



WTP ,DM & CPU PLANT; HURL GORAKHPUR
PRE BID QUERIES- LOT-3
NIT NO.: PNMM/PC161/E/001



S. No	Clause	Page	Title	Description	Clarification	Client/PDIL reply
1.	Part II : Technical Section - 2.0, Raw Water, Condensate and Treated Water Quality	2 of 6	1.1 Raw Water	14. Sulphates (as SO ₄) : 150 mg/l 15. Sodium : 130 mg/l 9. Chloride : 10 mg/l & Other water parameters	Suphate value as mentioned in the Raw Water Quality Table seems to be on Higher side. Also the TDS mentioned is 258 ppm, which in not in consistent with the Ionic load - Na=130, SO ₄ =150 ppm - this is already more than 258 ppm TDS and the other ions such as Ca. Mg, Cl, etc... are yet to be added). We kindly request you to revisit and reconfirm the values.	Please see attached report “Bidder to achieve ionic balance by using standard prevailing practice while designing the Plant”



**NTPC Energy Technology Research Alliance (NETRA)
GREEN CHEMISTRY LABORATORY**

INTER-OFFICE MEMORANDUM

From:	AGM (NETRA)	To:	GM (INST.)- PDIL
Our ref.:	NETRA/GCL/WATER/ 1193 /2018	Your ref.:	EMAIL / IOM;
Date:	27-04-2018	Date:	16-04-2018

Kind Attention: Sh. S K TRIPATHI

SUBJECT: REPORT ON WATER ANALYSIS : PDIL

We had received 01 Nos. of water sample on 17-04-2018 from your station. The samples have been evaluated for desired parameters. The said report is enclosed herewith.

NOTE:

- Nil.
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(Dr. R. Das)

Copy to:

1. Office copy.

NOTE: Kindly return the duly filled feedback form to us.



NTPC Energy Technology Research Alliance (NETRA) GREEN CHEMISTRY LABORATORY

WATER ANALYSIS REPORT

(A) Brief Description:

Name of Client & Project	SH. S K TRIPATHI; GM(INST)-PDIL		
Number of samples	01 No.	Sample type :	WATER- Gorakhpur
Your reference No. & Date	EMAIL; Date- 16-04-2018		
Test requirement	General Water Analysis		
Date of receipt at NETRA	17-04-2018	Completed on	27-04-2018
NETRA Report No. & Date	NETRA/GCL/WATER/1193/2018, Dated- 27-04-2018		
Number of pages in report	02		

(B) Analysis result:

SOURCE: PDIL	Expressed as	GORAKHPUR SITE	
Parameter		1193/1	
Temperature	°C	28	
pH at 27 deg.C	*	7.8	
Turbidity	NTU	9	
Conductivity at 27 deg.C	µs/cm	430	
Dissolved Oxygen at 27 °C	ppm O ₂	6.5	
Total Dissolved Solids (TDS)	mg/litre	314	
Total Suspended Solids (TSS)	mg/litre	11	
P- alkalinity	ppm CaCO ₃	0	
M- alkalinity	ppm CaCO ₃	156	
Total hardness	ppm CaCO ₃	196	
Calcium hardness	ppm CaCO ₃	100	
Magnesium hardness	ppm CaCO ₃	96	
Sodium	ppm Na	16	
Potassium	ppm K	2	
Iron - Total	ppm Fe	0.05	
Chloride	ppm Cl	18	
Sulphate	ppm SO ₄	48	
Nitrate	Ppm NO ₃	0.5	
Reactive silica	ppm SiO ₂	7	
Colloidal Silica	ppm SiO ₂	5	
Zinc	ppm Zn	0.02	
Manganese	Ppm Mn	0.01	

TEST METHOD : IS-3025; Ion Chromatography & AAS


Dr. R. Das / AGM (NETRA)
GREEN CHEMISTRY LABORATORY

NOTE:

- Testing was done as per relevant methods mentioned. The results are related only to the item tested and as on received basis. The report shall not be reproduced except in full, without the written approval of NETRA (NTPC).
- Any anomalies / discrepancies in the test report should be brought to our notice within 05 days from the date of issue of test report as samples (if remain) will be disposed off there -after.