

22/5/19 Yr 6305/5

PUNJAB STATE POWER CORPORATION LTD., G.H.T.P., LEHRA MOHABBAT

SEAL OIL AND STATOR WATER RECORD REGISTER (LOCAL) STAGE-2 DAY DATE UNIT

Time	SEAL OIL PUMP IN SERVICE	SEAL OIL PUMP MOTOR CURRENT	VACUUM PUMP IN O.K.T	FILTER IN O.K.T	FILTER CONDITION	SEAL OIL PUMP DISCHARGE PR.	SOT VACCUM	SEAL OIL TEMP. COOLER OUTLET	SEAL OIL TEMP. COOLER INLET	C.W TO COOLER TEMP INLET	C.W TO COOLER OUTLET	SOT LEVEL	ROT LEVEL	DUPLEX FILTER IN O.K.T	ZDF CHOKING	SUPPLY PR.	DP (TE)	DP (EE)	GAS PR. IN CASING	H2 PR. IN MANIFOLD	H2 PURITY	CLEAN OIL TANK LEVEL	DIRTY OIL TANK LEVEL	REMARKS		
Number		13.5 AMP				kg/cm ²	0.41 kg/cm ²	45	57.5			20 mm	25 mm				1.5 kg/cm ²	1.5 kg/cm ²	4.0 kg/cm ²	5.5 kg/cm ²	97%		80°C			
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 ਮਹਾਂਸ਼ਿਵ ਬਰਹਮਚਾਰੀ ਸਿੰਘ
 ਮਿਸਟਰ ਏ-2 (ਸੀ) ਐਚ.ਟੀ.ਪੀ.
 ਕਮਿਸ਼ਨਰ ਯੂਐਸ (ਕਮਿਸ਼ਨਰ)

Signature	Night Shift	Morning Shift	Evening Shift
SSO/SSA			
ASCE			
SCE			

Syno 22 (P/V 630591)

PUNJAB STATE POWER CORPORATION LTD., G.H.T.P., LEHRA MOHABBAT
 6.6 KV SWITCH BOARD-OCA 6.6 KV UNIT SWDB-OCB STAGE-II

DAY..... DATE..... UNIT NO. III

30/12

TIME	REMARKS
1	1.5 MVA SPARE TRF. FDR
2	1800 KW. SPARE MOTOR FDR
3	1.5 MVA PT. PLANT SER MOTOR FDR (OUBT-01)
4	IN COME FROM ST-3 (OAT-1)
5	KV
6	17IE TO CHP SWBD. (BUS-A)
7	1800 KW CW PUMP -3C
8	TIE FROM STN. SWBD -OCC
9	KV
10	425 KW MILL 3E
11	425 KW MILL 3 F
12	BUS. PT.
13	275 KW (AC) AIR COMP A
14	TIE TO UNIT SWDB-OCA
15	
16	
17	
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24	
1	TIE TO UNIT SWDB-3CB
2	275 KW (AC) AIR COMP B
3	BUS. PT.
4	180 KW CW PUMP -3C
5	250 KW FAN PUMP-3A
6	TIE TO FROM STN SWDB-OCC
7	K.V.
8	TIE TO CHP CUM HP SWBD-OCC (BUS-A)
9	2 MVA STN. SER. TRF. (OUBT-01)
10	IN COME FROM ST-3 (OAT-01)
11	K.V.
12	250 KW SPARE MOTOR FDR
13	2 MVA SPARE TRF. FDR

Handwritten notes in Urdu script, including "APV JPA" and "SSO/SSA".

Signature: APV JPA Night Shift: Morning: Evening: SSO/SSA

PUNJAB STATE POWER CORPORATION LIMITED, GHTP LEHRA MOHABT

FIRING FLOOR RECORD LOG SHEET STAGE II

Shen Suresh 21 (Yr/130550)

DAY.....DATE.....UNIT.....

TIME	MAIN STEAM PRESSURE		H.P.S.		RAPH-A OIL PUMP		RAPH-B OIL PUMP		RAPH-A SUPPORT OIL PUMP		RAPH-B SUPPORT OIL PUMP		FLAME CONDITION	REMARKS
	Normal Parameters	15A.4 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM	15A.1 KOU CPM		
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Signature	Night Shift	Morning Shift	Evening Shift
TOCI/PA			
ASCE			
SCE			

Ss 110 (22)

(44/30588)



PUNJAB STATE POWER CORPORATION LTD. LOG SHEET & H.O./T.O. OF J.P.A. (P) CLARIFIER STAGE-I

06

Time Hrs.	Pump Position	RAW WATER PUMPS (IN TAKE)				PWR SLUDGE PUMP		CLEAR WATER TANK LEVEL	ALUM DOSING PUMPS				LEVEL OF		S.W.P.			
		1	2	3	4	1	2		ALUM		1	2	1	2	3			
									1	2								
	START																	
	STOP																	
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	START																	
	STOP																	

1. ALUM BAGS : CONSUMED..... BALANCE=.....

2. TURBIDITY : CLARIFIER-1..... CLARIFIER-2.....

Cooling tower 1/3..... Cooling Tower 2/4.....

3. CHLORINATION

POSITION	INTAKE	PWR	TEMP °C
Close/Running	.....	.....	.....
Cylinder No.	.....	.....	.....

4. LEVEL OF :- LAKE..... SLUDGE POND.....

5. Pumps Are in service
- a) Raw Water Pump
 - b) P.W.R. Pump
 - c) Alum Dosing Pump
 - d) Service Water Pump
 - e)

T.O.
(J.P.A.)

Sr. Chemist

H.O.
(J.P.A.)

23 Y630535



PUNJAB STATE POWER CORPORATION LTD.

24 LOG SHEET & H.O./T.O. OF J.P.A. (P) CLARIFIER STAGE-II

Time Hrs.	Pump Position	RAW WATER PUMPS (IN TAKE)				AD		CLEAR WATER TANK LEVEL	LEVEL OF		C.W. MAKE UP PUMP	SLUDGE PUMP		
		1	2	3	4	1	2		ALUM	TANK		1	2	3
	START													
	STOP													
	START													
	STOP													
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	STOP													

1. ALUM BAGS : CONSUMED..... BALANCE=.....
 2. TURBIDITY : CLARIFIER-1..... CLARIFIER-2.....
 Cooling tower 1/3..... Cooling Tower 2/4.....

3. CHLORINATION	POSITION	INTAKE	PWR	TEMP °C
	Close/Running	.....	.....	.....
	Cylinder No.	.....	.....	.....

4. LEVEL OF :- LAKE..... SLUDGE POND.....

5. Pumps Are in service
- a) Raw Water Pump
 - b) P.W.R. Pump
 - c) Alum Dosing Pump
 - d) Service Water Pump
 - e)

T.O. (J.P.A.) Sr. Chemist H.O. (J.P.A.)

H.O./T.O. of JPA (CDR)
 Chemical Department, GHTP, Lehra Mohabbat.

Date:
 Day:
 Shift:

Time	UNIT	Hydrazine + Ammonia Dosing				Phosphate Dosing			
		PUMP	STROKE	TANK IN SERVICE	TANK LEVEL	PUMP	STROKE	TANK IN SERVICE	TANK LEVEL
	I	PLP1				PLP1			
		PLP2				PLP2			
	II	PLP3				PLP3			
		PLP4				PLP4			
	III	PLP5				PLP5			
		PLP6				PLP6			
	IV	PLP7				PLP7			
		PLP8				PLP8			
	I	PLP1				PLP1			
		PLP2				PLP2			
	II	PLP3				PLP3			
		PLP4				PLP4			
	III	PLP5				PLP5			
		PLP6				PLP6			
	IV	PLP7				PLP7			
		PLP8				PLP8			
	I	PLP1				PLP1			
		PLP2				PLP2			
	II	PLP3				PLP3			
		PLP4				PLP4			
	III	PLP5				PLP5			
		PLP6				PLP6			
	IV	PLP7				PLP7			
		PLP8				PLP8			
	I	PLP1				PLP1			
		PLP2				PLP2			
	II	PLP3				PLP3			
		PLP4				PLP4			
	III	PLP5				PLP5			
		PLP6				PLP6			
	IV	PLP7				PLP7			
		PLP8				PLP8			

Chemicals

N2H4
NH3
PO4

Same quantity on back side.
 Consumption Balance

Remarks / Faults
Al

T.O. / JPA

Senior Chemist

Shift Chemist

H.O. / JPA

4) 20.10.25 (130587)



PUNJAB STATE POWER CORPORATION LTD.
CHEMICAL DEPARTMENT GHTP, LEHRA MOHABAT
H.O./T.O. OF LAB. ASSTT.

DM PLANT - I

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

- 1. D.M. PLANT POSITION.....IN SERVICE / ISOLATED
- 2. D.M. WATER PRODUCTION.....M³
- 3. D.M. WATER CONSUMPTION.....M³
- 4. D.M. WATER STORAGE

Time	T1	T2	CST1	CST2	TOTAL (M ³)
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5. REGENERATION-DONE / DUE

LOAD ON EXCHANGES	SAC-1	SAC-2	SBA-1	SBA-2	MB-1	MB-2
.....

7. CHEMICAL CONSUMPTION DURING SHIFTS BALANCE

- I) HYDROCHLORIC ACID.....
- II) CAUSTIC LYE FLAKES.....
- III) POLY ELECTROLYTE.....
- IV) ALUM.....
- V) LIME.....
- VI) SODIUM SULPHITE.....
- VII) B. POWDER.....
- VIII) SOD. HYPOCHLORIDE.....

RAW WATER CLARITY.....RW.....
 SLUDGE BLANKET CLARIFIER NO. 1.....CLARIFIER NO. 2.....

- 8. ALKALI DIL TANK POSITION FOR SBA.....
- 9. ACID DIL TANK POSITION FOR MB.....
- 10. ACID DIL TANK POSITION FOR MB SAC.....
- 11. ALKALI DIL TANK POSITION FOR MB.....
- 12. D.M. WATER TRANSFER PUMP POSITION.....

13. LEVEL OF STORAGE TANK..... T1..... T2..... TOTAL

ACID.....

C.LYE.....

14. FAULT/UNDER PERMIT/MTC.....

.....

.....

15. REQUIREMENT

16. ATTENDANCE

17. Running Hrs. of Dmp-l

18. STOCK

1) FAN.....2) TELEPHONE.....3) TABLE.....

4) CHAIR.....5) HEATER.....6) TORCH.....

7) STOOL.....8) PH METER.....9) Condy Meter.....

21. REMARKS.....

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(T.C.)
LAB ASSTT.

(H.O.)
LAB ASSTT.

SR. CHEMIST

DY. Ch. CHEMIST

ju 256 YY 130662

PUNJAB STATE POWER CORPORATION LTD. G.H.T.P. LEHRA MOHABBAT
 CHEMICAL DEPARTMENT H.O./T.O. LAB. ASSTT.
 DM PLANT-II

4P

08

Date.....
 Day.....
 Shift.....

1. D.M. PLANT POSITION.....IN SERVICE/ISOLATED
 2. D.M. PLANT PRODUCTION.....M³
 3. D.M. PLANT CONSUMPTION.....M³

Time (Hrs.)	#3	#4	DMC	REG	Before	D.M. Water		TOTAL CONSUMPTION (M ³)
						FROM ST-I	TO ST-II	
TOTAL								

4. D.M. WATER STORAGE

TIME (Hrs.)	SDM3	SDM4	CST3	CST4	TOTAL (M ³)
.....
.....

5. REGENERATION DONE/DUE

6. LOAD ON EXCHANGES

	SAC	SBA	MB
7. CHEMICAL	.....	.....	.....]
	CONSUMED DURING SHIFT		BALANCE

- I) HYDROCHLORIC ACID.....
 II) CAUSTIC LYE.....
 III) SODIUM HYPOCHLOORITE.....

8. LEVEL OF U.F. DOSING TANKS

- a) LEVEL OF SODIUM HYPOCHLORITE TANK
 b) THE LEVEL OF CASTIC LYE TANK
 c) LEVEL OF HYDROCHLORIC ACID TANK

9. LEVEL OF ACID/CAUSTIC LYE DIL. TANK

- a) ALKALI DIL. TANK FOR SBA:
 b) ACID DIL. TANK FOR SAC:
 c) ACID DIL TANK FOR MB:
 d) ALKALI DIL TANK FORMB

10. D.M. WATER TRANSFER PUMP POSITION.....

11. LEVEL OF STORAGE TANK:	TANK LEVEL	BALANCE
ACID		
C. LYE		

12. FAULT/UNDER PERMIT/MTC.....

6

Item No. 27 (YV/305M7)



PUNJAB STATE POWER CORPORATION LTD.
CHEMICAL DEPARTMENT GHTP LEHRA MOHABBAT
PRODUCTION/CONSUMPTION OF DM WATER (STAGE I/II)

DAY 30 DATE _____

Time	DMW Prod. m3	DMW STORAGE M ³					DMW TRANSFER TO M ³			DMW CONSUMPTION M ³						
		CST-I	CST-II	CST-I	CST-I	SDM-I	SDM-II	TOTAL	CST-I	CST-II	TOTAL	UNIT-I	UNIT-II	REGN. BEFORE SYNCH	TOTAL	
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Total																

Sign. of LA _____ N _____ M _____ E _____ Sign. of Sr. Chemist _____ N _____ M _____ E _____

Chief Chemist/Water
G.H.T.P., LEHRA MOHABBAT

Annexure No. 1
(8)

PUNJAB STATE POWER CORPORATION LIMITED

House No. 28 14630531

CHEMICAL DEPARTMENT GHTP, LEHRA MOHABBAT
LOG SHEET WATER ANALYSIS OF D.M. PLANT-II

171

TIME IN HRS.	PRESSURE SAND FILTER		STRONG ACID CATION (SAC)					S.D.C. LEVEL, %	CO ₂ IN PPM		STRONG BASE ANION (S.B.A.)					MIXED BED (M.B.)					E/F		D.M. Water Production (M³)	T.M.S. (M³)		M.M. (M³)	M.M. (M³)																							
	pH	Cond.	pH	Cond.	-m value	Hardness	Load		Index	Outlet	pH	Cond.	-m value	S.D.	Load	pH	Cond.	S.D.	Load	pH	Cond.	STP		STP																										
Total																																																		

REMARKS

ANALYSIS OF D.M. WATER				
TIME	TANK	pH	Cond.	S.D.

SELF CYCLE FOR CER: _____

ELAPSED CYCLE OF CER: _____

Hrs to _____ Hrs. Pressure Filter Back Wash Done _____

Hrs To _____ Hrs. Activated Carbon Filter Back Wash Done _____

L.AB. ASST./I/O.

SENIOR CHEMIST

DY. CHIEF CHEMIST

Total D.M. Water Storage : _____ M³

Total D.M. Water Production : _____ M³

Total D.M. Water Consumption : _____ M³

D.M. Water Consumption for Regn. : _____ M³

Actual D.M. Water Consumption : _____ M³

8675

9

Item Sr 3D (Hy 130546)

PUNJAB STATE POWER CORPORATION LTD.
G.H.T.P. LEHRA-MOHABBAT CHEMICAL DEPARTMENT/O&M

LOG SHEET FOR WATER ANALYSIS OF BOILER SYSTEM DAY..... DATE..... UNIT NO.....

TIME	D.P. Kg/ Cm ²	Feed Flow THr.	Load MW	CBD Position	Po4 Dosing (Kgs.)		pH	BOILER DRUM						SATURATED STEAM						Condy after cation M Mhos	Sign. of Shift Chemist	REMARKS CBD Oper./DPR																			
					From	To		Condy M. Mhos	P ppm	M ppm	Sio2 ppm	H ppm	Po4 ppm	pH	Condy M. Mhos	P ppm	M ppm	Sio2 ppm	H ppm																						
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Senior Chemist

Chief Chemist



PUNJAB STATE POWER CORPORATION LTD.

G.H.T.P. LEHRA MOHABAT Chemical Department/O&M (Stage I & II)

LOG SHEET FOR WATER ANALYSIS OF BOILER SYSTEM DAY..... DATE..... UNIT NO.....

TIME	DM WATER				HOTWELL				FEEDWATER				MAIN STEAM				DOSSING N ₂ H ₄ •NH ₃ with coal	Sign. of Shift	REMA RKS
	pH	Condy M.Mhos	H ppm	SiO ₂ ppm	pH	Condy M.Mhos	P ppm	M ppm	H NH ₃	SiO ₂ ppm	pH	Condy M.Mhos	P ppm	M ppm	H NH ₃	SiO ₂ ppm			
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Senior chemist

Chief Chemist