

OFFICE OF THE EXECUTIVE ENGINEER JAL NIGAM YANTRIK KHAND U.P. JAL NIGAM MEERUT COMPLETION PLAN OF TUBEWELL

(YEAR - 2013-2014)

NAME OF SCHEME - RANIKHANDI W/S SCHEME ~~MEERUT~~ (SRE) SPRING WATER LEVEL IN. MTRS - 5.10 M
TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 1 NO. SIZE OF BORE - 675 X 550 MM.
LOCATION OF TUBE WELL - NEAR SHAMSHAN BHUMI. DATE OF COMPLETION OF TW - 25.08.2014
NAME OF CONTRACTOR - M/S A.S.L ENTERPRISES MEERUT.

DEPTH B.G.L. METER	LITHOLOGICAL LOGS	EXECUTED ASSEMBLY	ABSTRACT
00	SURFACE CLAY		1 DRILLING STARTED ON 21.07.2014
8.15	FINE SAND		2 DRILLING COMPLETED ON 29.07.2014
30.50	CLAY		3 LOWERING ON 30.07.2014
39.85	FINE SAND		4 DRILLING DEPTH 132.50 M
42.82	VERY FINE SAND		5 300 MM DIA HOUSING PIPE 43.28 M
60.98	FINE SAND		6 300X200 MM DIA REDUCER 0.15 M
79.27	CLAY		7 200 MM DIA BLIND PIPE 43.51 M
85.37	FINE TO MEDIUM SAND		8 200 MM DIA SLOTTED PIPE 42.52 M
121.95	CLAY		9 DISCHARGE BY COMPRESSOR 1800 L.P.M
132.56			10 DISCHARGE BY O.P UNIT 2000 L.P.M
			11 PUMPING PLANT :- MAKE - K.S.B DISCHARGE - 2000 LPM HEAD - 80 M H.P. - 15 COLUMN PIPES - 150 MM DIA X 30 M

YIELD TEST OF T/W BY COMPRESSOR

DATE OF TEST - 09.08.2014 STATIC W/L - 4.50 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	
08"	1536	1300	1000	550	250	50	Tr.	

YIELD TEST OF T/W BY O.P UNIT

(As Per IS - 2800)

DATE OF TEST - 25.05.2014 STATIC W/L - 4.26M 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 P.P.M						RECOMMENDATIONS.
						After 5 MIN	After 10 MIN	After 15 MIN	After 20 MIN	After 25 MIN	After 30 MIN	
12.00	2044	04.26	05.70	2.44	20	CL	CL	CL	CL	CL	CL	Recommended discharge 2000L PM at 2.44MT. depression. Pump should be run in bypass for 5 minutes before supply of water in rising main.
18.00	2498	04.26	07.30	3.04	40	Tr	CL	CL	CL	CL	CL	
25.00	2952	04.26	07.92	3.66	120	70	CL	20	Tr	CL	CL	
30.00	3217	04.26	08.22	3.96	200	100	Tr	30	Tr	CL	CL	

CHEMICAL TEST REPORT

(As Per IS - 10500)

DATE OF TEST - 30.08.2013 AGENCY - EE 1st DIV U.P Jal Nigam 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	---
2	Turbidity,NTU	5	10	---	10	Calcium as(Ca) mg/L	75	200	---
3	PH value	6.5 to 8.5	Relaxation	07.66	11	Magnesium* as (Mn) mg/L	30	100	---
4	Total Hardness as (CaCO ₃) mg/L	300	600	130	12	Copper as (Cu) mg/L	0.05	1.5	---
5	Iron as (Fe),mg/L	0.3	1.00	0.10	13	Sulphate as (SO ₄) mg/L	200	400	03.84
6	Chlorides as (Cl),mg/L	250	1000	15	14	Nitrate as(NO ₃) mg/L	45	100	04.43
7	Residual Free Chlorine,mg/L	0.2	---	---	15	Alkalinity,mg/L	200	600	150
8	Fluoride as (F),mg/L	1.0	1.5	0.140					

Note - All dimensions are in metres.

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