



नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लि  
NORTH EASTERN ELECTRIC POWER CORPORATION LTD  
(A GOVT OF INDIA ENTERPRISE)  
**ASSAM GAS BASED POWER PLANT**  
BOKULONI, DIBRUGARH, ASSAM, 786191



ISO 14001: 2015  
ISO 9000: 2015  
ISO 45001: 2018

No. NEEPCO/AGBPS/HOP/2025-26/C-14/

15

Dated 28/04/2025

To,

The Joint Director(s)  
Ministry of Environment, Forest & Climate Change,  
North Eastern Regional Office  
LAW-U-SIB, Lumbatngen,  
Near MTC Workshop  
Shillong 793021.

Email – [moefro.shillong@gov.in](mailto:moefro.shillong@gov.in)

Sub: Six monthly Environment Monitoring Report.

Ref: 1. Your letter No. RO-NE/E/IA/AS/GPP/2/597-98 DTD. 31<sup>ST</sup> May 2007.  
2. Your letter No. RO-NE/E/IA/AP/HEP/2/1554 Dtd. 18<sup>th</sup> July 2008.  
3. Your letter No. RO-NE/E/IA/AP/GPP/2/3093 Dtd. 10<sup>th</sup> February 2016  
4. Your letter No. RO-NE/E/IA/AS/GPP/2/2699 Dtd. 7<sup>th</sup> November 2017

Sir,

The half yearly reports on environment monitoring (for the period from 1<sup>st</sup> October 2024 to 31<sup>st</sup> March 2025) comprising of the following is attached along with the soft copy of the same. The soft copy is being sent through e-mail for your information and needful please.

1. Monitoring Proforma Part – I, II & III.

Thanking you,

Encl: As stated above.

Yours faithfully

(Opang Ering)

CGM(Tech)/ Head of Plant  
AGBPS, NEEPCO Ltd.,



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MEMO NO. NEEPCO/AGBPS/HOP/2025-26/C-14/

16-17

Dated 28/4/2028

Copy to:

1. The Director, Ministry of Environment & Forest, Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi - 110 003 for favour of kind information please.
2. The IRO, Guwahati, Ministry of Environment, Forest & Climate Change, 4<sup>th</sup> Floor, Housefed Building, GS Road, Rukmini Gaon, Guwahati for favour of kind information please [iro.guwahati-mefcc@gov.in](mailto:iro.guwahati-mefcc@gov.in)

(Opang Ering)

CGM(Tech)/ Head of Plant  
AGBPS, NEEPCO Ltd.,

# MONITORING PROFORMA

## PART-I

### DATA SHEET

1	Project type: River Valley / Mining Industry / Thermal / Nuclear / Others (Specify):	Natural Gas Based Power Station.
2	Name of the Project:	Assam Gas Based Power Station, NEEPCO Ltd., Bokuloni, Dist. Dibrugarh, Assam
3	Clearance letter(s) /OM No. & date:	No: J-13011/1/86 – IA dated 28.04.86 & 29.05.92
4	Locations:	
a	District(s)	Dibrugarh
b	State(s)	Assam
c	Latitudes/Longitudes	27° 19' 59" N/95° 24'33" E
5	Address of correspondence:	
a	Address of concerned Project Chief Engineer (with PIN Code & telephone / telex / fax numbers).	Head of Plant, AGBPS, NEEPCO Ltd., P.O. Bokuloni, Dist. Dibrugarh, Assam PIN 786 191 Phone No.0374 2825216.
b	Address of Executive Project Engineer/ Manager (with PIN Code & Telephone / telex / fax numbers).	Head of Plant, AGBPS, NEEPCO Ltd., P.O. Bokuloni, Dist. Dibrugarh, Assam PIN 786 191 Phone No.0374 2825216.
6	Salient features:	
a	Project	<ol style="list-style-type: none"> <li>1. Installed capacity-291 MW (6 Nos. GTG each of 33.5 MW capacity with auxiliaries &amp; 3 Nos. STG of 30 MW capacity each with auxiliaries),</li> <li>2. 10 Km. long water conduit to draw water from River Buridihing,</li> <li>3. 30 mtr. High chimneys.</li> </ol>
b	Environmental management Plan	<p>The following EMP had been conceived during the design stage and are in place:</p> <ol style="list-style-type: none"> <li>1. Disposal of treated effluent after achieving required parameter only.</li> <li>2. Control of air pollution (NO<sub>x</sub>) by steam injection and monitoring the same</li> <li>3. Control of sound pollution by enclosures on equipment.</li> <li>4. Development of greenery/green belt.</li> </ol>
7	Breakup of the project area:	
a	Submergence area (forest & non /forest).	NIL
b	Others.	Govt. Grazing land:
		Land of Colony area = 40.34 acres.
		Land of plant area = 61.82 acres.
		Additional land for security = 7.42 acres. <b>TOTAL AREA= 109.58 acre</b>
8	Break up of project affected population with enumeration of those losing Houses / dwelling Units and agricultural Land and landless labourers / artisans.	
a	SC, ST / Adivasis.	Nil
b	Others	Nil
9	Financials details:	



a	Project as originally planned and subsequent revised estimates and years of prime reference.	Estimated cost Rs. 203.17 Crore. Final revised cost Rs. 1532.32 Crore (Including IDC Rs. 152.81 Crore & WCM Rs.16.75 Crore).
b	Allocation made for environmental Management plans with item-wise Break and year wise break up.	Total expenditure for environmental up gradation, protection of environment and pollution control for the year <b>2024-2025 is Rs. 33 Lakh</b> (approx.) excluding statutory payment.
c	Benefit cost ratio/internal rate of return and the year of assessment	Not evaluated.
d	Whether (c) includes the cost of environmental management as Shown in (b) above	N.A.
e	Actual expenditure incurred on the Project so far	Rs. 1859.89 Crore (including IDC & WCM)
f	Actual expenditure incurred on the environmental management plans so far.	<b>Rs. 33 Lakh</b> (approx.) excluding statutory payment for the year 2024-2025
10	Forest land requirement:	
a	The status of approval for a Diversion of forest land for non-forestry use	N.A.
b	The status of compensatory afforestation, if any	N.A.
c	The status of clear felling	N.A.
d	Comments of the viability and sustainability of compensatory Afforestation program in the light of actual field experience so Far.	N.A.
11	The status of clears felling in non-forest areas (such as submergence areas of reservoir, approach roads) if any, with quantitative information.	N.A.
12	Status of construction	
a	Date of commencement (actual and/or planned)	March '95 (Actual)
b	Date of completion (actual and or Planned).	All units were commissioned by July '98 (Actual)
13	Reason for delay if the project is yet to start	N.A.

**COMPLIANCE CHECKLIST**

Clearance letter No. and date: J-13011/1/86 – 1A dated 28.04.86 &amp; 29.05.92

Conditions (in brief)	Status of compliance
1. Alternative grazing land to be provided.	Complied
2. Fuel need for construction workers to be met by project authorities.	Complied.
3. 50% of the site to be maintained as green belt	At present 50.98 % (55.51 acres) of the total area of the site is under greenery coverage.
4. No forest land to be acquired.	Complied
5. Natural gas to be used as feedstock	Complied.

**Report on status of compliance to the conditions given on environmental clearance and environmental management.**

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**A. Compliance to conditions of environmental clearance**

**Condition (i):** Alternative grazing land should be provided.

**Status of compliance:** Alternative grazing land provided by the Corporation as per EC condition is presently used by the local people as playground hence another land owned by the corporation adjacent to earlier one is developed and allowed to utilize as grazing land for the local people.

**Condition (ii):** Fuel need for construction workers should be met by the project authorities to remove the possibility of denudation of forests for want of firewood.

**Status of compliance:** Complied.

**Condition (iii):** 50% of the site proposed for the plant should be maintained as greenbelt

**Status of compliance:** Presently **50.98%** of the total allotted area of the project site is under greenery coverage including green belt.

Number of survived trees at project site is 7056 with a plantation density of 64.39 Nos. of trees per acre.

**Condition (iv):** No forest land should be acquired either for the plant or for the colony.

**Status of compliance:** Complied.

**Condition (v):** Natural gas should be used as feedstock.

**Status of compliance:** Complied.

**B. Report on the aspects of environment management**

The following measures have been taken at AGBPS to safeguard the environment:

**1. Air Pollution Control:**

For controlling of NO<sub>x</sub>, Steam Injection system in 6(six) nos. of Gas Turbine has been incorporated. 6 Nos. 30-meter-tall bypass stack 6 Nos. 30-meter-tall chimneys are provided to ensure wider dispersal of pollutant resulting in low ground level concentration of pollutant. NO<sub>x</sub>, Sox emission of the plant is within permissible limit.

**2. Noise Pollution Control:**

- a) Each gas turbines and steam turbines along with turbine generators are provided with special type of enclosures to arrest noise pollution.
- b) Silencers are provided on all inlet plenums to gas turbines and exhaust of all diesel & gas driven unit and safety valves of boilers.
- c) In Gas Booster Station, the building is designed with a wall thickness of 225 mm to control the noise within the permissible limits. Thick plantation is done on back-side of GBS building to arrest the noise.
- d) Measures were taken during construction stage to locate all noise emitting equipment in the windward direction to minimize sound pollution to the adjoining population.
- e) Ear plug & ear mufflers are provided to all employees, who are working in GBS and other high noise areas.



3. **Water Pollution Control:**

- a) Neutralization pit for neutralizing the regeneration waste (to maintain the pH of waste water in between 6.5 to 8.5) has been provided.
- b) Effluent treatment plant for treatment of effluent generated from sludge from Clariflocculators, sludge generated from filter backwash, neutralizing pit and blowdown from cooling towers has been provided.
- c) Cooling towers for cool down the recycling cooling water has been provided.
- d) 75 KLD Sewage Treatment plant was installed for treatment of water discharged from the colony.

The plant conforms to zero effluent disposal stipulations as only clear water having pH of 6.5-8.5 with suspended solid less than 100 ppm is allowed to leave the plant premises.

4. **Monitoring System:**

- a) Continuous emission monitoring system is installed in gas turbine unit for real time monitoring the value of emission like NOX, SOX, and SPM. This has been linked with CPCB and Assam PCB. Server.
- b) On line Effluent monitoring system is also installed at AGBP which is also linked with the server of CPCB as well as Assam PCB.
- c) In addition to regular in-house monitoring, 3<sup>rd</sup> party monitoring of parameter of discharged effluent/ sludge generated from ETP is also done on quarterly basis through PCB approved laboratory.
- d) Ambient air quality monitoring is also done in plant as well as colony premises from PCB authorized 3<sup>rd</sup> party.
- e) In-house Noise measurement is also done on quarterly basis.


5. **Rain water harvesting:** To reduce the water drawl from river Buridihing, surface runoff of switchyard area is collected and pumped out to raw water reservoir.

6. **A Hazardous Waste Pit** is also developed at AGBPS plant premises as per guidelines of PCB for disposing the waste which cannot be disposed through authorized recycler.

7. On-site composting is encouraged for disposal of biodegradable waste generated in plant as well as colony premises. In addition to that a vermicompost plant is developed at our nursery.

8. All waste generated in the plant, hazardous or others are disposed as per procedure mentioned in concerned Rule.

9. 10 (Ten) numbers of Green Belt are developed at AGBPS. Roads arboriculture are well maintained. Plantation density of AGBPS is more than 64 trees per acre of land.

  
(Opang Ering)  
CGM(Tech) / Head of Plant  
AGBPS: NEEPCO Ltd.