

# **COMPLIANCE TO EC CONDITIONS**

## **[1x 67.5 MW (UNIT # I)]**

**STATUS AS ON 31<sup>st</sup> MARCH, 2012 ON COMPLIANCE OF CONDITIONS AND SAFE GUARDS LAID DOWN BY GOVT. OF INDIA, MINISTRY OF ENVIRONMENT OF FORESTS VIDE MEMORANDUM NO: J -13011/18/88 – IA OF 11 MAY 1989 FOR 1 X 67.5 MW CPP**

### **Condition No: 2. (i)**

***A single stack having minimum 130 meters height will be provided.***

Single stack of height 130 meters has been provided.

### **Condition No: 2. (ii)**

***Electrostatic precipitators [ESP's] having an operational efficiency of not less than 99.5% will be provided to keep the emission levels of the particulates within 150 mg/Nm<sup>3</sup>.***

The unit is under shut down. Revamping of the ESPs is in process. Existing ESPs will be replaced by new ones having efficiency more than 99% to keep the emission below 100 mg/NM<sup>3</sup>.

### **Condition No: 2. (iii)**

***Dust suppressing/control equipment should be provided in the coal handling areas.***

Dust suppressing and extracting systems are in place in coal handling areas.

The fugitive emission monitored in Coal Handling Plant area for the last six months (October 2011 to March 2012) was 184.77 microgram / M<sup>3</sup>. The values are enclosed.

### **Condition No: 2. (iv)**

***Liquid effluents emanating from the power station are treated to comply with the standards prescribed by the Central/State Pollution Control Board or under the environment protection act, 1986, which ever are more stringent.***

The liquid effluents quality meets the prescribed standard all the times. The values for the last six months (October-2011 to March- 2012) are enclosed. All the values are well within the limit.

**Condition No: 2. (v)**

***Cooling towers will be provided***

Cooling Tower has been provided.

**Condition No: 2. (vi)**

***Continuous monitoring of stacks and ambient air quality will be done at least at four different locations. The sites of these stations will be selected in consultation with State Pollution Control Board taking into consideration with the wind direction, human settlements and other local factors. Similarly monitoring facilities for liquid effluents may be provided.***

Continuous monitoring of ambient air and all the four stacks of the existing unit (367.5 MW) is being carried out regularly.

Monitoring of Ambient Air is being carried out at 7 different locations. The values for Ambient Air monitoring are enclosed.

**Condition No: 2. (vii)**

***Adequate infrastructural facilities may be created for meeting the emergency situation arising due to fire hazards especially in the coal, oil storage and handling areas.***

Necessary Fire fighting arrangements have been provided in Coal handling area, Coal yard and Oil storage and handling area.

**Condition No: 2. (viii)**

***Adequate scrubbing system having an efficiency of not less than 90% efficiency for control of fluoride before the captive power plant comes on stream.***

Already complied at Smelter Plant

**Condition No: 2. (ix)**

***Disposal of fly ash on land should be done after making proper bunds/dykes. There should be no discharge of liquid effluents from ash bund/dyke. The liquid effluents if any should be recycled / reused. Efforts should be made to reuse, utilize the fly ash for constructive purposes such as in making bricks, blocks, cement etc. to the extent possible.***

The disposal of Fly ash is being complied as per the conditions. There is no discharge of effluents from Ash disposal area.

The Fly ash utilization programme is in place and being complied as per the Fly Ash Notification, 1999 and as amended thereof.

**Ash utilisation:**

Efforts have been made to utilise ash for constructive purposes such as making bricks, Cement Manufacturing and Low lying area filling etc. About 3, 69,253 MT of ash (from all the units) was used in different applications during 2011-12 (April, 2011 to March, 2012). The detailed ash utilization is submitted.

**Condition No: 2. (x)**

***A greenbelt of adequate density and width must be created all around the proposed power station and ash pond***

During the year 2011-2012 about 25200 saplings plantation has been made covering ash Disposal area, ash road-side, and Plant periphery. The total expenditure for green coverage for the year 2011-12 was Rs. 5.72 Lakhs. The detailed plantation is enclosed.

**Condition No: 3**

***Adequate Financial provisions must be provided in project cost and annual budgets for implementation of the conditions as stipulated above.***

Provisions are being made to allocate the funds for controlling the Pollution Control Equipment and abating the Pollution every year.

The actual environmental expenditure for the year 2011-12 was Rs. 1257.41 Lacs for all the four units (367.5 MW). The detailed break-up expenditure incurred on Environment Protection is enclosed.

**Condition No: 4**

***The above conditions may be modified or the additional ones may be imposed, if required from environmental angle.***

Agreed

**Condition No: 5**

***Enforcement of the stipulated conditions will among others be under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) act, 1981 and the Environment (Protection) Act, 1986.***

Agreed