

Date n 31 2 24 130 546
CHEMICAL DEPARTMENT GHTP (PSPCL) LEHRA MOHABAT
H.O./T.O. OF SHIFT CHEMIST

(10)

DATE.....
 DAY.....
 SHIFT.....

1. POSITION OF UNITS

Unit No.	Drum	Feed	Load	SiO ₂	CBD	D.P.R.
No.	Pressure Kg/Cm ²	Flow m ³ /hr.	MW	ppm	Position	Kg/Cm ²
I.						
II.						
III.						
IV.						

2. DOSING

Ur. No.	Hydrazine+Ammonia	Conc./Stroke	T.S.P. Conc. Stroke
I			
II			
III			
IV			

3. CHEMICAL CONSUMPTION

	UNIT-I	UNIT-II	UNIT-III	UNIT-IV	Total	Balance
Hydrazine
Ammonia
T.S.P.

4. Silica (min/max) in ppm Unit-I Unit-II Unit-III Unit-IV

5. Requirement

6. Fault

7. Stock : Fan.....Telephone.....Table.....Chair.....Heater.....

Stock : Torch.....Heater.....Bucket.....

8. Remarks

.....

T.O.
(SHIFT CHEMIST)

SENIOR CHEMIST

H.O.
(SHIFT CHEMIST)

Item No-32 (HY/30625)

PUNJAB STATE POWER CORP. LTD., G.H.T.P. LEHRA

(11)

DAILY REPORT OF WATER CHEMISTRY

DATED _____ /202

201

Unit	BOILER DRUM				SATURATED STEAM				SUPER HEATED STEAM				FEED WATER				HOT WELL		
	pH		Cond mhos/cm	SiO ₂ ppm	PO ₄ ppm	pH		Cond mhos/cm	SiO ₂ ppm	pH		Cond mhos/cm	SiO ₂ ppm	NH ₃ ppm	NH ₄ ppb	pH	Condy micro mg/l	SiO ₂ ppm	NH ₃ ppm
Limited Values	9.10 To 9.80	<50	0.30 or depending upon Fe/mg	2 to 10.0	8.8 to 9.2	2.5-5.0	<0.02	8.8 to 9.2	2.5-5.0	<0.02	8.8 to 9.2	2.5-5.0	<0.02	<0.5	<20	8.8 to 9.2	2.5-5.0	<0.02	<0.5
I																			
II																			
III																			
IV																			

Note : BD & Feed Water Cycle System's samples taken/collected after every 2 hrs.

Shift Chemist

Senior Chemist



PUNJAB STATE POWER CORPORATION LTD.

CHEMICAL DEPARTMENT GHTP O&M LEHRA MOHABBAT

DIARY OF SENIOR CHEMIST

Date.....

Day.....

11 Shift.....

(12)

1. Position of Units

Unit No.	Drum Pressure Kg/Cm ²	Feed flow T/Hr.	Load M.W.	Silica ppm	CBD Position	DPR Kg/Cm ²
1.
2.
3.
4.

2. Position in DM Plant

DMP 1.....

DMP 2.....

3. Load on Exchangers

SAC 1	SAC 2	SBA 1	SBA 2	MB 1	MB 2	Regn. Done/Due
ST-I
ST-II

4. D.M. Water Production

DMP-I		DMP-II		Total
.....Hrs to.....Hrs
.....Hrs to.....Hrs
Total Production (MT)	

5. Turbidity

CF (ST. I)	SBC (ST. I)	CF (ST-II)	CT-I	CT-II	CT-III	CT-IV
.....
.....

6. DM Water Consumption

Hrs.	#1	#2	#3	#4	Regn Consm	Before Consm	DMC	CEB	Total
.....
.....
Total

7. DM Water Storage (M.T.)

Hrs.	Stage	T1	T2	CST-1	CST-2	Total
.....To.....1
.....To.....2
.....To.....1
.....To.....2

Chlorination Plant Position

RWPH

CWPH

I

II

(13) (Date: 34 Y4/30571)

PUNJAB STATE POWER CORPORATION LIMITED

Chemical Department (O&M), GHTP, Lehra Mohabbat

Shift Summary Date: _____/20__

901

Shift - N			#1	#2	#3	#4	Regn.	Before	DMC-CEB	Total (M)
1. DMW Prod. =.....M	DMW Cons. =									
	SDMI	SDM2	SDM3	SDM4	CST1	CST2	CST3-CST4	Total (M)		
2. DMW Storage										
3. Silica Position	Min.		Max		DPR (Kg/Cm)					
U1										
U2										
U3										
U4										
4. Turbidity	CH(STI)	SBC (ST I)	CF (ST II)	CT.I	CT.II	CT.III	CT.IV			
Min.										
Max.										
5. Chemicals	Consumption/Balance				Level					
HCL					SHL1=	SHL2=				
CLYE					SAK1=	SAK2=				
Alum.					SHL3=	SAK3=				
Remarks if any : Overleaf please							Sr. Chemist GHTP, Lehra Mohabbat			

Shift - N			#1	#2	#3	#4	Regn.	Before	DMC-CEB	Total (M)
1. DMW Prod. =.....M	DMW Cons. =									
	SDMI	SDM2	SDM3	SDM4	CST1	CST2	CST3-CST4	Total (M)		
2. DMW Storage										
3. Silica Position	Min.		Max		DPR (Kg/Cm)					
U1										
U2										
U3										
U4										
4. Turbidity	CH(STI)	SBC (ST I)	CF (ST II)	CT.I	CT.II	CT.III	CT.IV			
Min.										
Max.										
5. Chemicals	Consumption/Balance				Level					
HCL					SHL1=	SHL2=				
CLYE					SAK1=	SAK2=				
Alum.					SHL3=	SAK3=				
Remarks if any : Overleaf please							Sr. Chemist GHTP, Lehra Mohabbat			

Shift - N			#1	#2	#3	#4	Regn.	Before	DMC-CEB	Total (M)
1. DMW Prod. =.....M	DMW Cons. =									
	SDMI	SDM2	SDM3	SDM4	CST1	CST2	CST3-CST4	Total (M)		
2. DMW Storage										
3. Silica Position	Min.		Max		DPR (Kg/Cm)					
U1										
U2										
U3										
U4										
4. Turbidity	CH(STI)	SBC (ST I)	CF (ST II)	CT.I	CT.II	CT.III	CT.IV			
Min.										
Max.										
5. Chemicals	Consumption/Balance				Level					
HCL					SHL1=	SHL2=				
CLYE					SAK1=	SAK2=				
Alum.					SHL3=	SAK3=				
Remarks if any : Overleaf please							Sr. Chemist GHTP, Lehra Mohabba			

(14) Item no 35 (yy 130572)



Punjab State Power Corporation Limited

DAILY REPORT OF PERFORMANCE OF UNITS

GHTP, LEHRA MOHABBAT

509

DATE.....

1. D.M. PLANT POSITION	DMP-1 _____	DMP-2 _____							
2. D.M. WATER PRODUCTION During Previous Day (M ³)	DMP-1 _____ (M ³)	DMP-2 _____ (M ³)	TOTAL _____ (M ³)						
3. PROGRESSIVE PROD. for the month (M ³)	_____ (M ³)		_____ (M ³) Total		_____ (M ³)				
4. D.M. Water Cons. During Previous Day	Unit-1 _____	Unit-2 _____	Total ST-1 _____	Unit-3 _____	Unit-4 _____	Total ST-2 _____	Total ST-1&2 _____		
5. Prog. Water Cons During the Month	_____	_____	_____	_____	_____	_____	_____		
6. Total Feed Flow Day During Previous Day (M ³ /Hr)	_____	_____	_____	_____	_____	_____	_____		
7. Prog. Feed Flow During the Month (M ³ /Hr)	Unit-1 _____	Unit-2 _____	Total ST-1 _____	Unit-3 _____	Unit-4 _____	Total ST-2 _____	Total ST-1&2 _____		
8. Station Makeup % age During the Month	_____	_____	_____	_____	_____	_____	_____		
9. Prog. Makeup % age During the Month	_____	_____	_____	_____	_____	_____	_____		
10. DMW Storage (M ³)	T-1 _____	T-2 _____	T-3 _____	T-4 _____	CST-1 _____	CST-2 _____	CST-3 _____	CST-4 _____	TOTAL _____
11. DMW Storage Previous Day (M ³)	_____	_____	_____	_____	_____	_____	_____	_____	_____
12. CBD Operation During Previous Day	Unit	From	To	Total Hours	SIO ₂ (Max/Min)				
I.	_____	_____	_____	_____	_____				
II.	_____	_____	_____	_____	_____				
III.	_____	_____	_____	_____	_____				
IV.	_____	_____	_____	_____	_____				
13. Coal Position	Sr.	Rake No.	Colliery	No. of Boxes	Grade	Time of Placement	Sampling Done/Due		
1.	_____	_____	_____	_____	_____	_____	_____		
2.	_____	_____	_____	_____	_____	_____	_____		
3.	_____	_____	_____	_____	_____	_____	_____		
4.	_____	_____	_____	_____	_____	_____	_____		
5.	_____	_____	_____	_____	_____	_____	_____		
14. DMW Cons	Unit-I _____	Unit-II _____	Unit-III _____	Unit-IV _____	Regn. _____	Before Sync. _____	DMC _____	Total _____	

Pond level : _____
R. Hrs of ST-1 _____
RW Pumps ST-II _____

CC :
1. SCE, UCB, Stage-I, GHTP Lehra Mohabbat
2. SCE, UCB, Stage-II, GHTP, Lehra Mohabbat
3. Chief Chemist/Water.....do.....

Senior Chemist
Chemical Department
GHTP, Lehra Mohabbat

Annexure 'A'

(18)

Items no B6
CHEMICAL TEST REPORT

(4/13/2015)

1. Name of Chemical : Liquid Chlorine
2. P.O. No. & Date : _____
3. Name of Firm : _____
4. Date of Receipt of Material : _____
5. Truck No. : _____
6. Driver's Name : _____
7. Date of Testing : _____
8. Qty. as Per Challan : _____
9. Qty. Received Actual : _____
10. Delivery schedule has been sent on date _____ for _____

Material checked physically and no leakage was found with Liquid Ammonia

Material is as per P.O. hence accepted

Tested By
Shift Chemist / Lab Asstt.

Dy. Chief Chemist / Sr. Chemist

Endst No..... / CD-10..... Dated.....

Copy forwarded to the following for information & further necessary action please:-

1. C.E./Proc. Cell (O&M), GHTP Lehra Mohabbat.
2. Dy. C.E./O&M, GHTP Lehra Mohabbat.
3. Dy. CAO / O&M, GHTP Lehra Mohabbat.
4. AEE. Store (O&M), GHTP Lehra Mohabbat.
5. M/S Primo Chemicals Limited, Chandigarh.

Chief Chemist / WTP,
Chemical Department,
GHTP, Lehra Mohabbat.

CHEMICAL DEPARTMENT, G.H.T.P. LEHRA MOHABBAT

Jha Srila. 57 44130569

COAL-MILL FINAENESS ANALYSIS REPORT DATE TIME :- TO Hrs

MESH COAL MILL	Limit	UNIT-1						UNIT-2						UNIT-3						UNIT-4					
		A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
50	>98%																								
100	>90%																								
200	>70%																								
Mill Outlet Temp. (°C)																									
PAFT/hr																									
Mill Current (Amp)																									
Feeder RPM																									
C.A.D. %																									
Coal Feed Rate (MT/hr)																									
Unit Load (MW)																									
Date : -																									
UNIT		UNIT-1						UNIT-2						UNIT-3						UNIT-4					
% Of Un Burnt Carbon in Bottom Ash (limit-11%Max)		#1						#2						#3						#4					
Fly Ash/(Limit-3% Max)		ST-1 -						ST-1						ST-11 -						ST-11					

- CC
- 1 CE/O & M, GHTP LHM
 - 2 Dy. C.E./Th Op.....do.....
 - 3 Dy. C.E./MM-I.....do.....
 - 4 Dir FE & T.....do.....
 - 5 Sr. Xen/M& FMC/LA.....do.....
 - 6 SCE/UCB-I.....do.....
 - 7 SCE/UCB-II.....do.....
 - 8 Sr. Chemist.....do.....
 - 9 Office Copy.....do.....

MEMO NO.....EMC-44 DATED.....

Shift Chemist/LA Dy. Ch. Chemist

Chief Chemist,
Chemical Department,
GHTP, Lehra Mohabat

Annexure 15
 S.No. 2.
 Item No 38 (Y130536)
 Some packing on both feet
 [Signature]

COAL TESTING LABORATORY GHTP LEHRA MCHABBAT



PSPCL

PROXIMATE ANALYSIS OF COAL SAMPLES

Page No.

Rake No.

Date of Sample Received

Date of Testing

Colliery:

Date of Placement:

Parameters	Total Moisture		Air Dried Basis			Equilibrated Moisture %
	SM%	RM%	IM %	ASH %	VM %	
Dish No.						
W1 gram						
W2 gram						
W3 gram					N.A.	
W4 gram (Final Reading)						
Result						
Avg. Result						
TM%						
TM%						
Analyzed By:						
Company Representative						

	GCV Analysis kcal/kg	
	I	II
Sample ID		
Weight of Sample gram		
Preliminary GCV kcal/kg		
Calorific Value due to Thread / Wire		
Volume of Ba(OH) ₂ (ml)		
Volume of HCL (ml)		
Volume of Na ₂ CO ₃ (ml)		
Final GCV kcal/kg		
Avg. GCV kcal/kg		
Analyzed By:		
Company Representative		

Test Report		
Basis	ADB	Eq. B
IM (%)		
ASH (%)		
VM (%)		
GCV (kcal/kg)		
GCV Band		
Sulphur (%)		

Sign	
Technical Manager	

Aberration Used	
W1	Crucible Weight
W2	Crucible + Sample Weight
W3	Final Weight
W4	Final Constant Weight
SM	Surface Moisture
RM	Residual Moisture
TM	Total Moisture
IM	Inherent Moisture
VM	Volatile Matter
GCV	Gross Calorific Value
ADB	Air Dried Basis
Eq. B	Equilibrated Basis

Annexure - 'B'

Jan 29 39

3

(44130590)

PUNJAB STATE POWER CORPORATION LIMITED

GHTP LEHRA MOHABBAT

H.O. / T.O. OF COAL SAMPLING ROOM

1. R.C. Feeder sample collected of units: _____
2. B.A. / F.A Sample collected of units: _____

COAL SAMPLING RECORD

Sr. No.	Rake	No. of Wagons	Colliery	Grade	Time of Placement	D.O.L.	ALL/Div.

Position		LM	KDH	Pachwara	Others	RCF
Sampling	Done					
	Due					
Crushing	Done					
	Due					
Grinding	Done					
	Due					

Remarks : _____

JPA / LA

Sr. Chemist

Annexure 'B'

(5)

Hand on 90
(YY 1305/17)

PUNJAB STATE POWER CORPORATION LIMITED

CHEMICAL DEPARTMENT, GHTP, LEHRA MOHABAT

DATE _____ SHIFT _____

STATION COAL SAMPLING

Stage-I Belt run : _____

Time of sample collection: _____

Stage-II Belt run: _____

Time of sample collection: _____

Time of feeding #1 #2 #3 #4

From ____ To Hrs.

BOTTOM ASH/FLY ASH SAMPLING

UNIT	BOTTOM ASH				FLY ASH	
	#1	#2	#3	#4	Stage-1	Stage-2
TIME (Hrs)						

JPA/LA

SENIOR CHEMIST

PUNJAB STATE POWER CORPORATION LIMITED

CHEMICAL DEPARTMENT, GHTP, LEHRA MOHABAT

DATE _____ SHIFT _____

STATION COAL SAMPLING

Stage-I Belt run : _____

Time of sample collection: _____

Stage-II Belt run: _____

Time of sample collection: _____

Time of feeding #1 #2 #3 #4

From ____ To Hrs.

BOTTOM ASH/FLY ASH SAMPLING

UNIT	BOTTOM ASH				FLY ASH	
	#1	#2	#3	#4	Stage-1	Stage-2
TIME (Hrs)						

JPA/LA

SENIOR CHEMIST



glen s. 41 (VY 630501)

PUNJAB STATE POWER CORPORATION LTD.

FIRE & SAFETY CELL, GHTP, LEHRA MOHABBAT

LOGSHEET FIRE PUMPHOUSE STAGE-II

Date:.....

Time	Hyd. Pump-I			Hyd. Pump-II			Hyd. Pump-III			Hyd. Diesel engine			Jockey Pump-I			Jockey Pump-II			Air Comp-I			Air Comp-II			Remarks	
	Start	Stop	Press	Start	Stop	Press	Start	Stop	Press	Start	Stop	Press	Start	Stop	Press	Start	Stop	Press	Start	Stop	Press	Start	Stop	Press		
01.00																										
02.00																										
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22.00																										
23.00																										
24.00																										

Signature	Night Shift	Morning Shift	Evening Shift
FMLFM			
SFO			



LOG SHEET FIRE PUMP HOUSE STAGE-I

PUNJAB STATE POWER CORPORATION LTD.

FIRE & SAFETY CELL, GHTP, LEHRA MOHABBAT

24th Sr No 43

YH/30650

43

Time	Hyd. Pump-I			Hyd. Pump-II			Hyd. Diesel Engine			Spray Pump			Spray Diesel Engine			Jockey Pump-I			Jockey Pump-II			Air Comp-I			Remarks			
	Start	Stop	Press	Start	Stop	Press	Start	Stop	Press	D.	Start	Stop	Press	Start	Stop	Press	D.	Start	Stop	Press	Start	Stop	Press	Start		Stop	Press	
01.00																												
02.00																												
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Signature	Night Shift	Morning Shift	Evening Shift
FM/PM			
SFO			

