

EP/12.1/39/TN
Date: 29.10.2012

To,

The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment and Forests,
Regional Office (South Zone),
Bangalore.

Subject: Proposal of 210 MW unit (Zero unit) of Neyveli Lignite Corporation - Reg.,


Reference: MoEF Ir.No. J- 13011/31/87- IA Date:- 23.12.1988, 7.11.1990, 3.5.1994,
12.5.1994 and 4.8.1999.

Sir,

The above referred project was monitored on 18.10.2012 along with Shri R. Ramachandran, DGM, Shri. C.K. Chandrasekaran, Plant GM and other officers of the power plant. The 250 MW power plant has been commissioned on 15.12.2002. MoEF has initially cleared this project vide its letter dtd. 23.12.1988 to M/s NLC as zero unit of 210 MW capacity. The same was subsequently transferred to M/s ST-CMS vide MoEF letter dtd. 3.5.1994 and 12.5.1994. Wherein the MoEF refers to 250 MW. However no specific reference is available in this office on MoEF approving 210 to 250 MW. MoEF vide its communication dtd. 4.8.1999 extended the validity of the clearance wherein it has coated the earlier reference of MoEF letter dtd. 23.12.1988 and 3.5.1994, which do not have any provision of exemption of the FGD installation as per letter of MoEF 17.11.1990. It means the project authorities needs to provide/install FGD for zero unit. MoEF may kindly look into the matter for necessary amendments in the clearance letter from the legal point of view. Project authorities are also advised to move MoEF in this connection.

The company has made a good effort in conserving the water by way recycling and optimizing the working efficiency of the plant. In all there are 12 bore wells in the plant premises from which the required quantity of water is drawn for power plant operation. On an average around 600 m³/h of water is drawn and utilized. As informed by the project authorities 1090 m³/h of water drawl from these bore well is approved, but could not provide the approval letter. MoEF while transferring the clearance letter vide its letter dtd. 3.5.1994 has stipulated a condition to prepare an workable plan of ash utilization and submit to MoEF for approval. Project authorities did not provide any information to the compliance of this condition. Covered sheds are provided for storage of raw materials. Dry evacuation system has been provided at ESP for collection of the dry fly ash. All the fly ash thus collected is sold to the cement plant. Bottom ash is dumped into the ash pond which is lined and maintained well. On the compliance part of the other environmental conditions actions taken by the project authorities are found not satisfactory. Following non compliances were noticed during the monitoring visit.

1. Approval letter for ground water drawl and use for power plant is not provided.
2. Workable plan for fly ash utilization is not submitted.
3. Continuous AAQ monitoring stations are not submitted.
4. Six monthly compliance reports are not submitted regularly.
5. Information about the project cost and expenditure and environmental allocation and expenditure not submitted.


Dr. A.B. Harapanahalli

GOVERNMENT OF INDIA
Ministry of Environment and Forests
(Regional Office, Southern Zone)
Bangalore-34.
MONITORING REPORT
PART I
DATA SHEET

F.No.EP/12.1/39/TN

- | | | |
|---|---|---|
| 1 | Project Type :
River
valley/Mining/Industry/Thermal/
Nuclear/Other
Specify | Thermal |
| 2 | Name of the project | Proposal of 210 MW unit (Zero unit) of
Neyveli Lignite Corporation |
| 3 | Clearance letter(s)/OM No. and
dated | No. J- 13011/31/87- IA Date:-
23.12.1988, 7.11.1990, 3.5.1994,
12.5.1994 and 4.8.1999. |
| 4 | <u>Locations</u> : | |
| | a. District (s) | Cuddalore |
| | b. State (s) | Tamil Nadu |
| | c. Latitudes/ Longitudes | |
| 5 | <u>Address of correspondence:</u> | |
| | a. Address of concerned project
Chief Engineer (with Pin Code &
telephone/telex/fax numbers | The Company Secretary,
M/s ST-CMS Electric Co Pvt Ltd,
1x250 MW LFTP,
Uthangai, Vridhachalam Taluk,
Cuddalore District
Tamil Nadu-607 804.
Phone No. : 04142- 304100
Fax No. : 04142- 304200 |
| 6 | <u>Salient features</u> : | |
| | a. of the project | Covered in project report. |
| | b. of the environmental
management plans | Submitted to MoEF during project
appraisal. |
| 7 | <u>Break up of the project area</u> : | |
| | A Submergence area (forest &
non-forests) | Nil |
| | B Others | 212 acres. |

8	Break up of project affected population with enumeration of those losing houses/dwelling units only, agricultural land only, both dwelling units and agricultural land and landless labourers/artisans	
	A SC,ST/Adivasis	NA
	B Others	NA
9	<u>Financial Details:</u>	
	A Project cost as originally planned and subsequent revised estimates and the years of price reference	Information not submitted
	B Allocations made for environmental management plans, with item wise and year wise breakup	Information not submitted
	C Benefit cost ratio/internal rate of return and the years of assessment	-
	D Whether (c) includes the cost of environmental management as shown in (b) above	-
	E Total expenditure on the Project do far	Information not submitted
	F Actual expenditure incurred on the environmental management plans so far	Information not submitted
10	<u>Forest land requirement :</u>	Nil
	A The status of approval for a diversion of forest land for non-forestry use	NA
	b The status of compensatory afforestation, if any	
	C The status of clear felling	-
	D Comments on the viability and sustainability of compensatory afforestation programme in the light of actual field experience so far	

11	The status of clear felling in non-forest area (such as submergence area of reservoir, approach road), if any, with quantitative information	
12	<u>Status of construction :</u>	
	A Date of commencement	November, 1999.
	B Date of completion (actual and/or planned)	15.12.2002.
13	Reasons for the delay if the project is yet to start.	NA
14	<u>Date of site visit :</u>	
	A The dates on which the project was monitored by the Regional Office on previous occasions, if any	16.8.1991, 9.8.1992, 21.8.1993, 2.11.1995, 1.9.1997, 22.10.1999, 3.4.2003, 28.7.2004, 23.2.2009, 4 & 5.6.2009 and 4 & 5.3.2011.
	B Date of site visit for this monitoring report	18.10.2012.
15	Details of correspondence with project authorities for obtaining action plans, information and status of compliance to safeguards	-

Part – II

Subject: Proposal of 210 MW unit (Zero unit) of Neyveli Lignite Corporation - Reg.,

Reference: MoEF Ir.No. J- 13011/31/87- IA Date:- 23.12.1988, 7.11.1990, 3.5.1994, 12.5.1994 and 4.8.1999.

Conditions:-	Compliance
i. ESP's of not less 99.5% efficiency must be provided to TS -I and TS -II units	Refer part -III
ii. ESP's of not less 99.5% efficiency must be provided to this unit	Complied
iii. FGD with efficiency of not less than 95% must be provided.	Refer part -III
iv. Stack height of not less than 220 meters must be provided	Complied
v. Increase in the height of the stack/velocity of flue gases may be considered to ensure minimum GLC	Not applicable
vi. Liquid effluents must be treated to the prescribed norms	Complied
vii. Monitoring facilities for stack, AAQ and liquid effluents may be provided	Partially complied
viii. Infrastructure facilities may be created to meet the emergency situations.	Complied
ix. Green belt development	Complied
3 Financial provision for EMP	Complied

PART - III

Subject: Proposal of 210 MW unit (Zero unit) of Neyveli Lignite Corporation - Reg.,
Reference: MoEF Ir No. J- 13011/31/87- IA Date: 23.12.1988, 7.11.1990, 3.5.1994, 12.5.1994 and 4.8.1999.

Conditions:-

- i. ESP's of not less 99.5% efficiency must be provided to TS -I and TS -II units.

The environmental clearance to this zero unit of 210 MW was issued on 23.12.1988 to M/s Neyveli Lignite Corporation. Subsequently the clearance vide MOEF letter dtd. 3.5.1994 and 12.5.1994 has been transferred to M/s ST-CMS Power Projects Ltd, a private company. Hence this implementation of this particular condition is not applicable to M/s ST-CMS, as the TS -I and TS-II power plants are being implemented by M/s NLC. The compliance reports for TS -I and TS -II are filed separately.

- ii. ESP's of not less 99.5% efficiency must be provided to this unit.

ESP of 99.5% efficiency has been provided. Monitoring reports conform that the stack emissions are well within the limits stipulated.

- iii. FGD with efficiency of not less than 95% must be provided.

MoEF vide letter No. J-13011/31/87-IA dtd. 7.11.1990 has amended the condition exempting the installation of FGD and permitting only the space provision for installation of FGD in future if required. Accordingly a space provision has been made.

MoEF vide its communication dtd. 4.8.1999 extended the validity of the clearance wherein it has co-terminated the earlier reference of MoEF letter dtd. 23.12.1988 and 3.5.1994, which do not have any provision of exemption of the FGD installation as per letter of MoEF 17.11.1990. It means the project authorities need to provide/install FGD for zero unit. MoEF may kindly look into the matter for necessary amendments in the clearance letter from the legal point of view. Project authorities are also advised to move MoEF in this connection.

- iv. Stack height of not less than 220 meters must be provided.

A single stack of 220 meters height has been provided. Monitoring reports show that the stack emissions and AAQ parameters are within the limits.

- v. Increase in the height of the stack/velocity of flue gases may be considered to ensure minimum GLC.

This condition is not applicable to ST-CMS as the existing units are being implemented and operated by NLC.

- vi. Liquid effluents must be treated to the prescribed norms.

Treatment facilities have been provided. Monitoring reports show that treated effluent quality is within the limits.

vii. Monitoring facilities for stack, AAQ and liquid effluents may be provided

Online continuous stack monitors are provided and seen working properly. AAQ is monitored at 6 locations by manual method, monitoring reports shows parameters are within the limits.

viii. Infrastructure facilities may be created to meet the emergency situations.

Infrastructure facilities are provided. Tamil Nadu Government approved TRP manual is available.

ix. Green belt development

Green belt development has been developed in an area of about 25% of the total plant area. So far about 31,000 saplings of different varieties have been planted along the plant boundary, road sides and other vacant areas inside the plant.

3. Financial provision for EMP.

Financial provision as shown in point 9 of part-I has been provided.


Dr. A.G. Harapanahalli
Adviser

Adviser

EP/12.1/39/TN
Date: 29.10.2012

To,

The Managing Director,
M/s ST-CMS Electric Co Pvt Ltd,
No. 79, Kasturi Avenue,
MRC Nagar, RA Puram,
Chennai -600 028.

Tamil Nadu

Subject: Proposal of 210 MW unit (Zero unit) of Neyveli Lignite Corporation - Reg.,

Reference: MoEF Ir.No. J- 13011/31/87- IA Date: 23.12.1988, 7.11.1990, 3.5.1994,
12.5.1994 and 4.8.1999.

During the monitoring visit to the above mentioned project on 18.10.2012, the following non-compliances of the EC conditions were observed.

1. Approval letter for ground water drawl and use for power plant is not provided.
2. Workable plan for fly ash utilization is not submitted.
3. Continuous AAQ monitoring stations are not submitted.
4. Six monthly compliance reports are not submitted regularly
5. Information about the project cost and expenditure and environmental allocation and expenditure not submitted.

You are requested to take necessary corrective action to comply with above and send the action taken report within 1 month.


Dr. A.B. Harapanahalli
Adviser

Copy to: The Company Secretary, M/s ST-CMS Electric Co Pvt Ltd, 1x250 MW LFTP,
Uthangai, Vridhachalam Taluk, Cuddalore District, Tamil Nadu-607 804.

Dr. A.B. Harapanahalli
Adviser