

81 - 84

84 - 87

87 - 90

90 - 93

93 - 96

96 - 99

099 - 102

CONCRETE CLAY

SANDY CLAY

SANDY CLAY

SANDY CLAY

SANDY CLAY

CLAY

14-09-2021

14-09-2021

15-09-2021

15-09-2021

15-09-2021

15-09-2021

31

32

33

34

35	15-09-2021	CLAY	102 - 105	
36	15-09-2021	CLAY	105 - 108	
37	15-09-2021	CONCRETE CLAY	108 - 111	
38	15-09-2021	CONCRETE CLAY	111 - 114	
39	15-09-2021	CONCRETE CLAY	114 - 117	
40	15-09-2021	MEDIUM SAND	117 - 120	**************************************
41	15-09-2021	MEDIUM SAND	120 - 123	
42	16-09-2021	MEDIUM SAND	123 - 126	
43	16-09-2021	MEDIUM SAND	126 - 129	
44	16-09-2021	MEDIUM SAND	129 - 132	
45	16-09-2021	MEDIUM SAND	132 - 135	
46	16-09-2021	MEDIUM SAND	135 - 138	
47	16-09-2021	MEDIUM SAND	138 - 141	
48	16-09-2021	SANDY CLAY	141 - 144	
49	16-09-2021	CLAY	144 - 147	
50	16-09-2021	CLAY	147 - 150	
51	16-09-2021	CLAY	150 - 153	
52	16-09-2021	CLAY	153 - 156	
53	16-09-2021	CLAY	156 - 159	
54	16-09-2021	CLAY	159 - 162	
55	16-09-2021	CLAY	162 - 165	
56	16-09-2021	CLAY	165 - 170	

CORAKIPS

Market Constitution of the Constitution of the

CLIENT



Aqua Xplore

(Groundwater Assessment & Allied Services)

243/5, New Colony Jiyamau, Hazratganj, Lucknow - 226001 Mob. 9918202546 / 9889323322, Email-aquaxplorelko@gmail.com

Advisor- Dr. R. A. Yadav, ex-Manager (Groundwater), U. P. Jal Nigam

Ref 902 - P/ AX - 2021

Date 02.09.2021

Geophysical Borehole Logging Report

Name of the site: Pokharigaon, Block-Gola

District

: Gorakhpur

Date

: 02.09.2021

Depth logged

02.05.2021

Depth drilled

: 160.0 mbgl

: 170.0 mbgl

Logged by

: Aqua Xplore

Presence

: Representative of M/S NCC Limited, Gorakhpur - South

Based on the interpretation of geophysical logs, following information may be deciphered, particularly with respect to salinity of the formation water;

SI.No.	Depth range(mbgl)	Thickness(m)	Remarks
1	32.042.0	10.0	
2	50.078.0	28.0	Good all
3	125.0140.0	15.0	***************************************

Note. No suitable zones were encountered below 140.0 mbgl till depth logged.

Mong.

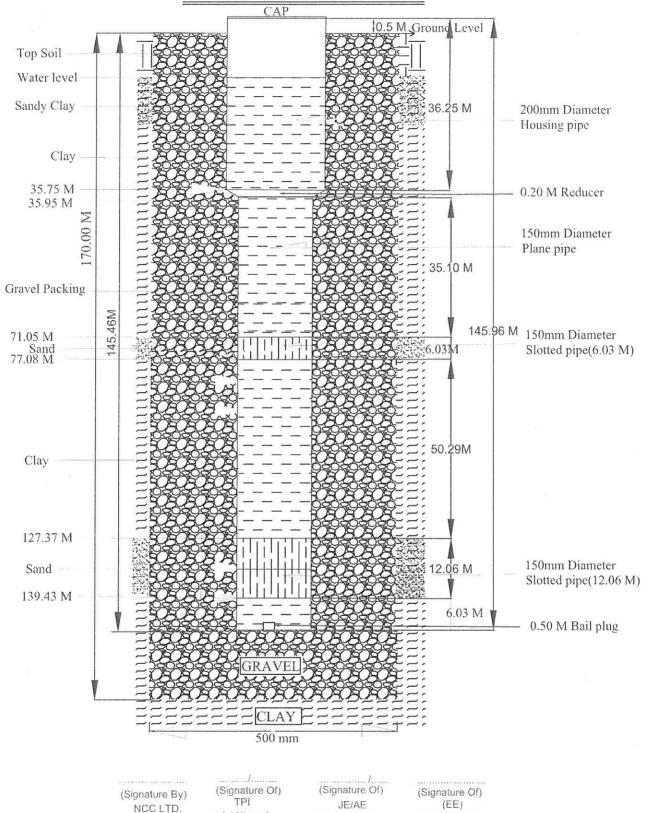
for Aqua Xplore

CC:

- 1. Executive Engineer, C.D. (E/M), U.P.Jal Nigam, Gorakhpur.
- 2. M/S NCC Limited, Gorakhpur -South, SWSM.

			VSM/DWSM - GORAKHPUR (UP)	
NAME OF THE D	DISTRICT. CURAKNOU	IR	CONSTRUCTOR (UT)	TYPE OF RIG M/C-
NAME OF THE E	BLOCK- COLA			SIZE OF BORE- 600 mm \$
NAME OF THE C	GRAM PANCHAYAT- POKMAR	IGAON		STATIC WATER LEVEL- 2m
NAME OF THE V	TLLAGE-			J.E Incharge A.E Incharge
DEPTH B.G.L	BORING CHART	CTD4T4	EVECTED (CCEVE)	ASSEMBLY DETAILS
IN METER	MORNING CHARL	STRATA	EXECUTED ASSEMBLY	200 mm Dia Housing Pipe A.G.L= 0 450 m
OM	111111111	•	_	7/7/
		CLAY		
6.00				200 ISO mm Dia Reducer 35. 75 m to 35.95 m
		F. SAND		150 mm Dia BLIN Opipe 35.95 m to 71.05
120	" acces " " " " " " " " " " " " " " " " " " "			150 mm Dis SLOTE Dipe 71.05 m to 77.06
,	1.1.1.1.			150 mm Dia BLINDipe 77.78 m to 18733
	10 10 10	SANDY CLAY		150 mm Dia Sto 76 Bipe 12737 m to 139.43
24-0	1.1.1.1.1.			150 mm Dia BLINDpipe 39.83 m to 4546
21-0	10/6/1/0/0/0			mm Dia pipe m to
	10/0/0/0/0/	CONCRETE CLAX		mm Dia pipe m to
21		CONCRETECLAS		5.45
31.0	1 1 1 1 1 1 1	0-1-	35.0	13
	<u> </u>	FINE SAND		mm Diapipem to
44.0	K The state of the			mm Diapipem to
1	1.01.1.			mm Diapipem to
	1:1-1.1:1	SANDY CLAY		mm Diapipem to
	1-1-1:			mm Diapipem to
58.0	1/11/1			mm Diapipem to
	. " . a . " . " on " a	11		mm Diapipem to
-	· ja a	MEDJUM SAND	711177710	mm Diapipem to
	; - ; o ; o ; o ; o	1 1 COD ON 1 SPI VO		mm Diam to
78.0	C. C. C. C.		11111 77.	
700	10/0/0/0/0/0	1 10 110 8 15 700 100	7	mm Diapipem to
22	1 10 0 0 0	(ONCRETECIAN		mm Dia pipe m to
88.0	1			
	1-1-1-1-1			mm Diapipem to
. 0 -	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	SANDY CLAX		mm Diapipe m to
98-0	17777	7		Total Assembly= 173100 m + A.G.L (m) = 174074 M
		CLAX		ABSTRACT
108.0				1.Drilling Started- 20 108/2021 2.Drilling Completed/Lowering- 145.9
-	10/0/0/0	CONCRETECLAY		3.Drilling Depth (m)-
118-0	11,1,4 1,1	-	a	3.Drilling Depth (m)- 4.Assembly Lowered (m)- 5.Housing Pipe (m)- 6.Plain Pipe(m)- 7.Slotted Pipe(m)- 8.Reducer(m)-
	11 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			5.Housing Pipe (m)- 36 . 25
	1011	1	11111111111111111	37 6.Plain Pipe(m)- 9 -62
		MEDIUMSAND		7.Slotted Pipe(m)-
			139.	
11. 2	B-4		131	
142.0	11111-1	/	145	.64 - 32 - 42 - 10.0
	11111111		145 BA:	164 2 50-78 - 28.0
	11/1/	SANDY CLAY	PLU	12 3-125-140 - 15.0
156.0	11111			4-
	111111			5-
		(LAX		6-
				7-
170.0		-		8-
SOUND TEST-	Found or K		C	9-
VERTICALITY T	Found o K		RS	10-
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His	CCTD	J.E & A.E	P.M.C.T.P.I.A	E.E.
10	PIN 3		4	
14	3002 0			

TUBE WELL ASSEMBLY



Depth of Tube well :- 170 M

Lowering of Tube well assembly: 145.96 M

Plane/Housig pipe

36.25 M

Plane pipe

Slotted pipe

91.62 M

18.09 M

Required Dicharge

LPM

(Jal Nigam)

Project Name

(Jal Nigam)

Implementation of Rural Water Supply Projects in the Gorakhpur District of Gorakhpur Division Uttar pradesh under jeevan mission Name of Block :- GOLA

(Jal Nigam)

Name of Village

:-POKHARIGAON

Executive Director, SWSM Lucknow State Water & sanitation Mission, 6 Rana Pratap Marg

Lucknow - 2260001 . Uttar Pradesh .

iName of Contractor

NCC Limited

Ansal API. Sector - C2/183. Sushant Gold City, Near SJ,

NCC Limited

NCC LTD.

STATE WATER AND SANITATION MISSION

CLIENT: JJM / SWSM /DWSM

CONSULTANT: Medhaj Techno Concepts Private Ltd.
SIEVE ANALYSIS OF PEA GRAVELS (1.6 mm to 4.8 mm)

(As per IS: 460)



Date of Testing:		27-00.	- 2021.						
Test report no :	Neel a	xP-5/0c/0	Ч						
			(4		41				
SL NO.	DESC	RIPTION		OBSER	/ATIONS				
1	Source of materi	al:							
2	Location :		Block Name-	Gola- Okhari					
3	Date of sampling	:	26-	08-202	gasn.				
			0,0						
4	Lab. Test no :		(24					
5	Sample no. :	s .		OI					
6	Total wt. of samp	ole (gm) :		1000 g	, w				
G.			SIEVE ANALYSIS						
IS Sieve Size	Wt. retained (gm)	Cumulative wt. Retained (gm)	Cumulative % wt. Retained	% passing	Specific limit				
6.3 mm	0	Ø	0	100	ok				
4.75 mm	40	48	4.8	95.2	oK				
2.36 mm	902	950	95	5	ok				
1.18 mm	40	298	99.8	0.2	oK				
Pan	01			H-1-	2				

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DY.	60
30	NCC LTD.



CLIENT

MAR			1	VCC LTD.		SULT OF UTTAGE				
IKAP			STATE WATER AN	D SANITATION	MISSION					
NCC Limited			CLIENT: JJN	1/swsm/dws	5M	1)	GIB.			
			CONSULTANT: Medha	j Techno Conce	epts Private Ltd.		ři.			
		S	PECIFIC GRAVITY OF F	EA GRAVELS- 1	.6 mm to 4.8 mm					
			As per	IS: 2386 (Part-3	3)		1			
Date of Testing-		27-	08-2021	9						
Test report no -	Nul axl-	sl Bcl	04							
=					e*					
SL NO.	DESCRIPTIO	N		zi.	OBSERVATIO	ONS				
1	Source of material :		Naini	Uttrakl	and i					
			NAME OF THE BLOC	к- (5704-					
2	Location:		NAME OF THE GRAP	A PANCHAYAT -	POK	harigaon	L 7			
3	Date of sampling :			00-202	2!					
4	Lab. Test no :			04	M 4					
5	Sample no :			ロユ	22	- A				
SPECIFIC GRAVITY TEST AT ROOM TEMPERATURE										
6	Weight of the Jar, W1 (gmi)=		4	252 gm					
7	Weight of Jar + Gravel,	W2 (gm)=	-1		445 gas					
8	Weight of Jar + Gravel	+ Water, W	3 (gm)=	7	846 gm					
9	Weight of the Jar + Wa	ter, W4 (gm)=		724 gm '					
10	Specific Gravity =	. W	2 - W1	19	3 = 2.7.					
	Specific drawity -	(W2 - W	1) - (W3 - W4)	193-	122					
Note : The Specifi	c Gravity should not be	less than 2.	5	я						
De la	CC LTD.		Desir of	Sal.		CLIENT				
			10/20				J			



TECHPRO ENGINEERS PVT. LTD.

(Laboratory Division)

Lab Add. 131, Ram Ganga Housing Society, Naramau, Kanpur- 209217, Tel.: 0512-2525759, 09793209918, Web site: www.techproindia.com

e-mail: tepllab@gmail.com, info@techproindia.com.

Doc No.: TEQR-36C, Issue No.: 02, Issue Date: 18/08/20, Rev. No.: 01, Rev. Date: 10/12/2020

TEPL/MT/2020-21/117

Dated: 11.10.2021

TEST REPORT

Name of Customer	:	Jal Nigam, Gorakhpur
Project	:	SWSM-JJM Project (Har Ghar Jal Mission) at Gorakhpur.
Reference No.	:	SWSM-UP/GKP/QC/TPE/001
Sample supplied to Lab by]:	Customer representative
Name of Contractor/ Agency	 :	NCC Ltd.
Sample Particulars	 :	Pea-Gravel

Sample Receipt Date	:	08-10-2021	Job No.	 :	MT117/1
Condition of sample	:	Satisfactory	SRF No.	:	2021/55
Type of Sample	:	Pea-Gravel	ULR No.	:	NA
Source of sample		Lalkuan (Uttarakhand)	Period of Testing	:	08/10/2021 to 11/10/2021

Terms & Conditions:

1. Results relate only to the test sample provided by customer.

- 2. This report is under copyright of Techpro Engineers Pvt. Ltd. (Laboratory Division) and is not to be reproduced, copied, handed over third party or used for any purpose other than for which it has been loaned.
- 3. The tested samples are retained for three months after issue of test report (if not collected by customer).
- 4. The unique identification of sample is as Job No. / Chainage No. /BH. No./SI. No. But only SI. No is mentioned in results.

Checked By:

(Technical Manager)

Towaratery one

Approved By:

Arvind Kumar Garg (Quality Manager)



TECHPRO ENGINEERS PVT. LTD.

(Laboratory Division)

Lab Add. 131, Ram Ganga Housing Society, Naramau, Kanpur- 209217, Tel.: 0512-2525759, 09793209918, Web site: www.techproindia.com

e-mail: tepllab@gmail.com, info@techproindia.com,

Doc No.: TEQR-36C, Issue No.: 02, Issue Date: 18/08/20, Rev. No.: 01, Rev. Date: 10/12/2020

I. PHYSICAL TEST RESULT

Sample Unique ID: MT117/1

SI. No.	Particu	lar of Test	Test-1 Passing %	Test-2 Passing %	Avg. Passing %	Test Method	Remark
		6.3 mm	100	100	100		
		4.75 mm	49.928	52.412	51.17		
		3.35 mm	18.992	23.930	21.461		
	Sieve	2.00 mm	13.116	17.926	15.521	IS 2386	
1.0	Analysis (% by	1.18 mm	6.412	8.016	7.214	(Part-1)-1963, RA-	-
	weight)	0.600 mm	2.562	3.410	2.986	2016	
		0.300 mm	0.164	0.818	0.491		
		0.150 mm	0.134	0.354	0.244		
		0.075 mm	0.092	0.254	0.173		
2.0	Elongation Ind	ex (% by weight)	0.0	0.0	0.0	IS 2386 (Part-1)-1963, RA- 2016	Partical Size >6.3
3.0	Hardness Test	t (Number)	7.40	8.66	8.00	IS 13630 (Part-13)-2006	-
4.0	Specific Gravit	у	2.66	2.66	2.66	IS 2386 (Part-3)-1963, RA- 2016	1-

Checked By:

(Technical Manager)

Engineers Autorities of the second of the se

Approved By:

Arvind Kumar Garg (Quality Manager)



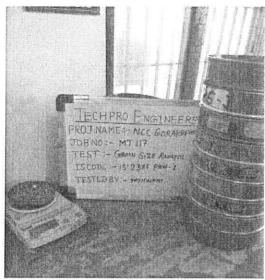
TECHPRO ENGINEERS PVT. LTD.

(Laboratory Division)

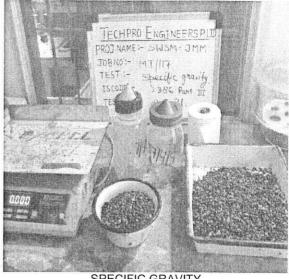
Lab Add. 131, Ram Ganga Housing Society, Naramau, Kanpur- 209217, Tel.: 0512-2525759, 09793209918, Web site: www.techproindia.com

e-mail: tepllab@gmail.com, info@techproindia.com,
Doc No.: TEQR-36C, Issue No.: 02, Issue Date: 18/08/20, Rev. No.: 01, Rev. Date: 10/12/2020

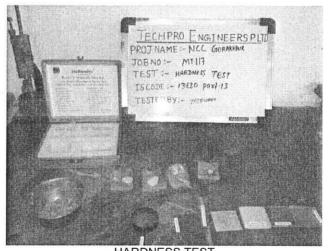
PHOTOGRAPHS



SIEVE ANALYSIS



SPECIFIC GRAVITY



HARDNESS TEST

Checked By:

(Technical Manager)

Approved By:

Arvind Kumar Garg (Quality Manager)

END OF REPORT

CIN: U28111DL2006PTC148810

DADU PIPES (P) LIMITED

Manufacturers & Exporters of MS ERW Black Pipes, Steel Tubular Poles & Hollow Sections



Email: info@dadupipes.com, Website: www.dadupipes.com Regd. Office: B-231, Okhla Industrial Area, Phase-1, New Delhi-110020

Contractor Name: NCC Limited

Client Name: State Water and Sanitation Mission

Project Name: Gorakhpur South Project

PO No.: NCC/ROK/SWSMUP-G(S)/PO/23 Dt.: 19.08.2021

TECHNICAL DATASHEET OF STEEL TUBES USED FOR WATER WELLS

S.No.	Parameter	Unit	Requirement	Vender data
1.	Name of Manufacturer			M/S Dadu Pipes Ltd.
2.	Ref IS No.		IS:4270-2001	IS:4270-2001
3.	Туре		ERW/HFIW	ERW/HFIW
4.	Ends (Plain/Bevel/Screwed)		Plain	Plain
5.	Size	mm	300mm, 200mm, 150mm	300mm, 200mm, 150mm
6.	Specified Thickness	mm	7.1mm	7.1mm
7.	Tolerance on thickness	%	As per BIS	As per BIS
8.	Tolerance on OD	mm	± 1% of OD	± 1% of OD
9	Length of Pipe	Mtr	As per order	As per order
10.	Tolerance on Mass	%	± 10%	± 10%
11	Tensile strength	MPa	410 MPa (Min.)	410 MPa (Min.)
12.	Yield Strength	MPa	235 MPa (Min.)	235 MPa (Min.)
13.	Elongation percent	%	15% (Min.)	15% (Mín.)
14	Flattening Test	%	On weld = 66% remaining On material = 33% remaining	On weld = 66% remaining On material = 33% remaining
15.	Embossing details	 >	Embossing on every metre of Manufacturer Name/logo, IS:4270, Grade & ISI Logo with CM/L No. and Size, Thickness, Grade & Batch No. stenciling on each pipe	Embossing on every metre of Manufacturer Name/logo, IS:4270, Grade & ISI Logo with CM/L No. and Size, Thickness, Grade & Batch No. stenciling on each pipe
16.	Bituminous Coating	°C	At 0°C & 65°C	At 0°C & 65°C
17.	Bead Height	%	60% Max. of specified thickness	60% Max. of specified thickness
18.	Straightness	mm	Max. 1 in 600 of any length	Max. 1 in 600 of any length
19.	Make of Steel		Tata/SAIL/Reputed make	SAIL TC to be submitted
20.	Chemical composition certificate	%	As per IS 10748, Grade-3	Raw material certificate & manufacturer test certificate to be provided
21.	Leak Proof Test	MPa	7 MPA for at least 5 sec.	7 MPA for at least 5 sec.

For Darid Pipes (P) Ltd.

Auth. Signatory

Recommended for approved with conditionable to negative following is not all asset

E 引 3 .D. (E/M) UPJN Gorakhpur अधीक्षण अभिने विव

ISO 9001:2015

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DPPL TEST

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2001

DIMENSIONAL

MAJOR

DIMENSIONS THICK& WIDTH.

JADU PIPES PVT. LID.

A-72, Industrial Arca, Sikandrabad, Bulandshahar (U.P.)

SIZE:- 100 MM NB TO 300 MM NB CONFORMING AS PER IS:4270-2001. QUALITY PLAN FOR ERW M.S. ERW PIPES (DADU MAKE)

Contractor Name:- NCC Limited, Client Name:- UP Jal Nigam

DOCUMENT NO. NO. OF PAGES

2

REV. 0

DPFL/OP/01

S.	oject Name:- State Water &	ate W	Project Name:- State Water & Sanitation Mission Goraldipur	Goraldy	ur	s *	jCa	PAGE NO.		17.		
S	Sr. COMPONENT!	_	CHARACTERISTICS	CIACC	TO CO TABLE TO LA							ī
2.	NO. OPERATION			Certification	Circor	EXTENT OF	REFERENCE	ACCEPT.	FORMAT	Scope of	Scope of Inspection	REMARKS
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***************************************	VISUAL	DIMENSIONS	DIAMETER		LENGTH	WEIGHT	STRAIGHTNESS	SURFACE & END FINISH	PLAIN, BEVEL/SCREWE	AND SOCKET	PHYSICAL PROPERTIES	FLATTENING MEND		TENSILE STRENGTH	PRESSURE/LEAKTEST		WORKMANSHIP	& PROTECTIVE	COATING
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r.	COMPONENT/ OPERATION		CHARACTERISTICS	CLASS				PAGE NO.		17		
	OTERATION.	-		C1-055	CHECK	CHECK	DOCUMENT	ACCUTT. ANCE.	FORMAT OF	Orre.	Tri(if saj)	REMARKS
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NOTE: WE GIVE OUR MANUFACTUR TEST CERTIFICATE.
R = REVIEW OF DOCUMENT
W= WITNESS
V = VERIFICATION
PREPARED BY—
Deep Nation Slogb

Drep Nation Sloys

QUALITY CONTROL ENGINEER

DADU PIPES (P) LIMITED

AFPROVED BY-

Recommended

C.D. (E/M) UPJN Gorakhpur

अधीक्षण ओभानता 23वाँ मण्डल (बिक्राउँ) उठ प्रठ जल निगम अयोध्या

TUV INDIA PRIVATE LIMITED

INSPECTION RELEASE NOTE / CERTIFICATE

IRN -8116448356-NCC/ROK/SWSMUP-G(5)/PO/23- Sr. No 1.- Rev. 00



TUV India Control Or

SAP Number:

8116448356

Date:

01-09-2021

Project Name &

Location

SWSM-Gorakhpur-South Project Gorakhpur (U.P)

TUV India Branch Name:

Noida

TUV India Client Name:

M/S. DADU PIPES PVT LTD

End User Name:

NCC LIMITED

Contractor Name & Location

Vendor Name & Location:

NCC LIMITED

M/s. Dadu Pipes (P) Ltd. A-72, Ind. Area, Sikandrabad Bulandshahar (U.P)

P.O. Number: (Client PO on Vendor) NCC/ROK/SWSMUP-G(S)/PO/23

DT:-19.08.2021

Sub Vendor Name & Location: (If applicable)

Not Applicable

P.O. Number: (If applicable - Vendor PO on Sub Vendor) Not Applicable

Item Description:

PO Item No.	Item Code Item Description	UOM	P.O. Quantity	Offered Quantity	Accepted Quantity	Cumulative accepted Quantity
1	300 MM Dia MS ERW Plain pipe 6 Mtr Length, WT:7.1 MM Thick as per IS:4270 Plain end	Mtrs	462	474	462	462
2	200 MM Dia MS ERW Plain pipe 6 Mtr Length, WT:7.1 MM Thick as per IS:4270 Plain end	Mtrs	36	48	.36	36
3	150 MM Dia MS ERW Plain pipe 6 Mtr Length, WT:7.1 MM Thick as per IS:4270 Plain end	Mtrs	180	192	180	180
4	MS ERW PLAIN END SLOTTED PIPE 150 MM Dia, Wt:7.10 mm conforming to IS:4270(Slotting as per IS:8110 & Zig Zag slots of length 75 mm x width 1.20 mm. & 780 Slot (+/- 10%) per Mtr	Mtrs	162	162	162	162

Reference Documents:

Sr. No.	Document Name	Client Document Number	Vendor Document Number	Approval Status	
1)	PR/MR/ARM	Not Applicable	Not Applicable	Not Applicable	
2)	QAP/ITP/QCP	DPPL/443/QP/01 Rev 0	Not Applicable	Approved by client	
3)	Drawing(s)	Not Applicable	Not Applicable	Not Applicable	
4)	Datasheet(s)	Not Applicable	Not Applicable	Not Applicable	
5)	Procedure(s)	Not Applicable	Not Applicable		
6)	Others (Specify)	IS 4270, IS 8110, IS 4711	Not Applicable	Not Applicable Approved	

Stages Witnessed: (For PO sr.no 4- Scope as per QAP sr. no 3.1, 3.4,3.5 only & All for rest)

- 1) Total offered quantity verified.
- QAP Sr.No 3.5 Visual inspection done for surface defects, workmanship and protective coating for all items- found satisfactory.
- QAP Sr.No 3.1 Final dimension inspection done Thickness, Outer Diameter, Length & weight for randomly selected

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EXECUTIVESUMMERY

SalientFeatures
Nameofthestate
NameoftheDistrict
NameoftheTehsil

NameoftheBlock

NameoftheProgramme NameoftheGP

No.of Village/Habitations

UTTARPRADESH

GORAKHPUR GOLA

GOLA

Under Jal Jeevan Mission ProgrammePOKHARIGAON

2/2

Tabled - Listof Village and Hebitation -

S.No	District	SubDis trictNa me	Віоск	GramPanc hayatNam e	2011 Census Code	Revenue VillageN ame	Habitation
1	AKHPU R	GOLA	0014	JARI	187739	POKHARI GAON	POKHARIGAON
2	GORA	GOLA	GOLA	POKH	187740	KALANI	KALANI

VillagePopulationSummary

Table2:Population,SC/STandHouseholdDataGP/ VILLAGE-POPULATIONDETAILS

s,NO	DESCRIPTION	GROWTH FACTORWRTY- 2011	POPULATION	SC/ST	HOUSEHOLDS
1.	AsperCensus 2011	1	1776	492	281
2.	InitialStage2022	1.24	2200	609	348
3.	MiddleStage2037	1.58	2800	775	443
4.	UltimateStage2052	1.97	3500	969	554

:

Rateofwatersupply

NatureofSources

SourceofDevelopment

DailyWaterDemandSummary

Baseyear2022

Intermediateyear2037 Designyear2052 b)

c)

NumberofTubewells

NatureofTreatments

64.7LPCD(added15%lossesover55LPCD)

Groundwater

Tube-Well

142KLD

181KLD

227KLD

No.

ChlorinatorthroughHDPETank (100L)and

meteringpump(0-6LPH)

Dosing

AverageDosing Capacity

Pumping plantforTubeWell a) No.andTypeofPlant b) AnticipatedDischarge c) TotalworkingHead

c) d)

d) Motor(HP) ServiceStorage

Quantity a) b) Capacity

Staging

0.5 PPM

1NumberofSubmersiblePump

LPM 500 41 M

12.5 HP

1No.

150KL / 12M / PipelineSummary

Table3:RisingMainSummary

PipelineType	Details oftubewe II	TubewellLocation	Material	Class	Diameter(mm)-OD	Length(m)
RisingMains	New TubeW ell	In Water Works	DI	K-9	100	35
					TotalLength(m)	35

Table4:DistributionSummary

PipelineType	Material	Class	Diameter(mm)	I amouth (m.
DistributionMains	HDPE	PN-6PE100	63	Length(m
DistributionMains	HDPE	PN-6PE100		9,790
DistributionMains	HDPE	PN-6PE100	75	779
DistributionMains	HDPE		90	17
DistributionMains		PN-6PE100	110	238
	HDPE	PN-6PE100	125	0
DistributionMains	HDPE	PN-6PE100	140	20
DistributionMains	HDPE	PN-6PE100	160	20
DistributionMains	HDPE	PN-6PE100	180	U
DistributionMains	HDPE	PN-6PE100	The state of the s	0
	1,01 -	114-0FE100	200	0
			TotalLength(m)	10,844

Instrumentdetail

Two nos. of sluice valves have been provided at the outlet of each tubewell. One will be placed at rising main to OHT and another will be placed at theinlet of the bypass chamber. One Sluice valve of required size has been provided at each of OHSR inlet pipe, Outlet pipe, Washout Pipe and for bypassarrangement. For multi village scheme, one number of sluice valve has been provided at the entry of each village. Air valve of required size has been provided at the entry of each village. Air valve of required size has alvehasbeen provided inside the OHSRcampusboundary.

Table25:ValveAbstract

				Instruments	Quantity(No)	, , , , , , , , , , , , , , , , , , , ,
Typeofinstrument	Size(mm)	Rising Main	ОНТ	Emegency By- passinOHT	Fire-Hydrants	Distribution
	200					
	150		1 (E)			-
SluiceValve	125					1
	100		2			1
	80	2 (E)				8
	20 50					8
AirValve						
	80					
	150					
	80					8
	100					
ScourValve	150					
	200					
	250					
	80	1				
	100					
	150					
Flow Meter	200					
	250					
	300				· · · · · · · · · · · · · · · · · · ·	
	350					
	400	1				
	450					
CheckValve	80	1				
Fire Hydrant					3	

1.16 DesignofdrillingandsizeofpipesforconstructionofTubewell

DischargeRequired forTube Well

500LPM

SizeofPipes(Screens/SlottedPipes)

For discharge of 500, Asper IS code recommended size of Slotted pipe is 150 mm. Hence, we adopted 150 mm dia MSS lotted pipe for construction of tube well.



Estimate for Pokharigaon Gram Panchayat Water Supply Scheme Under - SWSM Block- Gola, District- Gorakhpur

BOQ Item No.	Description	Unit	Q ty	Rate	Amount
	Survey, Design & Preperation of DPR	Ì			
1.01	All the works including Hydrological survey, topographical survey, Design charges including preparation and approval of DPR	LS	1.00	249765.00	24970
2.00	Drilling of Borehole for Tubewell construction by DC/RC/DTH Rig Machine including transportaion, crection, dismantling of Rig and assosiated T&P complete in all respect including required all material labour etc.				
	RIG Transportation for Tube Well Construction				
2.01	Transportation, Installation Dismantling of Rig machine and logging of bore hole	Job	1.00	159478.88	15947
	Tube Well Construction- Drilling of Borehole			-	
2.03	DC/RC Drilling up to 100Mtr.				
2.04	400 MMØ	Mtr.		1638.27	
2.05	450 MMØ	Mtr.		1834.20	
2.06	500 MMØ	Mtr.	100.00	2013.00	20130
2.07	600 MMØ	Mtr.		2422.00	
2.08	DC/RC Drilling from 101 Mtr. To 200 Mtr.Deep				
2.09	450 MMØ	Mtr.		1960.88	
2.10	500 MMØ	Mtr.	80.00	2144.00	171520
2.11	600 MMØ	Mtr.		2510.25	
2.12	DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep				
	450 MMØ	Mtr.		2831.63	
	500 MMØ	Mtr.		3014.75	
	600 MMØ	Mtr.		3381.00	
2.16	DC/RC Drilling from 301 Mtr. To 400 Mtr.Deep & above				
	450 MMØ	Mtr.		3319.35	
-	500 MMØ	Mtr.		3502.48	
	600 MMØ	Mtr.		3868.72	
	DTH Drilling upto 200.0 Mtr.Deep				
	200/165 MMØ (in over burden/Hard Rock)	Mtr.		1250.00	
2.22	Development / Flushing of tubewell	Hr.		2900.00	
2 01	Tubwell Assembly (Supply + Fittings & Specials)				
	MSERW plain pipe, As per IS 4270				
	100 MMØ	Mtr.		927.50	
	150 MMØ	Mtr.	109.00	1900.00	207100
	200 MMØ	Mtr.	36.00	2550.00	91800
	300 MMØ	Mtr.		3800.00	
	MSERW Pipe slotted pipe as per IS 8110				
	00 MMØ	Mtr.	ii .	1366.85	
	150 MMØ 200 MMØ	Mtr.	18.00	2800.00	50400
	600 MMØ	Mtr.		3833.80	
		Mtr.		5188.59	
S	AS fittings such as clamp, bail plug, reducer, well cap, girder & upport structure AS fittings such as ring & centre guide	LS	1.00	32295.00	32295
	Tubwell Assembly Lowering Works	RM	163.00	471.68	76884
ī	owering of above assembly with welding of parts complete in all				
7.0	espect with all required				33
	naterial, T&P, labour, etc.				
	owering up to 100 Mtr. Deep				
	OO MAG MGERIN PL	1			
	FO MACCINEDIA DI COLLI INI	Mtr.	(155	129.45	
	OO MMO MCEDW DI IOI ID:	Mtr.	64.00	281.00	17984
	OO MMO MCEDW Disingle 4 P.	Mtr.	36.00	376.50	13554
.06 L	owering from 101 Mtr. To 200 Mtr. Deep	Mtr.		472.00	
1 44	- · · · · · · · · · · · · · · · · · · ·	1			



30Q Iten No.	Description	Unit	Qty	Rate	Amount
4.08	200 MMØ MSERW Plane/Slotted Pipe	Mtr.	+		
4.09	300 MMØ MSERW Plane/Slotted Pipe	Mtr.		499.19	
4.10	Lowering from 201 Mtr. To 300 Mtr. Deep	. WITT.		745.58	
4.11	150 MMØ MSERW Plane/Slotted Pipe	Mtr.		385.19	
4.12	200 MMØ MSERW Plane/Slotted Pipe	Mtr.		459.00	
4.13	300 MMØ MSERW Plane/Slotted Pipe	Mtr.		606.62	
4.14	Lowering from 301 Mtr. To 400 Mtr. Deep & above	17161.		000.02	-
4.15	150 MMØ MSERW Plane/Slotted Pipe	Mtr.		426.53	+
4.16	200 MMØ MSERW Plane/Slotted Pipe	Mtr.		499.00	
4.17	300 MMØ MSERW Plane/Slotted Pipe	Mtr.		643.94	
	Supply and Packing of Gravel Works	1		043.54	
5.00	Supply and unconsolidated packing of gravel with suitable size	Cum	47.00	7500.00	3525
	Development of Tube well			7,000.00	3323
6.01	Tranportation, Installation Dismantling of 150 PSI Compressor	Job	1	42120.00	
6.02	Charges for Development by 150 PSI Compressor per hour	Hr.		2544.52	
6.03	Tranportation, Installation Dismantling of 250/400/600 PS	SI			
	Compressor	Job	1.00	42120.00	4212
6.04	Charges for Development by 250 PSI Compressor per hour	Hr.		3027.00	-
6.05	Charges for Development by 400 PSI Compressor per hour	Hr.	60.00	3154.10	1892
6.06	Charges for Development by 600 PSI Compressor per hour	Hr		4062.20	1072
6.07	Tranportation, Installation Dismantling of 0.5 Cusec OP Unit an	ď,			
	Yield test, water test	Job	I	22321.28	
6.08	Charges for Development of TW by 0.5 Cusec OP Unit	Hr.		785.42	
6.09	Tranportation, Installation Dismantling of 1 Cusec to 3 Cusec OP Uni	t ,	1.00		
	and Yield test, water test	Job	1.00	67225.00	6722
6.10	Charges for Development of TW by 1 cusec OP Unit	Hr.	100.00	959.00	9590
6.11	Charges for Development of TW by 3 cusec OP Unit	Hr.		1196.00	
6.12	Tranportation, Installation Dismantling of 2 Cusec OP Unit and Yield	Job		00217.00	
6.12	test, water test			89317.00	
6.13	Charges for Development of TW by 2 cusec OP Unit	Hr.		1119.00	
	Pumping Plant:-				
7.00	SITC of Pumping plant including pumps with motors starter, pannel				
	cable, complete in all respect with all required material T&P labour etc.	<u>'</u>			
7.01	1 HP				
7.02	2 HP	Nos		32518.98	
7.03	3 HP	Nos		35843.14	
	5 HP	Nos		46249.21	
	7.5HP	Nos		65037.95	
	10 HP	Nos		228500	
	12.5 HP	Nos		230200	
	15 HP	Nos	1.00	238800	238800
	17.5 HP	Nos		252100	
	20 HP	Nos		276504.56	
	25 HP	Nos		295500	N 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	30 HP	Nos	-	334043.48	
	35 HP	Nos		366163.04	
	40 HP	Nos		393723.7	
-	Variation in HP due to change of site locations increased/decreased in	Nos		426547.83	
.15	per HP of the proposed pumping plants.	Rate/HP		30467	
	Pressure Transmitter				
	Electrically operated Sluice Valve:-	Nos	1.00	43120	43120
9.00	Electrically operated Sluice Valve PN 1.0 dia 80 mm				
.00	Electrically operated Sluice Valve PN 1.0 dia 80 mm	Nos	2.00	125000	250000
.01 I	Electrically operated Stuice Valve PN 1.0 dia 100 mm	Nos		125000	
.02 H	Electrically operated Sluice Valve PN 1.0 dia 150 mm	Nos	1.00	125000	125000
	Check Valve:-	Nos		150000	
16	Check Valve PN 10 DPCV dia 100 mm				
		Non I	1.00	27519.8	27519.8
.03	Check Valve PN 1 0 DPCV dia 100 mm	Nos	2100		
.03 C	Check Valve PN 1.0 DPCV dia 100 mm	Nos	1,00	27519.8	
03 C 03 C 04 C	Check Valve PN 1.0 DPCV dia 100 mm Check Valve PN 1.0 DPCV dia 150 mm Check Valve PN 1.0 DPCV dia 150 mm Check Valve PN 1.0 DPCV dia 200 mm		1.00		



BOQ Item No.	Description	Unit	Qty	Rate	Amount
9.06	Dismantling Joint PN 1.0 dia 100 mm	Nos	1.00	3923.92	202
9.07	Dismantling Joint PN 1.0 dia 150 mm	Nos	1.00	5605.6	392- 560
9.08	Dismantling Joint PN 1.0 dia 200 mm	Nos	1.00	7367.36	300
9.09	SITC of Chain Pulley Blocks			7507.50	
9.10	1 Tonne	Nos	1.00	46305	46303
9.11	2 Tonne	Nos		58432.5	1050.
10.00	Turbidity & Chlorine analyzer	Nos	1.00	273000	273000
11.00	Hydrostatic Level Sensor:- Providing and installation hydrostatic level sensor at all tubewell pumping system including all accessories etc. complete in all respect as per instructions of Engineer -in -charge.	Nos	1.00	126000	126000
12.00	Stabalizer		 		
12.01	2 KVA	Nos	 	12777.78	
12.02	5 KVA	Nos		25555.56	
12.03	7.5 KVA	Nos		44722.22	
12.04	10 KVA	Nos			
12.05	15 KVA	Nos	ļ	127777.78	
12.06	20 KVA	Nos		166111.11	
12.07	25 KVA	Nos		191666.67	
12.08	30 KVA			204444.44	
12.09	40 KVA	Nos	-	230000	
12.10	50 KVA	Nos		281111.11	
12.11	60 KVA	Nos		319444.44	
13.00	Column Pipe:- SITC of Column pipe of MS pipe for connecting submersible pumps	Nos		345000	
13.01	32 mm Dia size - MS pipe	Mtr.		500	
13.02	40 mm dia size - MS pipe	Mtr.		666.67	
13.03	50 mm dia size - MS pipe	Mtr.		921	
13.04	65 mm Dia size - MS pipe	Mtr.		1066.67	
13.05	80 mm Dia size - MS pipe	Mtr.	30.00	1400	12000
13.06	100 mm Dia size - MS pipe	Mtr.	30.00	1567	42000
13.07	150 mm Dia size - MS pipe	Mtr.		2167	
14.00	Chlorinating System:- Supply, Installation of chlorinating system with dosing pump 0-6 LPH capacity with 100 Litres(1w+1s) tanks, valves, pipes with required accessories (Automatic dosing system for chemical injection)	JOB	1.00	112000	112000
15.00	Fluoride Removal Plant:- Supplying, installation, testing, commissioning of Fluoride removal plant for required capacity including transportation and labour charges as complete. (vendor have to select the technology based on capacity (Electrolytic-de fluoridation plant or media based system). Rates for 400 KLD/ 500 LPM	LS		8062500	
16.00 i	Iron Removal Plant:- Supplying, installation, testing, commissioning of Iron removal plant which includes vessel, media, piping valves etc. for required capacity including transportation and labour charges as complete. Rates for 400 KLD/500 LPM	LS		6062500	
7.00	Arsenic Removal Plant:- Supplying, installation, testing, commissioning of Arsenic removal plant which include vessel, media, piping valves etc. for required capacity including transportation and labour charges as complete. Rates for 200 KLD/ 500 LPM	LS		9000000	1
8.00 P	Supplying, installation, testing, commissioning of reverse osmosis plant which includes pump, micron cartridge filter, high pressure pump reverse osmosis membrane, cleaning system and required piping and alves etc. complete for required capacity including transportation and abour charges as complete. Rates for 400 KLD/500 LPM	LS		13125000	



BOQ Item No.	Description	Unit	Qty	Rate	Amount
19.00	Tube Well Electrification:-	+			+
	Internal electrification of tube well	LS	1.00	20000	20000
20.00	Solar Power Plant:- SITC of Solar power plant (for complete plant) including solar pannel, Structure, invertor etc. complete in all respect with required material, T&P labour	KW	22.00	86800	1909600
21.00	Boundary Wall:- Construction of 1.3 m high and 115mm thick boundary wall with 230 mmx230 mm thick pillar made in Brick masonry in 1 cement and 4 sand mortar, the spacing between two pillar should not be more than 3.0 m c/c and the depth of foundation should not be less than 0.60m, at the site of water works as per departmental type design and drawing, and, as per specifications given in the bid document including supply of all materials, labour T&P etc.for proper completion of work as per instructions of Engineer -in - charge. (Drawing No.D-1)	Rmt	125.20	6400	801280
22.00	MS Gate:- Supply and fixing of 3.6 m x 1.20 m MS gate including fabrication and supply of steel and construction of bounary wall pillars of size 1.35mx0.23mx0.23m with ornamental brick work 115mm th. around RCC, as per departmental type design and drawing (Drawing No. D-1) and as per specifications laid down in the bid document, including supply of all material, labour,T&P etc.required for proper completion of work as per instructions of Engineer-in-charge.	No.	1.00	52000	52000
23.00	MS Wicket Gate:- Supply and fixing of 1.2m wide MS wicket gate including fabrication and supply of steel and construction of boundary wall pillars etc. as per specifications laid down in the bid document, including supply of all material, labour, T&P etc. required for proper completion of work as per instructions of Engineer-in- charge.	No.	1.00	19000	19000
24.00	Interlocking Pavement:- Construction of Interlocking pavement for approach to water works, as per departmental type design and drawing and as per specifications laid down in the bid document, including supply of all materials, labour, T&P etc.required for proper completion of work as per instructions of Engineer -in -charge.	Sqm.	232.20	1070.5	248570
25.00 s	Granular Sub Base:- Construction of granular sub base by providing coarse grade materials, spreading in uniform layers including watering and compaction complete.	Cum	46.44	2800	130032
26.00 C	Construction of WBM:- Construction of WBM by providing grade materials, spreading in uniform layers including watering and compaction complete.	Cum	58.05	3029	175833
27.00 w	Earth Filling:- Earth filling work for proper leveling of water work site, in accordance with the contour map and Grid map of existing site enclosed (Drawing o.D-1), including leveling, dressing, excavation and filling of earth	Cum	п	890	
8.00 Pr	emicircular Drain:-	Rmt	156.50	1607.14	251517



BOQ Item No.	Description	Unit	Qty	Rate	Amount
29.00	Pump House (3.6x3.0x3.0):- Provide all materials, labour, T&P etc. complete and construct Pump house size (3.6x3.0x3.0)m Chlorinating room size (2.5x1.8x3.0)m as per departmental type design and drawing (drawing no-D-2) and as per the specifications for civil work given in the bid document, including supply of all material, labour and T&P etc complete as per instructions of Engineer -in - charge.	Job	1.00	597000	59700
30.00	Pump House (2.5x3.0x3.0):- Provide all materials, labour, T&P etc. complete and construct Pump house size (2.5x3.0x3.0)m Chlorinating room size (1.5x1.3x3.0)m as per departmental type design and drawing (drawing no-D-2) and as per the specifications for civil work given in the bid document, including supply of all material, labour and T&P etc complete as per instructions of Engineer -in - charge.	Job	8	404000	
31.00	Bye-pass Chamber:- Provide all materials, labour, T&P etc. complete and constructed Bye-pass chamber for pump house (1000 (L) x 1000 (W) x 1150 (H) mm) drawing (drawing no.D-3) and as per the specifications for civil work given in the bid document, including supply of all material, labour and T&P etc complete as per instructions of Engineer -in -charge.	No.	1.00	14600	14600
	OHT:- Supply of all materials labour T&P etc. for complete construction of R.C.C. Over Head Tank of following capacity and staging above ground level with main components, including cost of soil testing and assuming bearing capacity of soil as 8 MT, with supply of design and drawings. All the water retaining components of OHT shall be casted in M-30 concrete and minimum grade of concrete of foundation and staging should be M-25 with approved cement, coarse sand and stone grit as per I.S. 11682 and I.S. 456 Seismic effects and wind load should be taken into consideration as per I.S. 1893 for earthquake resistance and I.S. 875 part-III for wind load on structure and including 1M wide RCC staircase, 1 m wide R.C.C. M30 balcony, M.S. ladder made of 50x50x6 mm angle section and 20mm plain M.S. bars with hand rails of 20mm medium class G.I. pipes, One aluminum ladder inside the tank from top dome to bottom dome, R.C.C. railing with 20mm dia medium class G.I.pipe (in 3 rows) on both sides of stair case, supported on 50x50x6mm M.S. angle section, spaced at intervals not more than 1.5m, Proper ventilator at top dome in circular shape of 1.2 m dia, Water level indicator fabricated with sensor connecting to automation, Lightening conductor as per I.S.S.2309 or its latest amendments of latest electricity rules, consisting of proper elevation				
32.01	50 KL 10 M Staging	Job		1712500.00	
	50 KL 12 M Staging	Job		1788750.00	
	75 KL 10 M Staging 75 KL 12 M Staging	Job		2150000.00	
	100 KL 12 M Staging	Job		2242500.00	
	100 KL 16 M Staging	Job Job		2886250.00	
32.07	50 KL 12 M Staging	Job	1.00	3073750.00 3241250.00	3241250
	50 KL 16 M Staging	Job	00	3457500.00	3241250
	75 KIL12 M Staging	Job		3441250.00	
	75 KL 16 M Staging	Job		3732500.00	
	200 KL 12 M Staging 200 KL 16 M Staging	Job		3843750.00	
	00 KL 18 M Staging	Job		4040000.00	
_	25 KL 12 M Staging	Job Job		4105000.00	
2.15 2	50 KL 12 M Staging	Job		4170000.00 4537500.00	
2.16 3	00 KL 12 M Staging	Job		4877500.00	
2.17 3	00 KL 16 M Staging	Job		5508750.00	



No.	Description	Unit	Qty	Rate	Amount
32.18	350 KL 14 M Staging	Job	 	6093750.00	
32.19	400 KL 14 M Staging	Job	<u> </u>	6830000.00	
32.20	400 KL 16 M Staging	Job		7021250.00	
32.21	500 KL 14 M Staging	Job		7457500.00	
32.22	25 KI 10 M Staging	Job	-		
32,23	25 KI 12 M Staging	Job	-	1296250.00	
32.24	For 2 m Staging (5% additional per Meter)	Rm		1363750.00	
	Excavation:- Excavation of earth in ordinary soil (loam, clay or sand) for pipe line			162062.50	
33.00	and rising main trenches including lift upto 1.50 m and lead upto 50 m and refilling watering, ramming of the excavated earth into the trench and also disposal of surplus earth upto 50m from the center of the trenches including supply of all material labour, T&P etc complete as per instructions of Engineer -in -charge.	V			
34.00	Ordinary Soil		2055.14		
35.00	Mixed Soil with Kankar	Cum	3855.14	214.61	82735
36.00	Soft Rock	Cum	3855.14	249.27	96097
37.00		Cum		943.82	20,000
	Hard Rock	Cum		1319.18	
Additional	Disposal of Surplus Earth top 300 mm ht.	Cum			
38.00	Sand Bedding:- Sand Bedding in trenchs in layers not exceeding 10 cm. in depth, consolidating each deposited layer by ramming and watering complete as per instructions of Engineer.	Cum	9.29	1656.00	1538
39.00	Retaining Wall:- Construction of Retaining Wall for Protection Survey, Investigation, Soil Testing, Planning, construction, commissioning etc. as per design and drawing provided by the contractor all in accordance with the relevent latest I.S. Codes and approved by the Engineer as per conditions of the bid documents. The design and drawings provided by the contractor should be betted by any IIT Institute or Government Engineering College approved by the Engineer, on contractor's cost. For construction of R.C.C. retaining wall including excavation of earth in hard rock/soft rock/ Kanker /morrum /bajri etc. for foundation, Plain Cement Concrete 1:4:8 (one cement four fine aggregates and eight coarse aggregates) and supply of steel as per drawing including bending ,binding with all type of binding materials including wastage of steel Reinforced Cement Concrete (M20) 1:1½:3(one cement one and half fine aggregates and three coarse aggregates) including cost of all arrangement of shuttering ,scaffolding and water with supply of all materials, labors T&P etc. required for proper completion of works as per the directions of the Engineer (Provisional)	Cum		16400.00	
S s v //1	Ouctile Iron Pipes:- Supply of following sizes (D.I.) pipes for rising main/distribution system conforming to latest/relevant I.S. 8329/2000 Specifications- with all jointing materials such as specials conforming to latest relevant I.S. specifications, suitable for D.I pipes, as per IS-1239 2000 and IS 8329/2000 or their latest amendment including F.O.R. destination and all taxes and insurance etc. with loading, unloading and Carting up to site of work, also including specials for these pipes and owering them into the trenches and laying true to alignment and				
lc gr cı	radient and jointing etc. complete (including testing of pipe lines and utting of pipes for making up the length but excluding the cost of renches). all complete as per instructions of Engineer -in -charge.				
g cı tr	utting of pipes for making up the length but excluding the cost of	m		3877.6	



BOQ Item No.	Description	Unit	Qty	Rate	Amount
40.03	200 mm dia Ductile Iron K-9	m	İ	2332.32	
40.04	150 mm dia Ductile Iron K-9	m		1728.48	
40.05	125 mm dia Ductile Iron K-9	m		1411.41	
40.06	100 mm dia Ductile Iron K-9	m	35.00	1191.41	416
40.07	80 mm dia Ductile Iron K-9	m		905.41	
	Ductile Iron Pipe (K-7)		-		
40.08	300 mm dia Ductile Iron K-7	m		3151.6	
40.09	250 mm dia Ductile Iron K-7	m		2564.5	
40.10	200 mm dia Ductile Iron K-7	m	1	1848.32	
40.11	150 mm dia Ductile Iron K-7	m		1497.48	
40.12	125 mm dia Ductile Iron K-7	m		1301.41	
40.13	100 mm dia Ductile Iron K-7	m		1007.11	
40.14	80 mm dia Ductile Iron K-7	m		909.49	
	HDPE Pipes PN6, PE 100:-				
	Supply of following sizes pipes for distribution system conforming to				
	latest/ relevant I.S. 4984/1995 Specifications with all jointing materials				
	and specials conforming to latest /relevant I.S. specifications including				
41	F.O.R. destination and all taxes and insurance etc. with loading,				
	unloading and Carting up to site of work, also including specials for				
	these pipes and lowering them into the trenches and laying true to				
-	alignment and gradient and jointing etc. complete (including testing of				
	pipe lines and cutting of pipes for making up the length but excluding				
	the cost of trenches) all complete as per instructions of Engineer -in -			1	
	charge.				
41.01	90 mm dia HDPE Pipe PN6, PE 100	m	17.00	229.5	390
41.02	75 mm dia HDPE Pipe PN6, PE 100	m	779.00	169.2	13180
41.03	63 mm dia HDPE Pipe PN6, PE 100	m	9790.00	125.8	123158
1	Valves:-				
	Supply and carting up to site of work of the following dia DI butterfly				
I.	/sluice valves, class I, working pressure 10 Kg/cm2 confirming to IS:				
1	780/1969 or its latest amendments, including valve fittings &				
12.00	Dismantling Joints as per requirement F.O.R. destination, and lowering				
l.	them into the already prepared trenches, fixing in position and jointing				
	them with pipelines and testing etc. complete and also including supply				
	of jointing materials etc. complete including all taxes and insurance, as	1			
l,	per instructions of Engineer -in -charge.	- 1			
	Isolating Sluice Valve Sluice valve - 300 mm dia				
	Sluice valve - 250 mm dia	Nos		64042.00	
	Sluice valve - 200 mm dia	Nos		48109.00	
	Sluice valve - 200 mm dia	Nos		27304.00	
		Nos		17626.00	
	Sluice valve - 125 mm dia Sluice valve - 100 mm dia	Nos	1.00	14505.00	14505
		Nos	3.00	14455.00	43365
	Sluice valve - 80 mm dia	Nos	8.00	12401.00	99208
	Sluice valve - 65 mm dia	Nos.		10650.00	
	Sluice valve - 50 mm dia	Nos.		9700.00	
	Scour valve - 80 mm dia	NY.	0.00		
	cour valve - 100 mm dia	Nos	8.00	10160.84	81287
	cour valve - 150 mm dia	Nos		12535.28	No. of the last of
	cour valve - 200 mm dia	Nos		17625.57	
	cour valve - 250 mm dia	Nos		27304.03	-
-	ressure Relief Valve	Nos		48109.48	
	RV 80 mm dia	,,			
	RV 100 mm dia	Nos		54219.00	
	RV 150 mm dia	Nos		80025.00	
IU P	KA 190 HIII (II)	Nos		124575.00	



BOQ Item No.	Description	Unit	Qty	Rate	Amount
42.17	Single / Double ball type Air Valve:- Supply and installation, testing etc. of single/double ball type air valve conforming to latest/relevent I.S. specifications including all taxes and insurance, carting up to site of work and lowering them into the trenches, fixing in position and jointing them with pipelines and testing etc. complete (including supply of jointing materials and Valve fittings etc complete) as per instructions of Engineer.		0		
42.18	20 mm	Nos	8.00	10229.21	010
42.19	50 mm	Nos	8.00	23170.33	8183
42.20	80 mm	Nos		23170.33	
42.21	150 mm	Nos		41024.88	
42.22	Fire Hydrant:- Supply of under ground sluice value type fire hydrant consisting of 80 mm dia sluice valve, 80mm dia tail pieces, 80mm dia duck foot bend and 80 mm dia standard makes iron coupling with cap and etc. complete conforming to latest/relevent I.S. specifications including all taxes and insurance up to site of work and lowering them into the trenches, fixing in position and jointing them with pipelines and testing etc. complete (including supply of jointing materials and Valve fittings etc. complete as per instructions of Engineer -in - charge.	Nos	3.00	24500.00	7350
43.00	Valve Chambers:- Construction of following type chambers as per department type design and drawing including Heavy duty M.S. Manhole Cover and all materials, labour, T&P etc complete for proper completion of work as per instructions of Engineer -in -charge. Sluice Valve Chamber (Masonry Type):-				
15.01-45.02	Dia upto 200 mm - 1000 (L) x 1200 (W) x 1300 (H) mm	No.	10.00	25800.00	25800
	Sluice Valve Chamber (Surface Box Type):- Dia upto 200 mm - 1000 (L) x 1200 (W) x 1300 (H) mm	No.		5000.00	
43.05	Fire Hydrant chamber (800 (L) X 1250 (W) X 1000 (H) mm) Air Valve Chamber	No.	3.00	18500.00	55500
	350 (L) x 350 (W) x 500 (H) mm				
	Scour Valve Chamber	No.	8.00	9000.00	72000
	dia upto 200 mm - 1000 (L) x 1200 (W) x 1300 (H) mm				
43.09	PRV Valve Chamber - 1000 (L) x 1200 (W) x 1300 (H) mm	No.	8.00	29670.00	237360
44.00 at	Design and construct Thrust Block:- Design and construct Thrust Block made in R.C.C. with cement, coarse sand & 20 mm gauge stone ballast in proportion of 1:1.5:3, for pipe line, including supply of MS reinforcement wrought to equired shape as necessary, its bending, fixing & binding the same with 0.50 mm hick binding wire in position & necessary centering & shuttering neluding curing and supply of all materials, labour, T & P etc. required for proper completion of the work and as per specifications for RCC work as per instructions of Engineer -in -charge.	No.		28380.00	
44.01 C	Reinforced Cement Concrete:- Design and construct Thrust Block made in Reinforced Cement oncrete (1:1.5:3), with graded stone chips (20 mm nominal size) xeluding shuttering and reinforcement, as per technical requirements.	Cum	0.64	13656.33	8740
44.02 P	huttering:- roviding shuttering for Thrust block using approved stout props and nick hard wood planks of approved thickness with required bracing for oncrete works curved or straight including fitting fixing and striking ut after completion of works.	Sqm	6.40	420.00	2688



BOQ Item No.	Description	Unit	Qty	Rate	Amount
44.03	Reinforcement of Thrust Block:- Providing reinforcement of Thrust block for reinforced concrete work including distribution bars, stirrups, binders etc. initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with wire at every inter-section, complete as per drawing and direction.	МТ	0.03	109838.98	351
45.00	Staff Quarter / Office Room:- Provide all materials labour, T&P etc. and construct single room staff quarter / office room at water works site identified by the Engineer-incharge as per department type design and drawing and specifications of civil works laid down in the bid document, including all material labour, T&P etc complete for proper completion of work as per instructions of Engineer -in -charge. (Drawing No.D-7)	No	1,00	970600	97060
46.00	Recharge Mechanism: Water recharge Mechanism within the water works campus	Sqm	16.00	52500.00	84000
47.00	Backfilling of Earth:- Backfilling of abandoned tube well with available Earth	Cum		107.00	
48.00	Assest replacement items				
48.01	Pumping Plant:- SITC of Pumping plant including pumps with motors, starter, pannel, cable, complete in all respect with all required material T&P labour etc.				
48.02	1 HP	Nos		22510.00	
	2 HP	Nos		32518.98	
48.04	3 HP	Nos		35843.14	
48.05	5 HP	Nos		46249.21	
48.06	7.5HP	Nos		65037.95	
48.07	10 HP	Nos		228500.00	
48.08	12.5 HP	Nos		230200.00	
	15 HP	Nos		238800.00	
48.10	17.5 HP	Nos		252100.00	
	20 HP	Nos		276504.56	
	25 HP			295500.00	
	30 HP (discharge 1000 LPM Head 62 m)	Nos		334043.48	
	35 HP	Nos		366163.04	
	40 HP	Nos		393723.70	
	Furbidity & Chlorine analyzer	Nos		426547.83	
	Hydrostatic Level Sensor:-	Nos		273000.00	
48.17 F	Providing and installation hydrostatic level sensor at all tubewell pumping system including all accessories etc. complete in all respect as per instructions of Engineer -in -charge.	Nos		126000.00	
	Mtr. Long Column Pipe				
	2 mm Dia size - MS pipe	Nos		1500.00	
	0 mm dia size - MS pipe	Nos		2000.01	
	0 mm dia size - MS pipe	Nos		2763.00	
	5 mm Dia size - MS pipe	Nos		3200.01	_
	0 mm Dia size - MS pipe	Nos		4200.00	
	00 mm Dia size - MS pipe	Nos		4701.00	
48.25	50 mm Dia size - MS pipe	Nos		6501.00	
49.00 Ir co 49.00 er co	Subewell Automation System:- installation of suitable capacity simple T.W. automation system to control operation of the pumping plant with respect to high/low water evel in OHT iwith RTU panel, 7" HMI screen, surge device including energy meter inside the pump house with arrangement for communication of data with GSM and GPRS system to show required arameters including all accessories etc. complete in all respect as per estructions of Engineer -in -charge.	Job	1.00	375000	375000



BOQ Item No.	Description	Unit	Qty	Rate	Amount
50.00	Dismantling of Roads:- Dismantling of Following type of surfaces including sorting out and stacking of serviceable materials and disposal of unserviceable materials upto a distance of 50m as per instructions of Engineer -in charge.	e			
50.01	B.O.E. Surface	Sqm	1206.00	100.00	120600
50.02	Bituminous Surface	Sqm	2503.00	200.00	500600
50.03	Interlocking Road	Sqm	620.00	155.00	96100
50.04	C.C. Road	Sqm	35.00	329.96	11549
51.00	Restoration of Roads:- Reinstatement of the following type of road surface with old and new materials including supply of all materials, labour, T&P etc. required for proper completion of the work as per instructions of Engineer -in -charge.	,	55.00	323,30	11345
51.01	B.O.E. Surface (50% of existing bricks to be reused)	Sqm	1206.00	350	422100
51.02	Bituminous surface	Sqm	2503.00	1534.82	3841654
51.03	Interlocking Road	Sqm	620.00	1070.5	663710
51.04	C.C. Road	Sgm	35.00	1560.71	54625
52.00	Nala/Culvert Crossing:- Provision for following types of Culvert crossing -along the alignment of pipe line complete as per instructions of Engineer -in -charge. (casing of pipe is done by concreting)				
52.01	Nala/Culvert Crossing (width -3.5 m) upto Dia 300 mm	Nos	2.00	19000	38000
52.02-52.03	Trenchless Crossings:- Survey site Investigation Planning, design Drawings as per State Road manual and vetting / checked from State Road Divisional Office and taking NOC for trenchless crossing of National highway road and Railway track(crossing length 15m to 25m), Road for of required dia Rising main pipe with casing pipe as required for proper completion of work required size of MS casing pipe as per drawing and as per (IS:3589 & made from confining to IS:2062) with 750 Micron PU coating internally and 250 micron anti corrosive bituminous paint externally by trenchless technology method at an average depth 3.60 mtr from normal ground level up to top of casing pipe including excavation & filling of Pit, Dewatering arrangement, Supporting system for soil, also including supply and fixing of 2 no Sluice valve ISI Mark, construction of sluice valve chamber etc. all complete work including supply & fixing specials in carrier pipe over main pipe, as per specification given in the bid documents including supply of all materials, labour T&P etc. for proper completion of work as per instruction of Engineer. Railway Line crossing (Upto Dia 350 mm)	Nico			
52.04	Kaliway Line crossing (Upto Dia 350 mm)	Nos		60000	
52.05 I	National Highway road crossing (Upto Dia 350 mm) State Highway road crossing (Upto Dia 350 mm)	Nos		40000	
52.07 oo iii	Road Crossing:- Excavation in foundation of trench of proper size in soil mixed with moorum, Shingle, Kankar, soft rock, hard rock, including refilling, dressing and ramming earth or sand or bajri, ballast, including providing, supply, carting, lowering, laying and jointing of casing pipe of RCC NP-3 with appropriate size, with rubber ring joint, sand filling in gap inside RCC pipe, insertion of distribution pipe into the encasing pipe including supply of T&P, including concrete of 150 mm thick in with 40mm gauge brick ballast local sand and cement in proportion of 14:1, provision for barricading, labour for traffic diversion etc. Complete for proper completion of work as per instruction of Engineer.	Nos	W	27000	
	1		-		
	0 mm dia. Pipe	Nos		1400	
	00 mm dia. Pipe	Nos		1700	
52.10 1:	50 mm dia. Pipe			1,00	1



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BOQ Item No.	Description	Unit	Qty	Rate	Amount
52.11	200 mm dia. Pipe	Nos		2400	
52.12	250 mm dia. Pipe	Nos		3600	
52.13	300 mm dia. Pipe	Nos		3900	-
52.14	350 mm dia. Pipe	Nos		4386	
52.15	400 mm dia. Pipe	Nos		4700	
52.16	450 mm dia. Pipe	Nos		5200	
52.17	500 mm dia. Pipe	Nos		6200	
52.18	600 mm dia. Pipe	Nos		7600	
53.00	Functional House Tap Connection:- Making house connection should be done atleast 2 m inside the boundary wall with provision of tap from distribution line to outer wall of house, with supply of 1 m G.I. pipe (15 mm) (above ground) & average 5 mtr. MDPE Pipe (20 mm) (below ground) including specials, saddle, Tap,etc. of suitable size, T&P etc. including excavation, laying and jointing for proper completion of work as per instructions of Engineer as per Dwg 12 (excluding road restoration)	Nos.	348.00	3500	121800
54.00	Stand Post:- Construction of single tap pillar type stand post as per type design	Nos.	6.00	10000	6000
55.00	Operation and Maintenance:- Operation and Maintenance for 10 years of water supply schemes after completion including staff required for operation and maintenance, chemicals, all materails, specials T & P for operation and maintenance excluding electricity charges. (2% of Capex cost for first year of O&M) Note:- 6% Infletion Factor considered for arriving the O&M Cost from Second Year onwards.	Rs		5	
55.01	Cost of DPR Preperation @ 1% of CAPEX Cost of DPR	%			•
56.00	Electromagnetic flow meters	70			
A.I - 56.02	80 mm	Nos	1.00	80000	00000
	150mm	Nos.	1.00	150000	80000
	200mm	Nos.		190000	
	250mm	Nos.		225000	
	300mm	Nos.		260000	
	350mm	Nos.		330000	
	400mm	Nos.		420000	
56.07	450mm	Nos.		500000	
56.08	500mm	Nos.		550000	
57.00	Soft Starter :-	1108.		330000	
57.01	soft starter with RS485 port -400V,7.5KW Rating	Nos		60000	
57.02	soft starter with RS485 port -400V,15KW Rating	Nos		70000	
57.03	soft starter with RS485 port -400V,22KW Rating	Nos		85000	
57.04	soft starter with RS485 port -400V,30KW Rating	Nos		100000	
57.05 s	soft starter with RS485 port -400V,45KW Rating	Nos		125000	
57.06 s	soft starter with RS485 port -400V,55KW Rating	Nos -		140000	
57.07 s	soft starter with RS485 port -400V,75KW Rating	Nos		150000	-
57.08 s	soft starter with RS485 port -400V,90KW Rating	Nos		175000	
57.09 s	off starter with RS485 port -400V,110KW Rating	Nos		225000	
57.10 s	oft starter with RS485 port -400V,132KW Rating	Nos		250000	
57.11 s	oft starter with RS485 port -400V,220KW Rating	Nos		275000	
57.12 s	oft starter with RS485 port -400V,250KW Rating	Nos		325000	
57.13 s	oft starter with RS485 port -400V,312KW Rating	Nos		375000	
57.14 s	oft starter with RS485 port -400V,450KW Rating	Nos		550000	
	auto Phase Reversal Unit:-				
	00 Amp rating	Nos		45000	
	25 Amp rating	Nos		50000	
	60 Amp rating	Nos		70000	
	00 Amp rating	Nos		120000	
58.05 2:	50 Amp rating	Nos		135000	
	15 Amp rating				

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BOQ Item No.	No. Description		Qty	Rate	Amount
58.07	400 Amp rating	Nos		150000	
58.08	500 Amp rating	Nos	†	190000	
58.09	630 Amp rating	Nos		225000	
59.00	Radar type Level transmitter	Nos	1.00	120000	120000
60.00	Control Panel:-	1,05	1.00	120000	120000
	control panel for all power equipments with IP 54 protection	Nos	1.00	120000	120000
	Cabling for Tube Well:-				
61.00	complete cabling for tubewell inleuding all power and controlcables of	Nos	1.00	60000	60000
	all equipments at pumphouse and OHT	1	1.00	00000	60000
	Master Control PLC:-				-
62.00	Master control plc with CPU, SCADA software including GSM /			l	
02.00	GPRS modem, necessray firewall, ethernet switch, CCTV system	Nos		2665000	
2	January Control of the Control of th				
63.00	Installation testing and commissioning	Nos	1.00	60000	60000
Additional Items				00000	00000
A.I - 1	110 mm dia HDPE Pipe PN6, PE 100		220.00	2017	
A,I - 2	125 mm dia HDPE Pipe PN6, PE 100	m	238.00	326.71	77757
A.I - 3	140 mm dia HDPE Pipe PN6, PE 100	m	20.00	414.95	
A.I - 4	160 mm dia HDPE Pipe PN6, PE 100	m	20.00	513.86	10277
A.I - 5	180 mm dia HDPE Pipe PN6, PE 100	m		663.92	
A.I - 6	200 mm dia HDPE Pipe PN6, PE 100	m		829.93	
	Supply Installation of Display board of Size 2M X 1 M for Providing	m		1016.89	
4.I - 7	details of proposal of water supply scheme	7.0	1.00	25000	25000
A.I - 8	Provision for arboriculture for development of water works	LS	100	0.0000000000000000000000000000000000000	
A.I - 9	Battery 12 V 150 Ah (SITC)	LS	1.00	50000	50000
	9 Watts Solar Street/Yard Lights inbuilt with all accessories	Nos		92800	
	Hiring of DG Set of Capacity 25 KVA for 15 HP Pump for a lean	Nos	4.00	30000	120000
	period of 45 Days			115144	
	SITC of DG for Electricity support	Month			
	7.5 KVA				
	10 KVA	Nos		240000	
	15 KVA	Nos		260000	
	20 KVA	Nos		306000	
	25 KVA	Nos	1.00	370000	370000
	30 KVA	Nos		389000	
	40 KVA	Nos		405000	
	45 KVA	Nos		483000	
	50 KVA	Nos		495000	
	52.5 KVA	Nos		555000	
		Nos	1	569000	25,110,100,100

-			okharigaon Gra		yat		
			nter Supply Schen Under - SWSM	ne			
-			The second secon				
-	1277 10		iola, District- Go - Comprehensiv				
	Sr. No.	Description of Work	Amount (Rs. in Lacs)	%	Amount (Rs. in Lacs)	Govt, of U.P. Share	Govt. of India
		2	3	4	5	6	7
4,87	1	Cost of Work	253.46 9 LK	23	253.46	215.75	
.30	2	0.14% Discount as per Contract on Cost of work	253.46	-0.14%	0.35	-300	
14,53)_	Net Cost of Work			2534	214-91	
29	3	Add Contingency 2%	253:11	2.00%	5.06	93	
18,8	36	Sub Total (A)	2440	ري (ر	219246.05	123.03	123.03
6.26	245.12	Add GST 12 %-B	246.07	12.00%	26-379.53	31-02-14.76	14.76
36	5	Add 12.5% Centage-C	246.07	12.50%	27-130.76	32-32,30.76	-
2.4	8	Grand Total (A+B+C)	CP-15°		306.35	168.56	137.80
					397	3.01	194
		TOTAL POPULATION A (ULTIMATE	YEAR 2052)		3500	,	•
		PER CAPITA COST (NET COST+CONTIGENCY+GST	")		7031		

PREPARED BY

CHECKED BY



Alm_ J.E(T) Assistant Engineer

A.E.

Member Secretary Member

Aug

Checked And Found Ok Recommended For Approval Technical Cell (SWSM), Lucknow

EXECUTIVE ENGINEER
CONSTRUCTION DIVISION
(E/M) U.P. JAL NIGAM
GORAKHPUR



Under - SWSM Block- Gola, District- Gorakhpur		Estimate for Pokharigaon Gram Panchayat		
Block- Gola, District- Gorakhpur		Water Supply Scheme		
Estimate Number Description of Sub-Estimate Amount (Rs. Lacs)				
Estimate Number Description of Sub-Estimate Amount (Rs. Lacs)		Block- Gola, District- Gorakhpur		
Construction of Pump House 5.5		General Abstract of Cost (Comprehensive)		
E-1 Construction of Pump House 5.5	Estimate Number	Description of Sub-Estimate		A SECURIOR SECURIOR SEC
E-2 Pipelines - Raw Water Rising Main E-3 Construction of Over Head Tank - 1 Nos E-4 Pipelines - Distribution Network E-5 Construction of Boundary Wall E-6 Construction of Approach Road & Ancilliary Civil Works E-7 Construction of Staff Quarters E-8 Suvey, Investigation & Preparation of Detailed Project Report Net Cost of the Civil Works of the Scheme Polilling Construction & Development of Tube Well - 1 Nos E-9 Drilling Construction & Development of Tube Well - 1 Nos E-10 Pumping Plant & Chlorination Plant E-11 Solar Power Plant E-12 Electrical & Instrumentation Net Cost of the Electrical & Mechanical Works of the Scheme Total Net Cost of the Scheme (A + B) 253:46				(113. 12003)
E-2 Pipelines - Raw Water Rising Main E-3 Construction of Over Head Tank - 1 Nos E-4 Pipelines - Distribution Network E-5 Construction of Boundary Wall E-6 Construction of Approach Road & Ancilliary Civil Works E-7 Construction of Staff Quarters E-8 Suvey, Investigation & Preparation of Detailed Project Report Net Cost of the Civil Works of the Scheme Py 192.80 Net Cost of the Civil Works of the Scheme Pumping Plant & Chlorination Plant E-10 Pumping Plant & Chlorination Plant E-11 Solar Power Plant E-12 Electrical & Instrumentation Net Cost of the Electrical & Mechanical Works of the Scheme Total Net Cost of the Scheme (A + B) 253.46				5.97
E-3 Construction of Over Head Tank - 1 Nos E-4 Pipelines - Distribution Network E-5 Construction of Boundary Wall E-6 Construction of Approach Road & Ancilliary Civil Works E-7 Construction of Staff Quarters E-8 Suvey, Investigation & Preparation of Detailed Project Report Net Cost of the Civil Works of the Scheme P-9 Drilling Construction & Development of Tube Well - 1 Nos E-10 Pumping Plant & Chlorination Plant E-11 Solar Power Plant E-12 Electrical & Instrumentation Net Cost of the Electrical & Mechanical Works of the Scheme Total Net Cost of the Scheme (A + B) 253:46		Pipelines - Raw Water Rising Main		0.70
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