

DVC

COOLING TOWER CELL CAPACITY 3600M³/H

PERFORMANCE TEST

Name of the Equipment : CT Cell 1B, DVC, CTPS.
Date of Test : 07.03.07
Composite Order No. : CT/CE/T-37(CTP)/1B(Refurbishment)/180
Dtd.28.08.06.
Name of the Supplier : M/s. SAI INDUSTRIAL TECHNO-SERVICES,
HYDERABAD.
Date of erection/commissioning : 17.11.2006.

Unit – I status during the test:

Load = 116 MW
Both CW Pumps in running condition
All CT Fans in Service except CT Fan 1C
Cell valve of 1C was in closed condition.
Vacuum = 599.3 mm of Hg
= 59.93 mm of Hg
Condenser Water box temp. = 33/45° C, 33/46° C.
CW Press in Condenser Box = 1.25/0.46 Kg./Cm.²
1.30/0.57 Kg./Cm.²
CW Water Press near 1B Cell (at local gauge) = 0.75 Kg./Cm.²

Cell 1B:

Hot Water Temp. = 44° C (By SITS Thermometer) Analy of CT fan 1B-45A
44° C (By DVC Thermometer)

Cooling Water Temp. (Cell outlet)

<u>Front Side</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>Avg. Temp.</u>	<u>Avg. Temp. Drop</u>
DVC Thermometer	21.5° C	20° C	20° C		
SITS Thermometer	21.5° C	20° C	20° C	20° C	24° C
<u>Back Side:</u>					
DVC Thermometer	20° C	21° C	23° C		
SITS Thermometer	20° C	21° C	23° C	21.3° C	22.7° C

NOTE: Cold water temperature were also measured in different cells ^{and} anyone found as following:

1A = 36.5°C, 1D = 37°C, 1E = 31.5°C

Wet Bulb Temp.: 17 – 18°C

Final Remarks: Performance of CT Cell 1B after refurbishment was found to be satisfactory.

Committee Members Signature:

DVC, CTPS Officials:


(S. K. Chattarjee)
OS - II


(P. Sen Roy)
OS I

NTPC Representative:

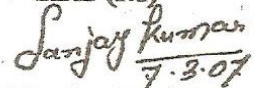

(Uttam Kumar)
DGM


SITS Official:


(B. Venkataiah)
CEO


(S. P. Singh)
MS-II


(A. K. Dutta)
SDE (M)


(Sanjay Kumar)
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AE, Operation