



**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 -1, TW NO-2
TOTAL NO OF TUBE WELL PROVIDED IN THE SCHEME - 2 NO.
LOCATION OF TUBE WELL- NEAR POND (DGAH).
NAME OF CONTRACTOR-M/S ASL ENTERPRISES MEERUT

SPRING WATER LEVEL IN. MTRS - 10.20 M
SIZE OF BORE - 675 X 550 MM.
DATE OF COMPLETION OF TW- 16.12.2013

DEPTH B GL METER	LITHOLOGICAL LOGS	EXECUTED ASSEMBLY	ABSTRACT
00	SURFACE CLAY		1 DRILLING STARTED ON 06.11.2013
06.15	COARSE SAND		2 DRILLING COMPLETED ON 23.11.2013
18.29	CLAY		3 LOWERING ON 27.11.2013
21.34	COARSE SAND		4 DRILLING DEPTH 131.10M
27.43	CLAY		5 300 MM DIA HOUSING PIPE 45.36 M
36.56	CLAY		6 300X200 MM DIA REDUCER 0.15 M
45.72	CLAY		7 200 MM DIA BLIND PIPE 44.68 M
46.79	FINE TO MEDIUM SAND		8 200 MM DIA SLOTTED PIPE 38.35 M
56.30	CLAY		9 DISCHARGE BY COMPRESSOR 1536 L P M
58.43	COARSE SAND		10 DISCHARGE BY O.P UNIT 2000 L P M
64.52	CLAY		11 PUMPING PLANT - MAKE - K.S.B DISCHARGE - 2000 LPM HEAD - 45 M H.P. - 35 COLUMN PIPES - 150 MM DIA X 33 M
67.56	COARSE SAND		
72.80	CLAY		
72.84	CLAY		
84.71	V.FINE SAND		
87.56	COARSE SAND		
109.75	CLAY		
118.00	COARSE SAND		
121.95	CLAY		
131.10	CLAY		

YIELD TEST OF TW BY COMPRESSOR

DATE OF TEST - 07.12.2013 STATIC W/L - 10.00 M TASTE OF WATER . SWEET

Height Of Water in cm.	Discharge in Lpm	SAND CONTENTS IN PPM					REMARKS
		starting	After 5 min	After 10 min	After 15 min	After 30 min	
20.3	1536	1300	1000	700	400	150	TR.

YIELD TEST OF TW BY O.P UNIT

(As Per IS - 2800)

DATE OF TEST - 16.12.2013 STATIC W/L - 09.75 M TASTE OF WATER - SWEET

ORIFIE TUBE HEIGHT IN INCH.	DISCHARGE IN L.P.M	SWL IN Mtrs.	RWL IN Mtrs.	DEPRESSION IN L.P.M	STARTING	SAND CONTENTS IN P.P.M					RECOMMENDATIONS	
						After 5 MIN	After 10 MIN	After 15 MIN	After 20 MIN	After 25 MIN		After 30 MIN
10.00	1956	09.75	13.10	3.36	50	20	CL	CL	CL	CL	CL	Recommended discharge 3000LPM at 3.55M depression. Pump should be run in bypass for 5 minutes before supply of water in rising main.
12.00	2044	09.75	13.30	3.55	80	20	TR.	CL	CL	CL	CL	
18.00	2468	09.75	13.75	4.00	190	80	20	TR.	TR	CL	CL	
25.00	2952	09.75	14.35	4.60	380	245	80	20	TR	TR	CL	
35.00	3462	09.75	15.85	6.10	475	280	140	40	TR	TR	CL	

CHEMICAL TEST REPORT

(As Per IS - 10500)

DATE OF TEST - 21.12.2013

AGENCY-EE PRATHAM KHAND,UPJN,MRT.

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	319
2	Turbidity,NTU	5	10	---	10	Calcium as(Ca) mg/L	75	200	---
3	pH value	6.5 to 8.5	No Relaxation	07.65	11	Magnesium* as (Mn), mg/L	30	100	---
4	Total Hardness as (CaCO ₃) mg/L	300	600	170	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	15.38
6	Chlorides as (Cl),mg/L	250	1000	22	14	Nitrate as(NO ₃) mg/L	45	100	9.3
7	Residual Free Chlorine,mg/L	0.2	---	---	15	Alkalinity,mg/L	200	600	220
8	Fluoride as (F),mg/L	1.0	1.5	0.127					

Note - All dimensions are in metres

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