



**OFFICE OF THE EXECUTIVE ENGINEER
JAL NIGAM YANTRIK KHAND
U.P. JAL NIGAM MEERUT**

**COMPLETION PLAN OF TUBEWELL
(YEAR - 2013-2014)**

NAME OF SCHEME- SHEKHPURA KADIM ZONE - 2 (TAPRI)
TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 1 NO.
LOCATION OF TUBE WELL - TAPRI (KABRISTAN).
NAME OF CONTRACTOR - M/S ASL ENTERPRISES MEERUT.

SPRING WATER LEVEL IN. MTRS - 10.50 M
SIZE OF BORE - 675 X 550 MM.
DATE OF COMPLETION OF T.W. - 13.01.2014

DEPTH B GL METER	LITHOLOGICAL LOGS	EXECUTED ASSEMBLY	ABSTRACT	
00	CLAY		1. DRILLING STARTED ON	15.11.2013
15.24	SAND		2. DRILLING COMPLETED ON	10.12.2013
24.40	CLAY		3. LOWERING ON	12.12.2013
27.43	SAND & BOLDER		4. DRILLING DEPTH	128.40 M
45.73	CLAY		5. 300 MM DIA HOUSING PIPE	43.24 M
59.45	FINE TO MEDIUM SAND		6. 300 MM DIA SLOTTED PIPE	8.00 M
64.50	CLAY		7. 300X200 MM DIA REDUCER	0.15 M
66.50	MEDIUM SAND		8. 200 MM DIA BLIND PIPE	57.65 M
73.40	CLAY		9. 200 MM DIA SLOTTED PIPE	28.23 M
81.40	FINE TO MEDIUM SAND		10. DISCHARGE BY COMPRESSOR	1538 L.P.M
85.66	CLAY		11. DISCHARGE BY O.P UNIT	2000 L.P.M
92.98	MEDIUM SAND		12. PUMPING PLANT - MAKE - K.S.B DISCHARGE - 2000 LPM HEAD - 45 M H.P. - 30 COLUMN PIPES - 150 MM DIA X 27 M	
99.08	CLAY			
104.26	FINE SAND			
106.70	CLAY			
114.32	MEDIUM SAND			
129.57	CLAY			
135.67	FINE SAND			
138.48	CLAY			

YIELD TEST OF TW BY COMPRESSOR

DATE OF TEST - 30.12.2013 STATIC W/L - 10.20 M TASTE OF WATER . SWEET

DISCHARGE BY V-NOTCH		SAND CONTENTS IN PPM						REMARKS
Height Of Water in cm.	Discharge in Lpm	Starting	After 5 min	After 10 min	After 15 min	After 30 min	After 60min	
20.3	1536	1300	1100	850	500	400	215	

YIELD TEST OF TW BY O.P UNIT

(As Per IS - 2800)

DATE OF TEST - 13.01.2014 STATIC WL - 09.20 M TASTE OF WATER - SWEET

ORIFICE TUBE HEIGHT IN INCH.	DISCHARGE IN L.P.M	SWL IN Mts.	RWL IN Mts.	DEPRESSION IN L.P.M	STARTING	SAND CONTENTS IN PPM						RECOMMENDATIONS
						After 5 min	After 10 min	After 15 min	After 20 min	After 25 min	After 30 min	
12.00	1610	09.20	11.10	01.90	50	20	CL	CL	CL	CL	CL	Recommended discharge 2000LPM at 2.30ME. depression. Pump should be run in bypass for 8 minutes before supply of water in ring main.
20.00	2083	09.20	11.50	02.30	75	15	TR.	CL	CL	CL	CL	
30.00	2538	09.20	12.10	02.90	180	70	20	TR.	TR.	CL	CL	
45.00	3106	09.20	12.90	03.70	320	150	40	10.	TR.	TR.	CL	
60.00	3598	09.20	13.80	04.60	440	200	100	20	TR.	TR.	CL	

CHEMICAL TEST REPORT

(As Per IS - 10500)

DATE OF TEST - 07.02.2014

AGENCY - EE Ist DIV U.P. Jal Nigam Mt.

S. NO	SUBSTANCE OR CHARACTERISTIC	LIMIT			S. NO	SUBSTANCE OR CHARACTERISTIC	LIMIT		
		DESIRABLE	MAX.	ACTUAL			DESIRABLE	MAX.	ACTUAL
1	Colour,Hazen,Unit	5	25	—	9	Dissolved solids mg/L	500	2000	256
2	Turbidity,NTU	5	10	—	10.	Calcium as(Ca) mg/L	75	200	—
3	PH value	6.5 to 8.5	No Relaxation	07.94	11.	Magnesium* as (Mn), mg/L	30	100	—
4	Total Hardness as (CaCO ₃) mg/L	300	600	110	12.	Copper as (Cu) mg/L	0.05	1.5	—
5	Iron as (Fe),mg/L	0.3	1.00	0.2	13.	Sulphate as (SO ₄) mg/L	200	400	30.72
6	Chlondes as (Cl),mg/L	250	1000	15	14.	Nitrate as(NO ₃) mg/L	45	100	7.08
7	Residual Free Chlorine,mg/L	0.2	—	—	15.	Alkalinity,mg/L	200	600	200
8	Fluoride as (F),mg/L	1.0	1.5	0.149					

Note - . All dimensions are in metres.

J E

A E

E E