नॉर्थ इस्टर्न इलेक्ट्रिक पावर कॉरपोरेशन लिमिटेड
(भारत सरकार का संस्थान)
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
(A Govt.of India Enterprise)
Assam Gas Based Power Plant
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 191
Ph. 0374-2825216, EPABX 2825207/2825423/2825208 FAX : 0374-2825349/2825217
E-mail : agbp.bokuloni@gmail.com

ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007

Dial 1219 for Complaints on Electric

Ref. No. ...NEEPCO/AGBP/HOP/2019-20/T-1/ 402

Date. 7/11/19

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

Sub: **Six monthly Environment Monitoring Report.**

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

Dear Sir,

The six monthly reports on environment monitoring (for the period from 1st April, 2019 to 30th September, 2019 comprising of the following is attached along with the soft copy of the same. The soft copy is 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

7/11/19

(H. K. Changmai)
Chief General Manager/
Head of Project, AGBP,
NEEPCO Ltd, Bokuloni.

MEMO NO. NEEPCO/AGBP/HOP/2019-20/T-1/ Dated

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.

(H. K. Changmai)
Chief General Manager/
Head of Project, AGBP,
NEEPCO Ltd, Bokuloni

T-I

MONITORING PROFORMA
PART- I

DATA SHEET

1	Project type: River Valley / Mining Industry / Thermal / Nuclear / Others (Specify):	Gas Based Power Plant.
2	Name of the Project:	Assam Gas Based Power Plant, 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	27º 19' 59"N/95º 24'33"E
5	Address of correspondence:	
a	Address of concerned Project Chief Engineer (with PIN Code & telephone / telex / fax numbers).	Head of Project, AGBP, NEEPCO Ltd., P.O. Bokuloni, Dist. Dibrugarh, Assam PIN 786 191 Phone No.0374 2825216. Fax No. 0374 2825349.
b	Address of Executive Project Engineer/ Manager (with PIN Code & Telephone / telex / fax numbers).	DGM (E/M), O/O the HOP, AGBP, NEEPCO Ltd, Bokuloni PIN 786 191 Phone No.0374 2825212
6	Salient features:	
a	Project	291 MW (6 Nos. GTG with auxiliaries & 3 Nos. STG with auxiliaries), 10 Km. long water conduit from River Buridihing, 30 mtr. high chimneys.
b	Environmental management Plan	Disposal of effluent after treatment only, control of air pollution (NO_x) by steam injection, control of sound pollution by enclosures on equipment & green belt etc. had been conceived during the design stage and are in place.
7	Break up 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 = 6.62 acres.
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.	N.A.
b	Others	N.A.
9	Financials details:	
a	Project as originally planned and subsequent revised estimates and years of prime reference.	Estimated cost ₹ 203.17 Crore. Final revised cost ₹ 1532.32 Crore (Including IDC ₹ 152.81 Crore & WCM ₹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 and pollution control for the year 2019-20 is ₹ 32 Lakh (approx.). One continuous emission monitoring system is installed for monitoring the NOX, SOX, SPM & Effluent monitoring system at AGBP Plant
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	₹ 1532.32 Crore (including IDC & WCM)
f	Actual expenditure incurred on the environmental management plans so far.	₹ 32 Lakh for the year 2019-20
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 programme 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 commissioned by July '98 (Actual)
13	Reason for delay if the project is yet to start	N.A.

PART – II

COMPLIANCE CHECKLIST

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

Conditions (in brief)	Status of compliance
1. Alternative grazing land to be provided.	Acquiring land for the purpose may be condoned.
2. Fuel need of construction workers to be met by project authorities.	Complied.
3. 50% of the site to be maintained as green belt	At present 50.66 % (55.51 acres) of the total area of the site is under green belt.
4. No forest land to be acquired.	Complied
5. Natural gas to be used as feedstock	Complied.

PART – III

Descriptive report on status of compliance to conditions of environmental clearance and environmental management.

A. Compliance to conditions of environmental clearance

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

Status of compliance: The land owned by Corporation, presently used as playground adjacent to the colony area is being used as grazing land by the nearby villagers. As such, the requirement of alternative grazing land may be condoned.

Condition (ii): Fuel need of 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 green Belt

Status of compliance: At present 50.66% of the total area of the site is under green belt.

At present there are approximately 6618 trees in this site of 109.58 acres i.e a plantation density of 60.39 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. Descriptive report on the aspects of environment management not specifically covered above.

The following measures have taken at AGBP to safeguard the environmental requirements.

1. Air Pollution Control: For controlling of NOx, Steam Injection system in 6(six) nos. of Gas Turbine has been incorporated for a total cost of ₹ 491.4 Lakh, chimneys are provided with adequate insulations upto 18 mtrs.

2. Noise Pollution Control:

a) Each gas turbines and gas turbine generators are provided with special type of enclosures for controlling of noise pollution. For this purpose an amount of ₹ 214.63 Lakh has been incurred till date.
b) Exhaust and Inlet Air System are specially designed and provided with silencers for controlling of the noise pollution. For this purpose an amount of ₹ 291.14 Lakh for 2(two) numbers of BHEL machines has been incurred till date.
c) In Gas Booster Station, the building is designed with a wall thickness of 225 mm to control the noise within the permissible limits.
d) Ear mufflers are provided to all employees, who are working in GBS and other essential areas. For this, an amount of ₹ 0.015 Lakh has been incurred till date.

3. Water Pollution Control:

a) Neutralisation pit including acid proof tiles, brick lining under D.M. plant has been provided. For this purpose an amount of ₹ 29.07 Lakh has been incurred.
b) Effluent treatment plant has been provided. For this purpose an amount of ₹ 293.00 Lakh on civil works has been incurred and an amount of ₹ 999.60 Lakh against mechanical/electrical items of the effluent treatment plant has been incurred.

3. One continuous emission monitoring system was installed for monitoring the NOX, SOX, SPM & Effluent monitoring system at AGBP Plant for an amount of ₹ 176 Lakh only. Data of the above system can be accessible on State Pollution Control Board website. As desired by you one current data sheet of the same is enclosed for your ready reference please.

(H. K. Changmai)
CGM & HOP
AGBP: NEEPCO Ltd.

Stack - 1

24 hrs Average data of NOx PPM

	01-10-2019	02-10-2019	03-10-2019	04-10-2019	05-10-2019	06-10-2019	07-10-2019	08-10-2019	09-10-2019	10-10-2019	11-10-2019	12-10-2019	13-10-2019	14-10-2019	15-10-2019	16-10-2019	17-10-201
01:00:00	20.5	19.4	29.0	30.0	28.6	29.8	32.9	31.1	32.1	31.9	31.5	28.7	29.8	31.9	32.0	33.0	32.1
02:00:00	20.1	20.8	28.5	30.7	27.6	31.0	30.9	31.2	20.6	31.8	28.7	30.6	30.4	32.4	31.2	31.5	30.9
03:00:00	19.8	20.7	29.8	30.2	29.6	29.9	27.3	30.8	20.9	33.0	28.7	30.7	29.0	32.3	30.5	32.6	32.0
04:00:00	20.1	20.3	28.1	30.3	28.1	31.0	26.4	32.1	19.1	33.4	28.5	28.7	30.1	32.1	30.9	31.1	31.1
05:00:00	20.4	21.1	27.8	31.7	27.4	30.3	26.4	32.0	21.6	33.8	28.3	30.2	31.6	34.1	30.9	31.8	31.6
06:00:00	19.2	20.9	28.0	30.7	31.5	30.9	25.7	30.4	32.3	31.3	31.5	29.5	31.3	32.3	30.3	30.9	31.4
07:00:00	30.8	21.9	30.7	30.2	32.3	29.5	29.1	31.3	32.8	33.1	32.6	31.3	29.6	33.2	29.6	30.9	32.3
08:00:00	31.2	21.4	31.0	31.5	30.6	32.4	33.3	31.1	31.5	29.8	32.4	32.0	32.0	32.5	30.8	32.1	31.5
09:00:00	32.1	21.7	32.1	32.5	28.7	29.2	32.1	32.1	31.8	29.9	32.1	33.7	34.1	32.4	32.2	32.5	32.2
10:00:00	33.8	20.5	35.0	32.9	28.3	30.1	30.5	33.4	32.4	30.4	33.6	33.8	32.8	32.0	32.3	34.9	31.8
11:00:00	26.7	20.6	31.5	31.1	28.2	32.3	31.2	21.6	33.6	34.1	35.1	31.8	32.1	32.7	32.1	33.2	33.8
12:00:00	27.9	20.2	33.5	30.4	30.4	20.4	22.1	22.2	30.0	32.9	32.3	31.8	33.4	31.2	33.9	34.2	33.7
13:00:00	28.1	20.5	31.3	31.5	31.5	20.7	22.0	23.6	31.3	31.2	32.9	32.5	31.4	33.7	36.8	32.1	31.2
14:00:00	27.3	20.5	31.8	31.9	31.7	21.5	22.4	24.8	31.5	31.7	33.2	32.9	33.4	33.1	34.2	26.9	31.8
15:00:00	26.8	19.9	31.0	31.7	30.6	21.5	26.4	21.6	31.1	31.9	32.2	31.0	33.0	33.0	34.3	33.9	33.5
16:00:00	23.6	20.5	33.4	31.7	32.1	20.3	23.5	20.0	32.2	32.6	31.2	31.0	31.6	31.6	32.7	32.2	32.1
17:00:00	22.9	19.5	31.0	31.8	28.2	28.8	30.5	20.5	31.2	32.7	31.5	29.8	30.8	33.4	34.2	33.4	34.8
18:00:00	22.3	22.6	30.7	29.7	20.8	31.1	31.9	19.2	43.8	33.6	31.3	29.8	30.2	33.6	33.2	32.0	31.6
19:00:00	21.7	24.8	30.3	30.4	20.2	29.3	29.6	20.2	40.0	32.2	27.8	28.6	31.5	30.8	31.4	31.6	31.1
20:00:00	22.5	31.1	29.9	29.8	22.3	31.0	30.8	30.0	41.2	31.8	29.1	27.4	30.1	32.0	31.2	30.6	30.3
21:00:00	21.8	30.4	28.9	29.0	40.1	30.7	32.9	22.9	42.9	32.0	27.7	29.0	29.8	30.1	33.1	31.7	32.5
22:00:00	20.3	29.2	30.1	29.9	30.9	29.5	30.6	26.6	40.6	31.2	28.5	28.8	28.3	32.5	33.0	32.1	32.0
23:00:00	20.5	28.1	28.8	31.1	28.4	30.7	31.6	32.5	35.4	33.0	29.9	29.7	30.6	30.4	31.7	32.5	32.9
24:00:00	20.2	28.5	28.4	32.6	30.3	31.9	31.8	32.7	31.4	32.2	28.9	30.1	29.5	30.9	30.9	31.0	33.6

Nevco Engineers Pvt. Ltd. 2019.

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PTO →

24 hrs Average data of NOx PPM

	18-10-2019	19-10-2019	20-10-2019	21-10-2019	22-10-2019	23-10-2019	24-10-2019	25-10-2019	26-10-2019	27-10-2019	28-10-2019	29-10-2019	30-10-2019	31-10-2019
01:00:00	30.7	29.8	30.6	19.5	19.6	33.6	30.9	32.6	20.8	23.0	20.0	32.2	28.4	30.2
02:00:00	29.5	28.4	31.8	20.0	20.2	31.2	31.8	33.3	20.5	23.0	18.8	33.1	28.1	23.7
03:00:00	28.0	28.2	31.0	19.7	19.9	33.5	32.4	32.6	20.8	24.6	19.8	31.9	27.4	22.7
04:00:00	29.6	30.1	30.8	19.7	20.2	32.4	31.4	33.0	20.9	23.1	19.2	31.7	29.5	23.4
05:00:00	29.9	28.2	31.5	20.0	20.5	33.6	30.6	34.0	19.7	24.5	19.0	32.1	27.7	22.7
06:00:00	29.5	28.7	31.4	21.2	19.3	34.4	30.4	32.3	21.2	23.2	19.6	34.1	27.7	23.5
07:00:00	29.9	28.3	33.0	19.7	20.0	33.0	30.5	33.3	23.1	22.8	31.2	32.1	28.8	23.8
08:00:00	29.9	28.6	21.0	19.2	20.7	31.7	32.5	33.3	25.2	23.1	25.6	32.3	31.2	26.4
09:00:00	32.3	31.2	19.9	20.9	19.7	32.6	34.6	33.2	31.8	23.4	31.3	32.5	31.6	27.3
10:00:00	33.7	32.7	21.2	19.3	18.5	32.7	36.0	32.6	29.4	24.3	23.0	34.2	35.2	25.3
11:00:00	35.7	33.6	19.8	19.1	19.9	31.6	34.4	33.6	30.4	23.5	21.8	33.5	33.8	27.2
12:00:00	35.1	34.2	20.8	19.8	19.8	35.8	35.2	32.7	19.3	23.5	22.4	33.9	33.0	28.5
13:00:00	33.0	32.1	20.6	20.8	19.2	32.9	32.5	22.4	18.6	22.9	20.6	34.1	31.2	27.2
14:00:00	33.7	33.9	21.7	20.2	21.3	29.1	31.9	20.4	19.6	23.8	24.3	24.3	33.8	29.5
15:00:00	33.3	31.4	21.4	20.1	20.6	32.3	32.1	30.8	18.1	24.5	21.1	25.3	34.4	26.3
16:00:00	34.2	32.5	20.3	20.7	21.6	33.8	32.7	33.5	19.5	23.0	18.4	30.1	34.1	28.7
17:00:00	31.1	31.6	20.4	18.9	21.1	33.7	31.1	34.3	24.1	28.0	31.5	34.2	33.9	29.8
18:00:00	33.4	29.2	21.0	20.2	20.4	33.8	32.3	21.8	27.2	24.8	32.0	33.4	32.4	26.4
19:00:00	31.3	31.0	20.0	19.4	18.8	31.4	30.9	23.3	27.7	32.3	27.6	32.1	31.7	25.6
20:00:00	31.3	30.1	19.5	19.6	19.3	31.3	29.9	22.0	26.2	32.0	29.1	33.2	31.7	29.0
21:00:00	30.7	30.4	19.6	20.1	19.9	30.8	28.0	24.0	23.6	24.8	31.3	31.8	29.5	27.8
22:00:00	31.6	29.7	19.1	19.4	19.4	32.0	33.3	20.4	24.3	24.9	33.2	29.1	29.3	28.4
23:00:00	30.6	31.3	18.9	19.2	33.7	31.0	32.7	20.8	23.0	21.9	34.7	28.1	26.9	29.3
24:00:00	29.2	30.6	19.4	19.2	33.6	30.5	34.2	20.6	23.1	22.2	32.1	26.8	27.9	29.5

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Nevco Engineers Pvt. Ltd. 2019.

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24 hrs Average data of NOx PPM

	01-10-2019	02-10-2019	03-10-2019	04-10-2019	05-10-2019	06-10-2019	07-10-2019	08-10-2019	09-10-2019	10-10-2019	11-10-2019	12-10-2019	13-10-2019	14-10-2019	15-10-2019	16-10-2019	17-10-201
01:00:00	21.7	22.8	36.2	33.3	31.5	34.4	33.9	35.4	34.0	35.7	36.6	36.1	35.1	34.8	36.9	34.8	35.6
02:00:00	22.5	23.4	35.0	34.0	31.5	35.1	35.1	34.4	22.7	35.8	33.2	36.5	35.7	35.5	36.9	35.1	33.9
03:00:00	22.5	23.7	36.2	34.4	34.6	34.7	34.0	34.4	22.6	31.8	32.0	37.2	35.9	37.3	37.1	33.3	34.7
04:00:00	22.1	23.3	35.9	35.2	31.6	34.6	34.6	35.2	22.0	32.0	32.6	36.9	36.2	37.0	35.8	35.6	35.3
05:00:00	22.1	24.0	35.6	35.8	31.3	35.5	34.1	35.2	23.7	33.1	33.7	36.9	37.5	36.2	37.8	34.9	34.5
06:00:00	24.0	23.9	35.1	34.8	34.7	34.8	34.1	34.4	35.0	33.0	35.6	35.9	37.4	37.1	37.4	34.7	34.2
07:00:00	35.0	23.0	36.6	34.8	35.9	35.0	34.5	34.2	36.8	32.5	36.1	35.8	36.8	37.4	36.0	35.7	34.5
08:00:00	35.7	24.0	35.3	34.9	35.7	34.4	34.3	35.6	36.3	32.9	38.0	37.0	36.2	36.4	36.7	35.9	34.9
09:00:00	35.3	24.2	35.3	34.7	31.5	34.7	35.6	35.5	37.7	32.3	36.8	36.1	35.3	36.1	36.0	36.2	36.0
10:00:00	34.6	22.9	35.6	34.6	33.1	34.4	35.7	35.1	35.3	34.8	37.7	36.5	35.9	35.9	35.7	35.3	36.1
11:00:00	31.5	22.7	35.7	34.2	35.5	35.1	34.3	25.1	34.2	35.9	35.8	35.4	36.2	36.6	35.9	32.6	35.1
12:00:00	32.7	22.9	35.6	33.4	34.1	23.1	25.5	24.8	36.4	35.1	34.6	35.3	36.2	36.1	35.5	32.6	35.1
13:00:00	33.3	23.6	34.5	34.0	34.7	21.3	20.5	23.0	36.3	35.0	35.1	35.5	34.2	36.3	34.4	33.2	35.3
14:00:00	31.5	23.4	34.5	33.2	35.0	21.1	17.0	25.8	35.1	35.6	33.8	35.8	34.6	34.9	36.3	29.1	35.0
15:00:00	29.8	24.0	34.3	33.2	34.3	21.6	20.4	22.6	35.3	34.4	34.1	35.2	35.9	34.7	35.2	35.5	35.5
16:00:00	26.4	23.8	34.3	33.2	32.8	21.9	27.6	22.0	36.4	34.7	34.6	35.9	35.6	34.5	34.8	34.4	35.0
17:00:00	26.3	22.8	34.2	32.7	4.9	32.3	30.9	21.5	20.5	37.1	33.7	35.4	35.4	34.8	34.7	34.6	34.2
18:00:00	26.0	22.1	34.2	34.0	2.6	33.1	35.6	21.3	22.0	35.9	35.0	35.9	34.1	35.1	34.6	35.6	34.9
19:00:00	25.5	26.8	34.6	34.1	2.5	33.1	34.4	21.5	22.3	35.6	35.0	35.5	35.9	34.4	34.8	34.9	34.3
20:00:00	26.4	34.4	34.5	34.3	14.1	32.7	34.2	32.0	18.2	34.5	34.9	34.8	34.5	35.2	33.0	34.9	35.2
21:00:00	25.0	35.4	33.4	34.0	31.0	33.4	36.7	25.0	23.6	34.6	35.0	34.4	35.9	35.6	35.1	33.9	35.2
22:00:00	24.4	35.0	34.8	33.8	33.9	34.0	35.4	29.5	25.1	34.7	35.7	34.4	34.8	37.0	34.6	34.6	34.8
23:00:00	25.1	35.7	32.7	33.8	34.6	33.9	35.0	33.4	34.7	35.8	35.9	35.3	36.9	35.8	34.6	35.1	35.6
24:00:00	24.5	35.7	34.4	35.2	35.0	33.4	35.8	33.0	35.3	36.5	36.5	36.7	36.8	36.0	33.9	35.3	36.7

Nevco Engineers Pvt. Ltd. 2019.

Server Current Date & Time 07-Nov-2019 16:18

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PTO →

verage Report - Real-Time Data Monitoring System - State Pollution Control Board, Assam

24 hrs Average data of NOx PPM

	18-10-2019	19-10-2019	20-10-2019	21-10-2019	22-10-2019	23-10-2019	24-10-2019	25-10-2019	26-10-2019	27-10-2019	28-10-2019	29-10-2019	30-10-2019	31-10-2019
01:00:00	28.9	27.4	34.5	21.3	23.1	39.0	35.8	40.4	23.4	27.5	24.4	38.3	29.9	33.0
02:00:00	28.2	27.2	36.4	21.0	22.9	39.3	36.7	38.5	23.3	27.3	22.2	38.1	30.2	28.6
03:00:00	28.0	26.3	35.3	20.4	21.8	38.9	36.1	39.5	24.0	28.8	22.2	39.0	30.4	28.2
04:00:00	28.5	26.9	35.9	20.7	22.2	39.3	35.5	38.9	23.2	27.9	21.7	38.8	29.3	29.6
05:00:00	27.9	26.0	34.5	21.2	23.8	39.5	35.7	40.6	22.8	28.1	21.4	37.8	30.0	27.9
06:00:00	28.2	26.0	35.3	21.6	23.2	38.7	36.5	38.8	23.9	28.5	21.4	38.3	30.6	28.7
07:00:00	27.8	27.1	36.1	21.9	21.8	38.7	36.4	41.1	30.4	26.8	34.3	38.9	33.8	29.6
08:00:00	29.7	29.8	24.5	22.9	21.9	38.4	38.3	38.8	28.5	28.6	26.4	38.3	36.8	33.0
09:00:00	35.0	35.4	21.6	21.6	22.9	32.6	38.5	40.0	37.3	28.6	28.9	36.2	37.2	33.3
10:00:00	35.8	36.3	20.9	22.4	22.5	34.5	39.0	39.0	34.6	27.8	28.6	37.2	38.1	34.9
11:00:00	36.8	36.3	21.8	21.3	22.5	35.2	39.1	40.7	31.2	28.0	23.6	38.5	36.6	34.5
12:00:00	37.0	36.8	21.7	22.2	22.1	38.1	38.3	39.5	21.0	28.5	25.9	37.8	38.1	33.6
13:00:00	35.2	35.8	21.3	22.1	22.2	37.0	36.7	26.1	21.1	28.0	24.5	35.7	37.8	33.1
14:00:00	34.2	34.2	21.8	21.7	22.1	32.7	35.1	23.8	20.9	26.6	24.5	26.7	36.7	34.3
15:00:00	34.7	35.2	22.1	22.3	22.0	36.6	36.4	37.6	20.0	26.9	22.8	27.4	37.3	29.3
16:00:00	36.4	36.6	22.2	22.6	21.3	37.1	37.3	37.9	21.3	27.4	20.8	32.4	35.6	29.1
17:00:00	35.7	36.2	22.2	23.0	22.8	37.3	38.1	37.6	27.6	32.7	33.2	36.7	36.5	33.4
18:00:00	35.2	35.1	21.7	22.5	22.5	35.7	36.0	26.8	34.8	29.4	36.5	37.7	36.7	29.6
19:00:00	36.7	35.2	22.2	22.9	22.8	36.3	38.0	27.4	36.7	36.8	32.2	36.4	36.7	29.2
20:00:00	36.3	35.2	21.5	22.2	22.5	36.4	39.1	27.8	33.1	37.7	34.8	36.7	36.6	33.0
21:00:00	36.4	36.1	21.5	22.3	23.3	36.0	40.0	27.1	27.7	30.8	37.3	37.5	33.6	34.6
22:00:00	36.3	36.8	21.7	23.0	23.4	36.3	37.7	24.7	28.4	27.4	34.9	29.4	34.8	34.8
23:00:00	35.5	35.4	21.1	23.3	35.6	36.5	39.0	23.4	27.7	27.5	35.9	30.4	31.0	36.3
24:00:00	31.7	35.5	22.0	23.1	37.1	36.7	39.0	23.5	28.2	26.4	38.3	29.8	31.2	35.0

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Nevco Engineers Pvt. Ltd. 2019.

Server Current Date & Time 07-Nov-2019 16:19

Stack - 3

24 hrs Average data of NOx PPM

	01-10-2019	02-10-2019	03-10-2019	04-10-2019	05-10-2019	06-10-2019	07-10-2019	08-10-2019	09-10-2019	10-10-2019	11-10-2019	12-10-2019	13-10-2019	14-10-2019	15-10-2019	16-10-2019	17-10-201
01:00:00	19.5	18.3	29.8	34.3	30.1	36.4	26.6	36.0	29.3	34.4	34.6	32.7	32.6	31.1	38.1	34.9	33.9
02:00:00	27.2	18.3	30.9	34.5	29.0	37.1	26.4	35.0	18.9	30.3	30.0	36.4	34.2	33.8	36.0	35.0	35.8
03:00:00	26.8	18.7	31.8	32.6	31.8	25.3	25.6	34.7	19.9	27.2	28.2	34.0	36.8	33.7	36.8	36.6	35.8
04:00:00	29.9	19.9	30.8	34.1	34.8	26.9	31.0	34.3	19.8	27.7	30.0	33.1	33.1	32.2	35.8	35.3	34.3
05:00:00	31.7	19.6	30.8	35.0	34.0	30.9	29.7	33.4	20.4	28.4	28.8	33.3	31.4	34.1	34.8	34.7	35.4
06:00:00	28.9	17.6	31.3	33.0	33.2	31.6	34.9	35.8	34.1	27.8	30.3	33.2	37.6	34.9	32.8	37.2	35.1
07:00:00	35.5	19.0	34.2	33.6	33.0	32.8	31.6	34.6	34.2	28.7	31.2	33.3	35.0	32.9	36.0	39.6	35.7
08:00:00	35.0	18.2	36.0	34.8	35.1	30.9	34.7	35.8	33.2	27.9	33.0	34.5	35.1	35.8	36.3	32.7	35.5
09:00:00	34.1	18.7	34.9	34.0	32.4	31.8	35.2	34.3	33.5	28.6	34.9	35.4	35.2	32.9	35.1	38.8	37.4
10:00:00	31.7	18.9	34.9	36.3	34.6	33.4	36.0	35.1	32.2	30.7	34.3	34.8	34.7	34.5	34.3	37.1	34.7
11:00:00	27.1	19.0	34.3	35.0	35.5	33.5	32.1	19.0	30.7	33.3	36.2	34.3	32.7	35.9	33.9	31.5	35.2
12:00:00	27.2	17.8	34.4	33.2	32.5	20.6	26.0	20.2	33.4	33.5	33.9	34.7	34.9	33.4	34.5	31.5	34.6
13:00:00	26.5	19.1	34.2	33.4	33.8	19.4	36.7	20.4	33.8	29.9	38.6	34.8	34.5	36.3	41.0	35.5	35.1
14:00:00	26.8	19.9	37.3	34.2	38.6	19.4	32.1	26.0	33.1	28.3	35.4	35.9	37.5	36.4	38.7	29.4	35.1
15:00:00	25.0	19.5	34.8	34.1	35.6	19.1	31.8	20.3	25.8	33.0	34.9	33.1	34.7	35.6	36.0	35.7	34.9
16:00:00	19.9	20.2	32.6	34.1	35.5	18.7	23.3	19.5	28.1	34.0	34.4	34.9	34.0	32.8	34.2	34.2	35.3
17:00:00	19.4	19.8	31.9	35.0	33.3	28.5	29.9	20.2	32.4	33.5	32.7	33.7	33.5	34.7	33.6	36.3	34.9
18:00:00	18.0	19.7	31.6	38.4	32.8	33.4	32.9	20.5	32.5	33.7	31.8	32.3	34.4	33.4	34.1	34.9	36.1
19:00:00	19.5	26.7	31.4	33.7	35.3	34.3	32.9	20.7	33.3	32.9	32.6	34.4	30.6	34.9	35.8	35.8	35.7
20:00:00	19.2	28.4	32.4	33.6	35.0	31.1	33.0	33.7	35.1	33.4	33.3	33.4	26.1	33.3	35.2	35.5	37.0
21:00:00	18.5	29.0	32.0	34.1	33.8	25.3	33.2	27.8	33.8	32.6	34.1	33.8	27.2	32.9	35.5	38.9	37.1
22:00:00	18.3	28.4	33.1	33.2	34.1	25.7	32.7	32.4	33.3	35.1	32.0	32.1	30.5	34.0	34.9	37.5	35.5
23:00:00	19.0	34.1	32.6	32.8	34.1	24.6	34.5	36.6	33.9	36.0	32.6	34.1	31.4	36.4	35.5	34.4	36.8
24:00:00	18.5	32.5	34.5	31.9	33.8	25.7	35.3	36.4	32.4	36.0	33.5	34.8	32.1	35.3	34.5	33.7	35.7

Nevco Engineers Pvt. Ltd. 2019.

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24 hrs Average data of NOx PPM

	18-10-2019	19-10-2019	20-10-2019	21-10-2019	22-10-2019	23-10-2019	24-10-2019	25-10-2019	26-10-2019	27-10-2019	28-10-2019	29-10-2019	30-10-2019	31-10-2019
01:00:00	33.7	33.6	33.5	18.4	19.5	29.5	35.3	33.3	18.8	36.3	33.1	38.6	37.0	31.6
02:00:00	30.1	34.1	35.9	18.4	19.2	31.5	35.9	31.9	19.8	37.8	32.9	37.3	35.6	23.4
03:00:00	30.3	36.0	35.0	21.0	20.6	30.7	36.0	32.5	19.4	38.8	33.6	34.2	35.4	34.4
04:00:00	31.5	33.7	35.9	21.2	20.0	30.4	36.4	34.2	19.3	37.6	33.3	32.9	36.5	33.7
05:00:00	31.6	34.1	35.4	19.0	19.5	31.7	36.2	32.5	19.2	36.6	32.5	31.7	33.9	28.4
06:00:00	29.5	35.1	33.2	18.6	20.7	33.2	36.3	33.1	20.3	34.4	33.4	35.0	35.7	28.2
07:00:00	31.2	31.5	34.2	19.2	22.5	33.4	38.6	33.0	22.2	35.6	32.9	36.3	34.6	29.5
08:00:00	34.2	32.3	28.4	19.5	20.6	32.5	39.9	33.8	22.9	35.6	32.1	35.8	36.8	31.9
09:00:00	34.5	34.5	22.9	18.7	20.9	32.9	37.2	34.3	26.5	35.8	31.5	36.1	34.0	32.6
10:00:00	33.8	33.1	22.2	18.9	18.9	36.1	36.6	33.2	27.6	36.6	32.0	37.5	36.4	31.8
11:00:00	34.2	35.8	22.8	19.6	19.1	34.3	35.0	34.6	27.1	37.6	33.5	36.5	33.9	31.2
12:00:00	36.8	34.8	22.6	18.8	20.2	35.8	35.3	34.6	18.7	37.5	35.0	38.1	33.7	29.8
13:00:00	37.6	35.6	20.2	18.4	18.6	35.8	34.1	21.8	18.5	41.8	36.0	43.1	28.4	28.9
14:00:00	38.5	36.7	19.4	18.2	18.8	30.8	29.2	20.5	18.0	43.9	36.2	35.7	34.9	30.5
15:00:00	33.8	31.6	17.8	18.6	18.5	35.1	35.8	33.4	18.5	33.5	34.1	34.7	38.2	25.7
16:00:00	33.4	32.2	19.1	18.5	18.7	35.6	37.0	33.1	22.2	31.1	30.1	34.0	34.3	25.1
17:00:00	35.0	31.8	18.6	18.8	18.6	36.6	38.5	31.8	35.9	33.6	33.0	35.5	28.5	26.2
18:00:00	35.6	31.7	19.1	18.5	19.1	35.6	32.8	25.6	35.8	34.6	35.5	35.7	30.0	24.5
19:00:00	34.6	31.4	18.0	19.0	18.8	34.8	36.4	24.6	36.8	35.4	35.6	37.4	33.8	21.2
20:00:00	36.0	31.1	17.1	19.1	19.3	34.0	27.7	24.9	36.7	35.2	34.9	35.1	26.1	24.7
21:00:00	34.1	29.8	18.9	19.7	19.7	35.2	28.0	25.1	38.6	36.5	35.0	36.2	22.0	22.3
22:00:00	35.3	36.2	17.1	19.8	20.5	36.3	37.5	21.0	37.9	35.8	34.3	36.8	32.0	22.9
23:00:00	37.1	35.2	18.8	19.8	30.0	35.6	30.9	20.4	35.2	37.6	36.3	34.9	29.7	39.1
24:00:00	36.1	34.5	17.8	20.0	30.4	34.7	29.4	20.2	37.0	36.3	35.5	36.1	30.4	37.5

Nevco Engineers Pvt. Ltd. 2019.

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Hourly Average data of NOX PPM From 01-9-2019 To 31-9-2019

	STACK					
	1	2	3	4	5	6
01:00:00	21.9	17.7	17.1	30.1	38	29.5
02:00:00	22.1	17.7	17.2	35.4	42.2	23
03:00:00	22.4	17.7	17.5	31	36.7	28.7
04:00:00	21.9	17.9	17	46	37.7	21.8
05:00:00	22.3	17.6	16.1	26	39.1	23
06:00:00	22.8	17.9	17	47	38.5	31..8
07:00:00	23	18	18.1	23.8	27.3	42.9
08:00:00	21.9	16.5	17.9	28	27.8	49
09:00:00	21.6	16	17.3	35	29.5	39
10:00:00	21.3	15.8	16.7	39	27.6	43.6
11:00:00	20.7	15.3	16.5	33.7	25	9.4
12:00:00	21	15.3	16.5	28.2	36	39
13:00:00	20.2	14.9	15.5	28.1	27.1	40
14:00:00	20	14.8	15	22.6	26.8	42.1
15:00:00	19.5	15.1	14.9	28	33	44.9
16:00:00	19.8	16	15.6	45	31	29.7
17:00:00	20.2	15.9	16.1	45	39	32.8
18:00:00	21.6	17.4	16.6	58.6	37.8	28.7
19:00:00	23.9	18.6	18.8	34	39.9	33.9
20:00:00	24.1	18.4	19.6	26.1	38.7	20.1
21:00:00	23.1	17.9	19.5	28.2	30.5	39.9
22:00:00	22.7	17.6	18.7	22.4	32.4	34.7
23:00:00	22.7	17.6	18.3	46	29	28
24:00:00	21.7	17.5	17.2	26	23.7	38
Average	**21.8**	**16.9**	**17.1**	**33.9**	**33.1**	**33.1**
Max	**24.1**	**18.6**	**19.6**	**58.6**	**42.2**	**49**
Min	**19.5**	**14.8**	**14.9**	**22.4**	**23.7**	**9.4**

9.4	49	33.1

Hourly Average data of NOX PPM From 01-7-2019 To 31-7-2019

	STACK					
	1	2	3	4	5	6
01:00:00	29.3	30.1	31.4			
02:00:00	28.1	29	29.3			
03:00:00	26.8	27.8	28.4			
04:00:00	27.1	27.8	27.4			
05:00:00	27.3	28	27.8			
06:00:00	28.1	29.1	27.8			
07:00:00	29.9	30.5	31.2			
08:00:00	28.9	29.8	30.7			
09:00:00	28.8	29.1	30.1			
10:00:00	28.6	28.9	29.5			
11:00:00	27.6	27.6	27.3			
12:00:00	27.5	27.2	27.3			
13:00:00	25.7	25.7	26			
14:00:00	25.8	25.4	26			
15:00:00	27.7	26.5	26.9			
16:00:00	27.5	26.9	26.4			
17:00:00	28.3	27.8	27.2			
18:00:00	28	28.5	25.9			
19:00:00	29.9	29.9	26.8			
20:00:00	30.8	30.8	28.7			
21:00:00	30.6	31.2	30			
22:00:00	30.7	31.5	31.9			
23:00:00	30.2	31.3	31.5			
24:00:00	28	28.9	29.9			
Average	28.4	28.7	28.6	#DIV/0!	#DIV/0!	#DIV/0!
Max	30.8	31.5	31.9	0	0	0
Min	25.7	25.4	25.9	0.0	0.0	0.0

Hourly Average data of NOX PPM From 01-8-2019 To 31-8-2019

	STACK					
	1	2	3	4	5	6
01:00:00	27.8	25.8	25.8	31.2	30.7	42.9
02:00:00	27.8	26.4	29.2	33.7	45	23
03:00:00	27.6	26.4	29.5	28.2	58	30
04:00:00	27	25.7	27.7	48.7	44	32.4
05:00:00	27.4	26.1	27.5	46	45	33
06:00:00	28.4	27	27.2	28	35	42
07:00:00	29	27.5	28.9	45	37	43
08:00:00	28.8	27.1	29.7	45	37	49
09:00:00	27.9	26.5	29.2	35	29.5	41
10:00:00	27.5	26.4	28.9	34	27.6	44
11:00:00	26.4	25.3	28.4	33.7	25	42
12:00:00	26.6	25.5	27.2	28.2	23	39
13:00:00	26.2	24.9	27.1	48.7	27.1	40
14:00:00	25.7	24.6	26.6	46	26.8	42.5
15:00:00	26.8	25.6	26.2	28	33	46
16:00:00	27.3	25.7	27.5	45	31	29
17:00:00	26.6	25.4	27.2	45	29	33
18:00:00	26.5	25.4	27.3	35	22	28
19:00:00	27.8	26.2	27.4	34	32	34
20:00:00	29.4	27.6	28.6	33.7	31	26
21:00:00	29.5	27.6	30.9	28.2	28.8	45
22:00:00	29	27.2	31.2	48.7	23	41
23:00:00	28.7	27.1	30.8	46	22	40
24:00:00	28.4	26.8	30.5	28	25	38
Average	**27.7**	**26.2**	**28.4**	**37.6**	**32.0**	**37.7**
Max	**29.5**	**27.6**	**31.2**	**48.7**	**58**	**49**
Min	**25.7**	**24.6**	**25.8**	**28.0**	**22.0**	**23.0**

Hourly Average data of NOX PPM From 01-5-2019 To 31-5-2019

	STACK					
	1	2	3	4	5	6
01:00:00	33	29.6	32.5	34	23.6	23.4
02:00:00	31.8	28.2	30.7	32.8	21.6	22.5
03:00:00	32.9	29.6	32	33.6	23.2	22.8
04:00:00	31	28.7	31.3	33.6	21.5	24.4
05:00:00	31.2	29	32.3	33.5	25	21.9
06:00:00	30.1	28.2	30.6	32.8	23.3	22.4
07:00:00	30.9	29.2	32.5	32.8	31.6	21.1
08:00:00	32.1	29.5	31.7	33.5	20.4	23.7
09:00:00	31.9	29.1	32.1	32.6	22.3	23
10:00:00	32.1	29	31.6	33.2	26.2	23
11:00:00	32.1	29.2	30.9	32.4	25	24
12:00:00	33.2	29.6	31.9	33.1	25.7	22.9
13:00:00	32.3	28.7	31.6	33	27.3	23
14:00:00	32.1	28.1	31.4	32.9	24.3	22.9
15:00:00	32.6	28.6	32	33	20.9	21.6
16:00:00	33.4	29.1	32.9	33.8	18.7	23
17:00:00	33.5	29.3	32.6	35	18.1	22.6
18:00:00	33.3	30.5	33.1	35.1	17.9	22.4
19:00:00	32.8	30.7	33.3	35.4	20.7	22.5
20:00:00	32.8	30.9	33.5	34.9	21.3	21.9
21:00:00	33	31.3	34	35	25.2	22.7
22:00:00	33.6	31.9	34.8	35.2	24.3	21.7
23:00:00	33	30.6	34.6	34.9	22	22.4
24:00:00	33.4	30.4	34.1	34.8	22.9	22.7
Average	32.4	29.5	32.4	33.8	23.0	22.7
Max	**33.6**	**31.9**	**34.8**	**35.4**	**31.6**	**24.4**
Min	**30.1**	**28.1**	**30.6**	**32.4**	**17.9**	**21.1**

Hourly Average data of NOX PPM From 01-6-2019 To 30-6-2019

	STACK					
	1	2	3	4	5	6
01:00:00	30.9	23.3	30.2	29.7	29.9	25
02:00:00	30.7	22.8	30.1	29.7	33	24.8
03:00:00	30.1	22.2	28.6	29.5	29.9	25.4
04:00:00	30.3	22.8	28.4	32	32.7	23.3
05:00:00	30.4	22.7	27.4	28.7	29.5	23
06:00:00	30.9	23.2	28.4	29.2	30.2	26.6
07:00:00	30.2	22.9	27.9	28.9	32.8	28.6
08:00:00	28.6	21.7	26.3	27.4	33	27.5
09:00:00	28.3	21	26	30	31.9	27.4
10:00:00	28.4	21	26.4	29.3	33.4	25.3
11:00:00	29.1	21.5	26.8	29.8	34.6	26.8
12:00:00	28.4	21	26.8	30.9	36.6	26.5
13:00:00	28.8	21.2	27.5	29.5	32.4	26.6
14:00:00	28.1	19.9	28	28.7	34.7	23.9
15:00:00	29	21.4	28.3	28.9	29.5	32.7
16:00:00	27.9	21.5	27.6	29.2	35.1	22.7
17:00:00	26.9	21.4	26.6	35.1	37.8	20.4
18:00:00	26.9	21.6	26.5	28.7	31.6	24.3
19:00:00	27.5	22	28.3	27.5	30.4	21.8
20:00:00	28.5	22	28.1	30.4	30.3	24.1
21:00:00	29.2	22	28.5	29.2	32.9	23.2
22:00:00	29	21.6	29	29.3	27.3	23.2
23:00:00	29.3	22.3	28.7	31	32.9	23.2
24:00:00	29.9	22.8	28.9	31.9	32.7	24.5
Average	29.1	21.9	27.9	29.8	32.3	25.0
Max	**30.9**	**23.3**	**30.2**	**35.1**	**37.8**	**32.7**
Min	**26.9**	**19.9**	**26.0**	**27.4**	**27.3**	**20.4**