customer Address:	Agartala Gas Turbine Combined Cycle Power Plant Ramchandranagar PO NEEPCO, Agartala, Tripura (W)-79908	Date of Sampling:	16/11/2018 to 17/11/2018
Sampling Location:	Near Power House	Ambient Temperature:	Max.
Wind Direction/ Weather Condition:	Calm and Clear		Min.
			25.1°C 16.7°C
Sampling Condition:	In GFA and PTFE Filter Paper	Sample Receipt Date:	19/11/2018
Equipments Details:	RDS and ADS Fine Dust Sampler	Test Start Date:	19/11/2018
Monitored By:	Mr. D. Deka	Test End Date:	26/11/2018

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	72	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	40	60	CPCB Guidelines
3	Sulphur Dioxide (SO ₂)	µg/m ³	7	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	12	80	IS 5182(VI)
5	Lead (Pb)	µg/m ³	<0.01	1	IS 5182(22)

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

Authorised by: Lab-in-Charge

(Dr. Belinda Lahon)

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Format No.: GEEC/FM/49

TEST REPORT

URL NO.: TC599118000000219P

Ref. No.: GEEC/W/2018/11/06

Customer Name:	Agartala Gas Turbine Combined Cycle Power Plant	Date of Reporting:	28/11/2018
Customer Address:	Agartala Gas Turbine Combined Cycle Power Plant Ramchandranagar PO NEEPCO, Agartala, Tripura (W)-79908	Lab. ID No.:	GEEC-WS/18/11/06
Sampling Location:	Boiler 1 & 2 (Outlet)	Date of Sampling:	17/11/2018
Sample Description:	Water	Sample Receipt Date:	19/11/2018
Sample Drawn By:	Mr. D. Deka	Test Start Date:	19/11/2018
Sample Condition:	Sealed	Test Completion Date:	26/11/2018
		Sampling Method:	GEEC/SOP/02

Sl. No.	DESCRIPTION	METHOD	UNIT	RESULTS	LIMITS
1	pH	APHA 22nd Edition, 2012	-	9.01	IS:10496- 1983
2	TDS	APHA 22nd Edition, 2012	mg/l	BDL	8.5-9.5
3 [#]	Total Hardness as CaCO ₃	APHA 22nd Edition, 2012	mg/l	BDL	0.05
4	Iron	APHA 22nd Edition, 2012	mg/l	<0.01	Nil
5 [#]	Conductivity	APHA 22nd Edition, 2012	mg/l	0.01	0.3
6	Chloride	APHA 22nd Edition, 2012	mg/l	2	4

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

Authorised by: Laboratory In-charge

Belinda Lahon
(Dr. Belinda Lahon)

- * The results relate only to the item tested.
- * BDL = Below Detection Limit, TDS = 1 mg/l, Hardness = 1 mg/l.
- * The parameter marked with * are not under the scope of NABL.
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PAGE 1 of 1

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Format No:GEEC/FM/47A

URL NO.: TC599118000000234F			
Report No:GEEC/FL/22/SLM/2018/11/5/02		Date:	05/12/2018
Name of the Industry	Agartala Gas Turbine Combined Cycle Power Plant	Lab Id.:	GEEC/SLM/2018/11/05
Address		NEEPCO Limited, AGTCCPP, Ramchandranagar, Tripura (West)	
Noise Level Report			
Monitoring Location:	Plant	Date of Monitoring:	17/11/2018
Weather/Wind:	Calm & Clear	Sound Level Meter Model	SLM-100, Envirotech
Monitored By:	Mr. Dilip Deka	Sl.No.	13-DTH-2007
Calibration certificate No:	ECL/GTEE/2018-19/MECH/1115	Calibration valid upto:	12/07/2019
Measurement Results			
Sl. No.	Location	Sound Parameters Leq (dBA)	
1	Machin Hall Unit	86.4	
2	Between Boiler 2 & 3	83.2	
3	Between Boiler 1 & 2	82.8	
4	Between Boiler 3 & 4	80.6	
5	Near DM Water Plant	74.6	
6	Cooling Tower	89.6	
7	STG 2 Turbine -2	93.4	
8	GT corridor	71.4	
9	GT Control Room	63.4	
10	Machine Hall Front	69.8	
11	Plant Gate	60.8	
		Authorised by: CEO  (Pranjal Buragohain)	

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Page 01/01

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Format No:GEEC/FM/47A

URL NO.: TC599118000000220F			
Report No:GEEC/FL/22/SLM/2018/11/5/01		Date:	05/12/2018
Name of the Industry	Agartala Gas Turbine Combined Cycle Power Plant	Lab Id.:	GEEC/SLM/2018/11/05
Address		NEEPCO Limited, AGTCCPP, Ramchandranagar, Tripura (West)	
Noise Level Report			
Monitoring Location:	Office & Residential Area	Date of Monitoring:	17/11/2018
Weather/Wind:	Calm & Clear	Sound Level Meter Model	SLM-100, Envirotech
Monitored By:	Mr. Dilip Deka	Sl.No.	13-DTH-2007
Calibration certificate No:	ECL/GTEE/2018-19/MECH/1115	Calibration valid upto:	12/07/2019
Measurement Results			
Sl. No.	Location	Sound Parameters Leq (dBA)	
		Day Time	Night Time
1	Guest House	52.6	44.4
2	B Type (B9AB & B4A/B)	51.6	39.6
3	Main Gate	55.0	37.8
4	Park	54.5	42.4
5	Recreation Club	52.7	38.6
6	Near WTP Gate	50.8	40.2
7	Near A type (34 A/B)	54.6	37.8
8	Near A type (39 A/B & 36 A/B))	53.8	38.2
9	Shiv Mandir Area	50.9	37.8
10	Near C Type (C-10/11)	52.6	38.6
11	Near Welfare Centre	54.8	37.8
12	Near C Type (C-1)	53.8	38.6
Remark:		Noise level recorded are complied with the CPCB Limit Day time Leq < 55 dBA and Night Time < 45 dBA	
		Authorised by: CEO (Pranjal Buragohain)	

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Page 01/01

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