



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:

27/09/2021

Test report no :

NCClarp-slacions

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Nainital, uttrakhand
2	Location :	G.P. Name- BANS CAUN G.P. Name- Du. Apur T. C. Dhar WAL
	10 Maria 10	G.P. Name- BHOBAULI CAHARWAL
3	Date of sampling:	26/09/2021
4	Lab. Test no :	13
5	Sample no. :	~1 3
6	Total wt. of sample (gm):	1000 gm.

SIEVE ANALYSIS

IS Sieve Size	Wt. retained (gm)	Cumulative wt. Retained (gm)	Cumulative % wt. Retained	% passing	Specific limit
6.3 mm	00	00	00	100	ok
4.75 mm	232	232	23.2	76.8	014
2.36 mm	629	861	86.1	13.90	014
1.18 mm	131	992	99.2	0 . 80	ok
Pan	0,8				-

NCC LTD.

PMC/PPIA

CLIENT Batheryadow)



NICE	•		0.7	NCC LTD.		7 6	SENT OF UTTAGE	
IAPA	•		STATE WA	TER AND SANITATIO	N MISSION			
NCC Limited			CLIE	NT: JJM / SWSM /DI	JJM / SWSM /DWSM			
			CONSULTANT:	Medhaj Techno Con	cepts Private Ltd.			
		S	PECIFIC GRAVI	TY OF PEA GRAVELS-	1.6 mm to 4.8 mm			
				As per IS : 2386 (Pari	:-3)			
Date of Testing	z- 27l09	2021					21	
Test report no			L3		-	2 1		
SL NO.	DESCRIPTION	ON		å sa	OBSERVA	TIONS		
1	Source of material :		No	intal, U	Hrakhane	d		
2	Location :		NAME OF THE	BLOCK- BA	NS GAON			
	2 Location :			NAME OF THE GRAM PANCHAYAT - DHOBBULZ CHHARWAL				
3	Date of sampling :		20	[looldor]	9			
4	Lab. Test no :		13	22		- a	s	
5	Sample no :	8	1.	13				
			SPECIFIC GRAV	ITY TEST AT ROOM	remperature			
6	Weight of the Jar, W1	(gm)=			25	52 gm		
7	Weight of Jar + Gravel,	. W2 (gm)=			446	g m	0	
8	Weight of Jar + Gravel	+ Water, W3	(gm)=		શક	4 gm		
9	Weight of the Jar + Wa	ter, W4 (gm)	=		72	4 gm		
10	Specific Gravity =		- W1) - (W3 - W4)	= 194-	-	2.66	E .	
te : The Specific	Gravity should not be	less than 2.5		·	-	×		
Office NO.	CC LTD.		PMC	o les d'i		PHENT ! O.	boungadar)	





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)

Engineers & Francisco Constitution of the Cons

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.	Particular 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	1.18 mm	6.412	8.016	7.214	(Part-1)-1963, RA-	_
	(% by 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 Index (% by weight)		0.0	0.0	0.0	IS 2386 (Part-1)-1963, RA- 2016	Partical Size >6.3
3.0	Hardness Test (Number)		7.40	8.66	8.00	IS 13630 (Part-13)-2006	·
4.0	Specific Gravit	y	2.66	2.66	2.66	IS 2386 (Part-3)-1963, RA- 2016	8

Checked By:

(Technical Manager)

Engineers & Land Top of the Control of the Control

Approved By:

Arvind Kumar Garg (Quality Manager)





TECHPRO ENGINEERS PVT. LTD.

(Laboratory Division)

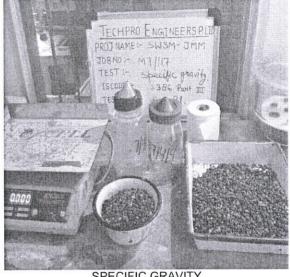
Lab Add. 131, Ram Ganga Housing Society, Naramau, Kanpur- 209217, Tel.: 0512-2525759, 09793209918, Web site: www.techproindia.com

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

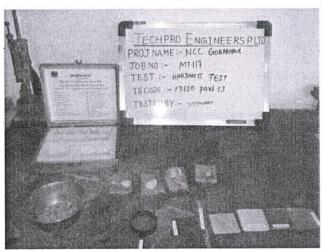
PHOTOGRAPHS



SIEVE ANALYSIS



SPECIFIC GRAVITY



HARDNESS TEST



Approved By:

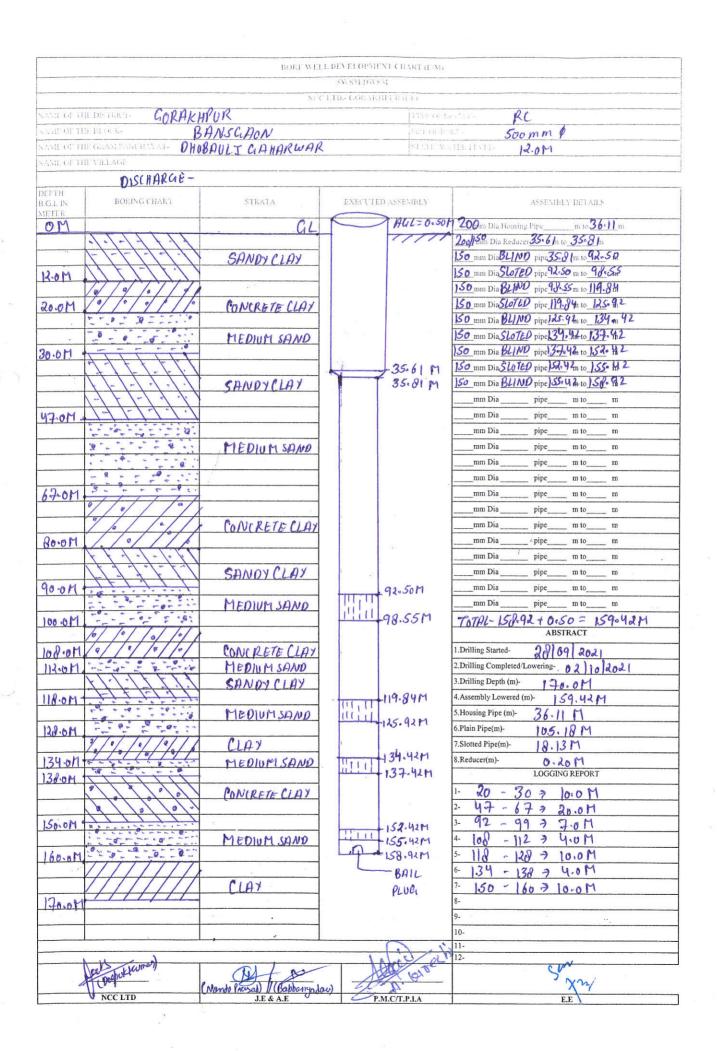
Arvind Kumar Garg (Quality Manager)

Checked By:

(Technical Manager)



END OF REPORT



NCC SWSM PROJECTS – UP – GORAKHPUR



Project Name: Survey, Design, Preparation of DPR, Construction, Commissioning and O&M for 10 years of

Various Rural Water Supply Project in the State of Uttar Pradesh - Gorakhpur District

Client

: SWSM/DWSM-UP-GKP

Consultant

: Medhaj Techno Concept Pvt. Ltd.

Contractor

: NCC Limited

Request For Inspection

RFI No:	SWSM-UP-GKP/S/Tw/10/R1	Date And Time - 20 - 9-21 / 10:00 am					
Description:	Reitefeed Lowering	Assembly.					
Location:	Block-Bangaon, G	P. Shobauli	Gabarwar.				
Preceding RFI No.	TWIO / RI.						
Commencement of work:	30-9-2024.		•				
Submitted By:	OTKarsho						
Signature:	co/wo.						
Designation:	J.E Cevil.						
Concessionaire:		Proceed	Hold				
Name: Mr, /	kuseshe	Yes					
Designation:		/ ==					
Comments: O slotted Ripe Clean and Painted. © welding is restified. © 2 toot conti coordine perint not used for pipe gelsonkly.							

Signature

Contractor Representative

Signature

Consultant Representative

Signature

Client Representative



NCC SWSM PROJECTS – UP – GORAKHPUR

Project Name: Survey, Design, Preparation of DPR, Construction, Commissioning and O&M for 10 years of

Various Rural Water Supply Project in the State of Uttar Pradesh - Gorakhpur District

Client : SWSM/DWSM-UP-GKP

Consultant : Medhaj Techno Concept Pvt. Ltd.

Contractor : NCC Limited

Request For Inspection

RFI No:	SWSM-UP-GKP/N/TW/10	Date And Time - 29 9				
Description:	Lowering of pipe with a gravel. Bansgam C.P.	szembly & fills	ig of P-			
Location:	Block-Bansgam C.P.	Dobhauli Galon	wan			
Preceding RFI No.						
Commencement of work:						
Submitted By:	sanjay Kumar singh					
Signature:	Sleop					
Designation:						
00000						
Concessionaire:		Proceed	Hold			
Concessionaire:		Proceed	Hold			
Name: Designation:	is it site. Isommo slowed pipe four pointing to one 2 pipe welding a oper so meed to reading	~	_			

Signature Contractor Representative

Signature
Consultant Representative

Signature Client Representative





Aqua Xplore

(Groundwater Assessment & Allied Services)

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

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

Ref 930 - D / AX - 2021

Date 30.09.2021

Geophysical Borehole Logging Report

Name of the site: Dhobauli Gaharwar, Block-Bansgaon

District

: Gorakhpur

Date

: 30.09.2021

Depth logged : 160.0 mbgl

Depth drilled : 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;

Sl.No.	Depth range(mbgl)	Thickness(m)	Remarks
1	20.030.0	10.0	
2	47.067.0	20.0	
3	92.099.0	7.0	Good all
4	108.0112.0	4.0	
5	118.0128.0	10.0	
6	134.0138.0	4.0	
7	150.0160.0	10.	

Note. All zones are intermixed with fine bands of kankar.

for Aqua Xplore

CC;

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



			140 W 12				
SOIL			NCC LTD. AMPLE COLLECTION REPORT				
ICC Li	mited		PROJECT - GORAKHPUR, UP				
1	Name of the Bl	ock-		BANSGA	ON		
2	Name of the Gr	am Panchayat-		DHABAULI GAHARWAR			
3	Name of the Bo						
4	Name of the Re	venue Village-					
	Drilling For Hou			200			
5	Dia of 200 mr	n/300 mm)-		200			
	Parameter 1	in/Slotted 150		150			
	Hole(mm dia			36.11			
6	Drilling For Hou Depth(For Plai			105.16/18			
7	 			103.16/17 170M			
	Total Drilling De						
8	Electrical Loggir	ig rest beptii		160M			
	T	T		T			
Si no.	Date of Sample Collection	оп Туре	of Soil Sample	Depth of Sample Collection (m)	Remarks		
1	28-09-2021	F	TINE SAND	0 - 3			
2	28-09-2021	F	FINE SAND	03 - 06			
3	28-09-2021	FINE SAI	ND WITH GRAVEL	6 - 9			
4	28-09-2021	F	TINE SAND	9 11			
5	28-09-2021	F	TINE SAND	11 - 13			
6	28-09-2021	SAND	WITH GRAVEL	13 - 16			
7	28-09-2021	F	TINE SAND	16 - 19	-		
8	28-09-2021	F	TINE SAND	19 - 22			
9	28-09-2021	F	INE SAND	22 - 25			
10	29-09-2021	SAND	WITH GRAVEL	25 - 28			
11	29-09-2021		SAND	28 - 31			
12	29-09-2021		SAND	31 - 34	=		
13	29-09-2021	SANDY CI	LAY WITH GRAVEL	34 - 37			
14	29-09-2021	SAND	WITH GRAVEL	37 - 40			
15	29-09-2021	SAND	WITH GRAVEL	40 - 43			
16	29-09-2021	SAND	WITH GRAVEL	40 - 46			
17	29-09-2021	SAND	WITH GRAVEL	46 - 49			
18	29-09-2021	SAND	WITH GRAVEL	49 - 52			
19	29-09-2021	SAND	WITH GRAVEL	52 - 55			
20	29-09-2021	SANDY CI	LAY WITH GRAVEL	55 - 58			
21	29-09-2021	SAND	WITH GRAVEL	58 - 61	***************************************		
22	29-09-2021	SAND	WITH GRAVEL	61 - 64			
23	29-09-2021	SAND	WITH GRAVEL	64 - 67			
24	29-09-2021	SAND	WITH GRAVEL	67 - 70			
25	29-09-2021	SAND	WITH GRAVEL	70 - 73			
26	29-09-2021	SAND	WITH GRAVEL	73 - 76			
27	29-09-2021	SAND	WITH GRAVEL	76 - 79			
28	29-09-2021	SANDY CLAY	WITH GRAVEL & STONE	79 - 82			
29	30-09-2021	SAND	WITH GRAVEL	82 - 85			
30	30-09-2021	SANDY CI	AY WITH GRAVEL	85 - 88			
31	30-09-2021	SANDY CI	AY WITH GRAVEL	88 - 91			
32	30-09-2021	SAND	WITH GRAVEL	91 - 94 🗠			
33	30-09-2021	SAND	WITH GRAVEL	94 - 97			
34	30-09-2021	SAND	WITH GRAVEL	097 - 100			

35	30-09-2021	SANDY CLAY WITH GRAVEL	100 - 103
36	30-09-2021	SANDY CLAY WITH GRAVEL	103 - 106
37	30-09-2021	SANDY CLAY WITH GRAVEL	106 - 109
38	30-09-2021	SANDY CLAY WITH GRAVEL	109 - 112
39	30-09-2021	SANDY CLAY WITH GRAVEL	112 - 115
40	01-10-2021	SAND CLASS WITH GRAVEL	115 - 118 😅
41	01-10-2021	SAND WITH GRAVEL	118 - 121
42	01-10-2021	SAND WITH GRAVEL	121 - 124
43	01-10-2021	SAND WITH GRAVEL	012 - 27
44	01-10-2021	SANDY CLAY WITH GRAVEL	127 - 130
45	01-10-2021	SANDY CLAY WITH GRAVEL	130 - 133
46	01-10-2021	SAND WITH GRAVEL	133 - 136 🗸
47	01-10-2021	SAND WITH GRAVEL	136 - 139 🗸
48	01-10-2021	SAND WITH GRAVEL	139 - 142
49	01-10-2021	SAND WITH GRAVEL	142 - 145
50	01-10-2021	SAND WITH GRAVEL	145 - 148
51	01-10-2021	SAND WITH GRAVEL	148 - 151
52	01-10-2021	SAND WITH GRAVEL	151 - 154
53	01-10-2021	SAND WITH GRAVEL	154 - 157
54	01-10-2021	SAND WITH GRAVEL	157 - 160
55	01-10-2021	SAND WITH GRAVEL	160 - 163
56	01-10-2021	SAND WITH GRAVEL	163 - 166
57	03-11-2021	SAND WITH GRAVEL	166 - 169
58	04-11-2021	SAND WITH GRAVEL	169 - 170
		1	
	O ZOD	Cut	4



ISO 9001:2015



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% (Min.)
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 Data Pipes (P) Ltd.

Auth. Signatory

Flecommended for approved with condition that negative followine introduces is not all as and

C.D. (E/M) UPJN Gorakhpur अधीक्षण अभिन्न अधीक्षण अभिन्न 23वाँ मण्डल (विव उठ प्रजन मि

HADUPPES PVT. LTD.

SIZE:- 100 MM NB TO 300 MM NB CONFORMING AS PER IS:4270-2001. QUALITY PLAN FOR ERW M.S. ERW PIPES (DADU MAKE) A-72, Industrial Area, Sikandrabad, Bulandshahar (U.P.)

Contractor Name:- NCC Limited.

Client Name:- UP Int Nigam Project Name:- State Water & Sanitation Mission Goraldipur

DOCUMENT NO. NO. OF PAGES PAGE NO.

2 17.

REV. n

DPFI/OF/01

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precion	11 (11 Any)	13	×	5 E	23		p.	¥		K t	: E	K	z ¤	£	æ		7		13
Scope of Inspection		10	SUPPLIEN	DETE 9C	week D Queeken	The second secon	DQ	DIPLOC		-00-	-00-			-00-	-00 -		-00-		00-
FORMAT	RECORDS	6	SUPPLIER TC	00	DPPL TEST	REPORT	-00-	DPPLTEST	REPORT	-00	00-			-00-	-00		DPPL TEST	REPORT	REPORT
ACCEPT.	NORMS	8	AS PER IS:4270	00			-00-	_00—		-00-	-000-	1001	-00-	-00-	DO		00		AS PER IS:4270
REFERENCE	ı	7	IS:10748 &	0G	-00-		-00-	ASPER	15:4270	-00-	-00-	-00 -	-00-		DO		-000-		AS PER IS:4270
EXTENT OF CHECK	V	T)	VERIFICATION OF SUPPLIER T.C	DPPLOC	100%		100%	ONEHOUR	NO DO TO	DQ	00-	-00-	- 00-	The second secon	TWO SAMPLE	rekshiri.	100%		KANDOM
TYPE OF CHECK	ĸ	- Carrier Carrier	ANALYSES	MECHANICAL	DIMENSIONAL		MSUAL	DIMENSIONAL	-00-	-001	- D0 -	VISUAL	VISUAL	Contraction of the second contraction of the	MECH. TEST		HADRAULIC TEST		VISUAL
CLASS	ष	MATOR		MAJOR	MAJOR	GO. ALG.	MUMOR	CRITICAL	-DO	MINOR	-0a	DO	-00		CRITICAL	-00-	+		MAJOR
CHARACTERIS IICS	3	CHEMICAL	COMPOSITION		DIMENSIONS THICK & WIDTH.	VISITAL	Caroladaga	DIANETER	THICKNESS	LENGTH	STRAIGHTNESS	SURFACE & END FINISH	PLAIN, BEVEL/SCREWE AND SOCKET	PHYSICAL PROPERTIES	FLATTENING MEND	TENSILE STRENGTH	PRESSURE / LEAKTEST	WORKEANerren	& PROTECTIVE COATING
7.		pret			<u>.</u>	4	-	•						2			3	4	
NO. OPERATION		T. (2000)		RAW 1 MATERIALS	H.K CLOUSKELP				***************************************		•	-	INSPECTION		A.	2	4		



F.	COMPONENTI		CHARACTERISTICS	C1 + C2				PAGE 50.		- 27		
10.	OPERATION			CLASS	TYPE OF CHECK	ENTENT OF CHECK	DOCUMENT	ACCUPY- ANCE	TORMAT DI	orr.	Tri (if An)	REMARKS
1		1	DIMENSIONAL.	4		4	7	NORMS	RECORDS 9	10	11	D
	. v			MAJOR	MEASUREMENT & VISUAL	15-4711-2608	-00-	DO		00	W	
***************************************		2	TERSILE & BEND/FLATTENING	CPUTTCAL	MECHANICAL TEST	As Per 18:4275	-50-	D()	00	- po	₩	
-	FINAL INSPECTION	3	J LEAK TEST	MAJOR	HYDRACUC TEST	239	AS FED IS:4275	AS PER 15:4270	U()	100	· · · · · · · · · · · · · · · · · · ·	er er er en
-		4	IDENTIFICATION & MARKING	MAJOR	VISUAL.	[2/.}	1-00-	(>()	— DG—	D()	. 8	
	THE PARTY OF THE P	5	WORKMANSHIP	MAJOR	VISUAL	D/3	- DO-	DO	— DO—		w	to the freedom to conside a which from any many

NOTE: WE GIVE OUR MANUFACTUR TEST CERTIFICATE.
R = REVIEW OF BOCUMANT
W = WITNESS
V = VERIFICATION
PREPARED BY — DEED Not 15 a Single
OHALTEN CONTROL ENCINEER

Deep National Stock
QUALITY CONTROL ENGINEER
DADU PIPES (P) LIMITED

AFTROYED BY-

Recommended

Č.D. (E/M) UPJN Gorakhpur

अधीक्षण ऑभानता 23वॉ मण्डल (बि०८ ॉ) उ० प्र० जल निगम अयोध्या



TUV INDIA PRIVATE LIMITED

INSPECTION RELEASE NOTE / CERTIFICATE

IRN -8116448356-NCC/ROK/SWSMUP-G(S)/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	Not Applicable
6)	Others (Specify)	IS 4270, IS 8110, IS 4711	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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Form No. : F / INSP / IRN / 03 - R7; Revision Date: 13.03.2020 Page 1 of 2

TUV INDIA PRIVATE LIMITED

INSPECTION RELEASE NOTE / CERTIFICATE



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

items as per IS 4711 - found within limits - found satisfactory.

- QAP Sr.No 3.2 Mechanical testing (Tensile, Flattening) checked on identified samples found to meet the specifical requirement (IS 4270) found satisfactory.
- 5) QAP Sr.No 3.3 Hydro test done randomly selected @5% items at 7Mpa test pressure and hold period 3 seconds minimum observed no pressure drop found satisfactory.
- 6) QAP Sr.No 3.4 Identification marking checked randomly found in order.
- All measuring instruments/ equipment were verified for continued suitability for intended use, proper identification, calibration status, traceability to national standards & found satisfactory.

Documents Reviewed:

- 1) QAP Sr. No. 1.1 Raw material test certificates reviewed for its technical content only as declared by manufacturer a endorsed by vendor— Found to meet the applicable code and project specification requirement
- 2) QAP Sr. No. 1.2, 1.3 & 1.4 Physical Properties, Dimension & Visual report of Raw material reviewed found in or
- 3) QAP Sr. No. 2.1-In-process Dimension inspection report reviewed and found in order.
- 4) QAP Sr. No. 2.2 In-process Mechanical testing report reviewed and found in order.
- 5) QAP Sr. No. 2.3 In-process Hydro testing report reviewed and found in order.
- 6) QAP Sr. No. 2.4 In-process workmanship & protective coating report reviewed and found in order.
- 7) Material test certificates Number DPPL/QC/TC-0901Date 01.09.2021 reviewed and found in order.

NCR / Walver(# Any):

None

Identification:

Witnesseditems only identified with TUV soft stamp stickers " on OD near manufacturers marking.

Order status:

☑ Complete ☐ Incomplete

Sub order status: (If applicable)

☑ Complete ☐ Incomplete

Date(s) of Inspection:

01.09.2021

Conclusion:

All items were inspected within the scope defined in approved PO, QAP, specifications & Found to meet the requirements of purchase order & Specifications.

Gauray Kumar

Inspector(s) to TUV India Private Limited

Distribution List: ☑ TUV India Client/End User☑ TUV India Executing /Originating Branch☑ Vendor/Sub Vendor Revision Number (# Applicable):00—Type Reason for revision here.

This Document Supersedes IRN No.: Mention previous IRN Number.

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EXECUTIVE SUMMERY

Salient Features
Name of the state

Name of the District

Name of the Tehsil

Name of the Block

Name of the Programme

Name of the GP

No. of Village/Habitations

UTTAR PRADESH

GORAKHPUR

BANSGAON

BANSGAON

Under Jal Jeevan Mission Programme

DHOBAULI GAHARWAR

5/5

Table 1: List of Village and Habitations

S. No	District Name	Sub District Name	Block	Gram Panchayat Name	2011 Census Code	Revenue Village Name	Habitation s Name
1					186228	DHOBAULI GAHARWAR	DHOBAULI GAHARWAR
2	บร			IARWAR	186227	BHAISHARIHA R	BHAISHARIHAR
3	GORAKHPUR	BANSGAO N	BANSGAON	LIGAH	186230	BHITKHORI	BHITKHORI
4	09		8	DHOBAULI GAHARWAR	186229	BASAULI BUJURG	BASAULI BUJURG
5			=		186226	RATANPUR RAJA	RATANPUR RAJA

Village Population Summary

Table 2: Population, SC/ST and House hold Data **GP/VILLAGE-POPULATION DETAILS**

S. NO	DESCRIPTION	GROWTH FACTOR WRT Y-2011	POPULATION	SC/ST	HOUSE HOLDS
1.	As per Census 2011	1	2213	1340	309
2.	Initial Stage 2022	1.13	2500	1514	349
3.	Middle Stage 2037	1.45	3200	1938	447
4.	Ultimate Stage 2052	1.81	4000	2423	559

Rate of water supply Nature of Sources

Source of Development

Daily Water Demand Summary

Base year 2022

Intermediate year 2037 Design year 2052

Number of Tube wells

Nature of Treatments

Average Dosing Capacity

Pumping plant for Tube Well No. and Type of Plant

Anticipated Discharge b) c) Total working Head

Motor (HP) d)

Service Storage

a) Quantity

b) Capacity

Staging c)

64.7 LPCD (added 15% losses over 55 LPCD)

Ground water

Tube-Well

162 KLD

207 KLD

259 KLD

No.

Chlorinator through HDPE Tank (100 L) and metering pump (0-6LPH)

Dosing

0.5 PPM

1 Number of Submersible Pump

550 LPM 45 M

12.5 HP

1 No.

150 KL

16 M

(5)

Pipeline Summary

Table 3: Rising Main Summary

Pipeline Type	Details of tube well	Tube well Location	Material	Class	Diameter (mm)-OD	Length (m)
Rising Mains	New Tube Well	In Water Works	DI	K-9	100	35
					Total Length (m)	35

Table 4: Distribution Summary

Pipeline Type	Material	Class	Diameter(mm)	Length (m)
Distribution Mains	HDPE	PN-6 PE100	63	9,712
Distribution Mains	HDPE	PN-6 PE100	75	185
Distribution Mains	HDPE	PN-6 PE100	90	66
Distribution Mains	HDPE	PN-6 PE100	110	562
Distribution Mains	HDPE	PN-6 PE100	125	545
Distribution Mains	HDPE	PN-6 PE100	140	413
Distribution Mains	HDPE	PN-6 PE100	160	0
Distribution Mains	HDPE	PN-6 PE100	180	<u> </u>
Distribution Mains	HDPE	PN-6 PE100	200	0
			Total Length (-n)	11,483



Estimate for DHOBAULI GAHARWAR Gram Panchayat

Water Supply Scheme Under - SWSM

Block-BANSGAON District-Gorakhpur

BOQ Item No.	Description	Unit	Qty	Rate	Amount
	Survey, Design & Preperation of DPR	+	+		7Imount
1.01	All the works including Hydrological survey, topographical survey Design charges including preparation and approval of DPR	LS	1.00	249196.00	24919
2.00	Drilling of Borehole for Tubewell construction by DC/RC/DTH Right-Machine including transportation, erection, dismantling of Rig and associated T&P complete in all respect including required all material labour etc.	4			
	RIG Transportation for Tube Well Construction				
2.01	Transportation, Installation Dismantling of Rig machine and logging of bore hole	Job	1.00	159478.88	1594
2.03	Tube Well Construction- Drilling of Borehole				
2.04	DC/RC Drilling up to 100Mtr. 400 MMØ				
2.05	450 MMØ	Mtr.		1638.27	
2.06	500 MMØ	Mtr.		1834.20	
2.07	600 MMØ	Mtr.	100.00	2013.00	2013
2.08	DC/RC Drilling from 101 Mtr. To 200 Mtr.Deep	Mtr.		2422.00	
2.09	450 MMØ				
2.10	500 MMØ	Mtr.		1960.88	
2.11	600 MMØ	Mtr.	80.00	2144.00	1715
	DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep	Mtr.		2510.25	
2.13	450 MMØ	26.			
	500 MMØ	Mtr.		2831.63	•
	600 MMØ	Mtr.		3014.75	
	DC/RC Drilling from 301 Mtr. To 400 Mtr.Deep & above	Mtr.		3381.00	
2.17	450 MMØ	3.64		2010.10	
2.18	500 MMØ	Mtr.		3319.35	
2.19	600 MMØ	Mtr.		3502.48	
2.20	DTH Drilling upto 200.0 Mtr.Deep	Witt.		3868.72	
2.21	200/165 MMØ (in over burden/Hard Rock)	Mtr.		1050.00	
2.22	Development / Flushing of tubewell	Hr.		1250.00	
	Tubwell Assembly (Supply + Fittings & Specials)	ти.		2900.00	
3.01	MSERW plain pipe, As per IS 4270				
3.02	00 MMØ	Mtr.		007.50	
	50 MMØ	Mtr.	109.00	927.50	
	00 MMØ	Mtr.	36.00	1900.00 2550.00	20710
	00 MMØ	Mtr.	30.00	3800.00	9180
3.06 N	MSERW Pipe slotted pipe as per IS 8110	27241.		3800.00	
3.07	00 MMØ	Mtr.		1366.85	
	50 MMØ	Mtr.	18.00	2800.00	5040
	00 MMØ	Mtr.	10.00	3833.80	5040
	00 MMØ	Mtr.		5188.59	
SI	IS fittings such as clamp, bail plug, reducer, well cap, girder & apport structure	LS	1.00	32295.00	32295
3.12 M	IS fittings such as ring & centre guide	RM	163.00	471.68	76884
T	ubwell Assembly Lowering Works				70002
	owering of above assembly with welding of parts complete in all				
re	spect with all required	- 1	1		
	aterial, T&P, labour, etc.				
4.01 L	owering up to 100 Mtr. Deep				
4.02 10	00 MMØ MSERW Plane/Slotted Pipe	Mtr.		129.45	
1.03 15 1.04 20	0 MMØ MSERW Plane/Slotted Pipe	Mtr.	64.00	281.00	17984
1.05 30	0 MMØ MSERW Plane/Slotted Pipe	Mtr.	36.00	376.50	13554
	00 MMØ MSERW Plain/Slotted Pipe	Mtr.		472.00	
	owering from 101 Mtr. To 200 Mtr. Deep 0 MMØ MSERW Plane/Slotted Pipe				
113	o Minist Miser w Flane/Blotted Pipe	Mtr.	63.00	376.00	23688



NCC NCC Limited

BOQ Item No.	Description	Unit	Qty.	Rate	Amount
4.08	200 MMØ MSERW Plane/Slotted Pipe	Mtr.	1	499.19	
4.09	300 MMØ MSERW Plane/Slotted Pipe	Mtr.		745.58	
4.10	Lowering from 201 Mtr. To 300 Mtr. Deep				
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				
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	
5.00	Supply and Packing of Gravel Works				
3.00	Supply and unconsolidated packing of gravel with suitable size	Cum	47.00	7500.00	3525
6.01	Development of Tube well				
6.02	Transportation, Installation Dismantling of 150 PSI Compressor	Job		42120.00	
	Charges for Development by 150 PSI Compressor per hour Transportation, Installation Dismantling of 250/400/600 PS	Нг.		2544.52	
6.03	Tranportation, Installation Dismantling of 250/400/600 PS. Compressor	Job	1.00	42120.00	421
6.04			1.00		
6.05	Charges for Development by 250 PSI Compressor per hour	Hr.		3027.00	
6.06	Charges for Development by 400 PSI Compressor per hour	Hr.	60.00	3154.10	1892
0.00	Charges for Development by 600 PSI Compressor per hour	Hr.		4062.20	
6.07	Tranportation, Installation Dismantling of 0.5 Cusec OP Unit and Yield test, water test	Job		22321.28	
6.08	Charges for Development of TW by 0.5 Cusec OP Unit	Hr.		785.42	
6.00	Tranportation, Installation Dismantling of 1 Cusec to 3 Cusec OP Unit	1111,		785.42	
6.09	and Yield test, water test	Job	1.00	67225.00	672
6.10	Charges for Development of TW by 1 cusec OP Unit	Hr.	100.00	959.00	050
6.11	Charges for Development of TW by 3 cusec OP Unit	Hr.	100.00	1196.00	959
6.10	Tranportation, Installation Dismantling of 2 Cusec OP Unit and Yield	111.		1196.00	
6.12	test, water test	Job		89317.00	
6.13	Charges for Development of TW by 2 cusec OP Unit	Hr.		1119.00	
	SITC of Pumping plant including pumps with motors starter, pannel, cable, complete in all respect with all required material T&P labour etc.				
	1 HP	Nos		32518.98	
7.02	2 HP	Nos		35843.14	
	3 HP	Nos		46249.21	
7.04	5 HP	Nos		65037.95	
7.05	7.5HP	Nos		228500	
7.06	10 HP	Nos		230200	
7.07	12.5 HP	Nos	1.00	238800	2388
7.08	15 HP	Nos	1.00	252100	2300
	17.5 HP	Nos		276504.56	
	20 HP	Nos		295500	
	25 HP	Nos		334043.48	
	30 HP	Nos	- 33	366163.04	
	35 HP	Nos		393723.7	
	40 HP	Nos		426547.83	
7.15	Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants.	Rate/HP		30467	
	Pressure Transmitter				
A 1.00 I F	Electrically operated Sluice Valve:-	Nos	1.00	43120	4312
	sectifically operated States valve.		2.00	125000	25000
Iditional	Electrically operated Sluice Valve PN 1.0 dia 80 mm	Nos			
ditional 9.00				105000	
ditional E	Electrically operated Sluice Valve PN 1.0 dia 100 mm	Nos		125000	
9.00 E 9.01 E	Electrically operated Sluice Valve PN 1.0 dia 100 mm Electrically operated Sluice Valve PN 1.0 dia 150 mm	Nos Nos	1.00	125000	12500
Halditional E 9.00 E 9.01 E 9.02 E	Electrically operated Sluice Valve PN 1.0 dia 100 mm Electrically operated Sluice Valve PN 1.0 dia 150 mm Electrically operated Sluice Valve PN 1.0 dia 200 mm	Nos			12500
ditional E	Electrically operated Sluice Valve PN 1.0 dia 100 mm Electrically operated Sluice Valve PN 1.0 dia 150 mm	Nos Nos		125000 150000	12500
Holitional F 9.00 F 9.00 F 9.01 F 9.02 F C C ditional 9.03 C	Electrically operated Sluice Valve PN 1.0 dia 100 mm Electrically operated Sluice Valve PN 1.0 dia 150 mm Electrically operated Sluice Valve PN 1.0 dia 200 mm Check Valve:-	Nos Nos Nos	1.00	125000	12500 2752



BOQ Item No.	Description	Unit	Qty.	Rate	Amount
9.05	Check Valve PN 1.0 DPCV dia 200 mm	Nos		73485.9	
	Dismantling Joint :-	1103		75405.9	
9.06	Dismantling Joint PN 1.0 dia 100 mm	Nos	1.00	3923.92	392
9.07	Dismantling Joint PN 1.0 dia 150 mm	Nos	1.00	5605.6	560
9.08	Dismantling Joint PN 1.0 dia 200 mm	Nos	1,00	7367.36	300
9.09	SITC of Chain Pulley Blocks	1.00		7507.50	
9.10	1 Tonne	Nos	1.00	46305	4630
9.11	2 Tonne	Nos		58432,5	4050.
10.00	Turbidity & Chlorine analyzer	Nos	1.00	273000	27300
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	12600
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		127777.78	
12.05	15 KVA	Nos		166111.11	
12.06	20 KVA	Nos			
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 Nos		319444.44 345000	
13.01	SITC of Column pipe of MS pipe for connecting submersible pumps 32 mm Dia size - MS pipe 40 mm dia size - MS pipe	Mtr.		500	
13.03	50 mm dia size - MS pipe	Mtr.		666.67	
13.04	65 mm Dia size - MS pipe	Mtr.		921	
13.05	80 mm Dia size - MS pipe	Mtr.		1066.67	
13.06	100 mm Dia size - MS pipe	Mtr.	30.00	1400	42000
13.07		Mtr.		1567	
15.07	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 for400 KLD/ 500 LPM	LS		8062500	
16.00	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	
17.00	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 400 KLD/ 500 LPM	LS		9000000	



BOQ Item No.	Description	Unit	Qty	Rate	Amount
18.00	TDS and Hardness Removal Plant:- 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 valves etc. complete for required capacity including transportation and labour charges as complete. Rates for 400 KLD/500 LPM	LS		13125000	a a
19.00	Tube Well Electrification:- Internal electrification of tube well	LS	1.00	20000	2000
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	190960
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	145.20	6400	929280
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.	257.40	1070.5	275547
25.00	Granular Sub Base:- Construction of granular sub base by providing coarse grade materials, spreading in uniform layers including watering and compaction complete.	Cum	51.48	2800	144144
26.00	Construction of WBM:- Construction of WBM by providing grade materials, spreading in uniform layers including watering and compaction complete.	Cum	64.35	3029	194916



BOQ Item No.	Description	Unit	Qty	Rate	Amount
27.00	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 no.D-1), including leveling, dressing, excavation and filling of earth where necessary and also including all labour, materials, T&P etc.required for proper completion of works and also including carriage of earth from within a distance of about 8 km. from the site of works as per instructions of Engineer -in -charge.	Cum		890	
28.00	Semicircular Drain:- Provision for inside semicircular drain 200mm dia including supply of all materials, labour and T & P etc. complete.	Rmt	150.00	1607.14	24107
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	597000
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		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
32.00 a s s s s s s s s s s s s s s s s s s	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 nutomation, Lightening conductor as per I.S.S.2309 or its latest				
2.01 5	one MKL 10 M Staging	Job		1712500.00	
	0 KL 12 M Staging 5 KL 10 M Staging	Job		1788750.00	
/	5 KL 12 M Staging	Job	1	2150000.00	





BOQ Item No.	Description	Unit	Qty	Rate	Amount
32.05	100 KL 12 M Staging	Job		2886250.00	
32.06	100 KL 16 M Staging	Job		3073750.00	
32.07	150 KL 12 M Staging	Job		3241250.00	
32.08	150 KL 16 M Staging	Job	1.00	3457500.00	345750
32.09	175 KlL12 M Staging .	Job		3441250.00	
32.10	175 KL 16 M Staging	Job		3732500.00	
32.11	200 KL 12 M Staging	Job		3843750.00	
32.12	200 KL 16 M Staging	Job		4040000.00	
32.13	200 KL 18 M Staging	Job		4105000.00	
32.14	225 KL 12 M Staging	Job		4170000.00	
32.15	250 KL 12 M Staging	Job		4537500.00	
32.16	300 KL 12 M Staging	Job		4877500.00	
32.17	300 KL 16 M Staging	Job		5508750.00	
32.18	350 KL 14 M Staging	Job		6093750.00	
32.19	400 KL 14 M Staging	Job		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		1296250.00	
32.23	25 KJ 12 M Staging	Job		1363750.00	
32.24	For 2 m Staging (5% additional per Meter)	Rm		172875.00	
	Excavation of earth in ordinary soil (loam, clay or sand) for pipe line 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.				
34.00	Ordinary Soil	Cum	4146.06		
	Mixed Soil with Kankar	Cum	4146.26	214.61	889829
	Soft Rock	Cum	4146.26	249.27	1033539
	Hard Rock	Cum		943.82	
	Disposal of Surplus Earth top 300 mm ht.	Cum		1319.18	
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	10.30	1656.00	17050
39.00 i	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 1.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 Coment 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	Cum		16400.00	





40.00	Ductile Iron Pipes:- Supply of following sizes (D.I.) pipes for rising main/distribution system conforming to latest/relevant I.S. 8329/2000 Specifications-	1			
	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 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 -charge.				
~	Ductile Iron Pipe (K-9)				
40.01	300 mm dia Ductile Iron K-9	m	 	2077.6	
40.02	250 mm dia Ductile Iron K-9	m		3877.6	
40.03	200 mm dia Ductile Iron K-9	m		3103.5 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	4169
40.07	80 mm dia Ductile Iron K-9	m		905.41	4109
	Ductile Iron Pipe (K-7)			705.71	
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		1848.32	
40.11	150 mm dia Ductile Iron K-7	m		1497.48	
40.12 40.13	125 mm dia Ductile Iron K-7	m		1301.41	
40.13	100 mm dia Ductile Iron K-7 80 mm dia Ductile Iron K-7	m		1007.11	
41 t	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 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 -				
	charge. 90 mm dia HDPE Pipe PN6, PE 100				5.00 8.00
11.02	75 mm dia HDPE Pipe PN6, PE 100	m	66.00	229.5	1514
	63 mm dia HDPE Pipe PN6, PE 100	m	185.00	169.2	31302
2.00 E the control of	Valves:- Supply and carting up to site of work of the following dia DI butterfly sluice valves, class I, working pressure 10 Kg/cm2 confirming to IS: 180/1969 or its latest amendments, including valve fittings & Dismantling Joints as per requirement F.O.R. destination, and lowering them into the already prepared trenches, fixing in position and jointing them with pipelines and testing etc. complete and also including supply f jointing materials etc. complete including all taxes and insurance, as cer instructions of Engineer -in -charge.	m	9712.00	125.8	1221770
	solating Sluice Valve				
	luice valve - 300 mm dia	Nos		64042.00	
2.02 SI	luice valve - 250 mm dia	Nos		48109.00	
	luice valve - 200 mm dia	Nos		27304.00	
2.03 SI	1 100			21304.00 I	
2.03 SI 2.04 SI	luice valve - 150 mm dia luice valve - 125 mm dia	Nos		17626.00	





BOQ Item No.	Description	Unit	Qty	Rate	Amount
42.07	Sluice valve - 80 mm dia	Nos		12401.00	
42.07.1	Sluice valve - 65 mm dia	Nos.	1.00	10650.00	1065
42.07.2	Sluice valve - 50 mm dia	Nos.	6.00	9700.00	5820
40.00	Scour Valve				
42.08	Scour valve - 80 mm dia	Nos	8.00	10160.84	8128
42.09	Scour valve - 100 mm dia	Nos		12535.28	
42.10	Scour valve - 150 mm dia	Nos		17625.57	
42.11	Scour valve - 200 mm dia	Nos		27304.03	
42.12	Scour valve - 250 mm dia	Nos		48109.48	
42.13	Pressure Relief Valve				
42.14	PRV 80 mm dia	Nos		54219.00	
42.15	PRV 100 mm dia	Nos		80025.00	
42.16	PRV 150 mm dia	Nos		124575.00	
42.17	Single / Double ball type Air Valve:- Supply and installation, testing etc. of single/double ball type air valve conforming to latest/relevent l.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		5		
40.10	instructions of Engineer.				
42.18	20 mm	Nos	8.00	10229.21	81834
42.19	50 mm	Nos		23170.33	
	80 mm	Nos		23170.33	
42.21	150 mm	Nos		41024.88	
42.22	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	6.00	24500.00	147000
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):-	N		27000.00	
	Dia upto 200 mm - 1000 (L) x 1200 (W) x 1300 (H) mm Sluice Valve Chamber (Surface Box Type):- Dia upto 200 mm - 1000	No.	9.00	25800.00	232200
15.05	(L) x 1200 (W) x 1300 (H) mm	No.		5000.00	
43.04 I	Fire Hydrant chamber (800 (L) X 1250 (W) X 1000 (H) mm)	No.	6.00	18500.00	111000
43.05	Air Valve Chamber				111000
43.06	350 (L) x 350 (W) x 500 (H) mm	No.	8.00	9000.00	72000
	Scour Valve Chamber				72000
43.08	lia upto 200 mm - 1000 (L) x 1200 (W) x 1300 (H) mm	No.	8.00	29670.00	237360
43.09 F	PRV Valve Chamber - 1000 (L) x 1200 (W) x 1300 (H) mm	No.		28380.00	257500
44.00 a th	Design and construct Thrust Block: Design and construct Thrust Block made in R.C.C. with cement, coarse and & 20 mm gauge stone ballast in proportion of 1:1.5:3, for pipe ine, including supply of MS reinforcement wrought to equired shape is necessary its bending, fixing & binding the same with 0.50 mm hick binding wire in position & necessary centering & shuttering including curing and supply of all materials, labour, T & P etc. equired for proper completion of the work and as per specifications for CCC work as per instructions of Engineer -in -charge.		8		*





BOQ Item No.	Description	Unit	Qty	Rate	Amount
44.01	Reinforced Cement Concrete:- Design and construct Thrust Block made in Reinforced Cement concrete (1:1.5:3), with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, as per technical requirements.	Cum	0.64	13656.33	874
44.02	Shuttering:- Providing shuttering for Thrust block using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete works curved or straight including fitting fixing and striking out after completion of works.	Sqm	6.40	420.00	268
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 48.00	Backfilling of Earth:- Backfilling of abandoned tube well with available Earth Assest replacement items	Cum		107.00	
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		32518.98	
48.03	2 HP	Nos		35843.14	
48.04	3 HP	Nos		46249.21	
48.05	5 HP	Nos		65037.95	
48.06	7.5HP	Nos		228500.00	
48.07	10 HP	Nos		230200.00	
48.08	12.5 HP	Nos		238800.00	
48.09	15 HP	Nos		252100.00	
48.10	17.5 HP	Nos		276504.56	
48.11	20 HP	Nos		295500.00	
48.12	25 HP	Nos		334043.48	
48.13	30 HP (discharge 1000 LPM Head 62 m)	Nos		366163.04	
48.14	35 HP	Nos		393723.70	
48.15	40 HP	Nos		426547.83	
48.16	Turbidity & Chlorine analyzer	Nos		273000.00	
46.17	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 -incharge.	Nos		126000.00	
	3Mtr. Long Column Pipe	76.			
	32 mm Dia size - MS pipe	Nos		1500.00	53.Vac.uV
	40 mm dia size - MS pipe	Nos	-	2000.01	
	50 mm dia size - MS pipe	Nos		2763.00	
	65 mm Dia size - MS pipe	Nos		3200.01	
	80 mm Dia size - MS pipe	Nos		4200.00	
	100 mm Dia size - MS pipe	Nos		4701.00	
48.25	150 mm Dia size - MS pipe	Nos		6501.00	

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BOQ Item No.	Description	Unit	Qty	Rate	Amount
49.00	Tubewell Automation System:- Installation of suitable capacity simple T.W. automation system to control operation of the pumping plant with respect to high/low water level in OHT iwith RTU panel, 7" HMI screen, surge device including enrgy meter inside the pump house with arrangement for communication of data with GSM and GPRS system to show required parameters including all accessories etc. complete in all respect as per instructions of Engineer -in -charge.	Job	1.00	375000	37500
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.				
50.01	B.O.E. Surface	Sqm	1181.00	100.00	11810
50.02	Bituminous Surface	Sqm	1973.00	200.00	39460
50.03	Interlocking Road	Sqm		155.00	27,100
50.04	C.C. Road	Sqm	343.00	329.96	11317
51.00	Restoration of Roads:- Reinstatement of the following type of road surface with old and new materials including supply of all meterials, labour, T&P etc. required for proper completion of the work as per instructions of Engineer -in - charge.				
51.01	B.O.E. Surface (50% of existing bricks to be reused)	Sqm	1181.00	350	41335
51.02	Bituminous surface	Sqm	1973.00	1534.82	302820
51.03	Interlocking Road	Sqm		1070.5	-
51.04	C.C. Road	Sqm	343.00	1560.71	53532
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)		9		
52.01	Nala/Culvert Crossing (width -3.5 m) upto Dia 300 mm	Nos	2.00	19000	3800
	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)	Nos		60000	
	National Highway road crossing (Upto Dia 350 mm)	Nos		40000	
32.03					



BOQ Item No.	Description	Unit	Qty	Rate	Amount
52.07	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 8:4:1, provision for barricading, labour for traffic diversion etc. Complete for proper completion of work as per instruction of Engineer.				
52.08	50 mm dia. Pipe	- ,,,			
52.09	100 mm dia. Pipe	Nos		1400	
52.10	150 mm dia. Pipe	Nos		1700	-
52.10	200 mm dia. Pipe	Nos		2000	
52.11	250 mm dia. Pipe	Nos		2400	
52.13	300 mm dia. Pipe	Nos		3600	
52.14	350 mm dia. Pipe	Nos		3900	ļ
52.15	400 mm dia. Pipe	Nos		4386	
52.16	450 mm dia. Pipe	Nos		4700	
52.17	500 mm dia. Pipe	Nos		5200	
52.18	600 mm dia. Pipe	Nos		6200	
32.10	ooo hiin dia. Pipe	Nos		7600	
53.00	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.	349.00	3500	122150
54.00	Stand Post:- Construction of single tap pillar type stand post as per type design	Nos.	15.00	10000	15000
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			
	Cost of DPR Preperation @ 1% of CAPEX Cost of DPR	%		-	
	Electromagnetic flow meters	70			
56.01	150mm	Nos.		150000	
56.02	200mm	Nos.		190000	
56.03	250mm	Nos.		225000	
56.04	300mm	Nos.		260000	
56.05	350mm	Nos.		330000	
56.06	400mm	Nos.		420000	
56.07	450mm	Nos.		500000	
56.08	500mm	Nos.		550000	
	Soft Starter :-	- 50.		22000	
	soft starter with RS485 port -400V,7.5KW Rating	Nos		60000	
	soft starter with RS485 port -400V,15KW Rating	Nos		70000	
	soft starter with RS485 port -400V,22KW Rating	Nos		85000	
	soft starter with RS485 port -400V,30KW Rating	Nos		100000	
57.05	soft starter with RS485 port -400V,45KW Rating	Nos		125000	
21.02					



BOQ Item No.	Description	Unit	Qty	Rate	Amount
57.07	soft starter with RS485 port -400V,75KW Rating	Nos	1	150000	
57.08	soft starter with RS485 port -400V,90KW Rating	Nos		175000	
57.09	soft starter with RS485 port -400V,110KW Rating	Nos	 	225000	†
57.10	soft starter with RS485 port -400V,132KW Rating	Nos		250000	
57.11	soft starter with RS485 port -400V,220KW Rating	Nos	 	275000	
57.12	soft starter with RS485 port -400V,250KW Rating	Nos	<u> </u>	325000	
57.13	soft starter with RS485 port -400V,312KW Rating	Nos	 	375000	
57.14	soft starter with RS485 port -400V,450KW Rating	Nos		550000	
58.00	Auto Phase Reversal Unit:-	1103		330000	
58.01	100 Amp rating	Nos		45000	
58.02	125 Amp rating	Nos	-	50000	
58.03	160 Amp rating	Nos	ļ	-	
58.04	200 Amp rating	~~~		70000	
58.05	250 Amp rating	Nos		120000	
58.06	315 Amp rating	Nos		135000	
58.07	400 Amp rating	Nos		140000	
58.08		Nos		150000	
	500 Amp rating	Nos		190000	
58.09	630 Amp rating	Nos		225000	
59.00	Radar type Level transmitter	Nos	1.00	120000	12000
60.00	Control Panel:-	Nos	1.00	120000	10000
	control panel for all power equipments with IP 54 protection	1408	1.00	120000	12000
months consumers	Cabling for Tube Well:-				
61.00	complete cabling for tubewell inleuding all power and controlcables of	Nos	1.00 -	60000	6000
	all equipments at pumphouse and OHT				0000
	Master Control PLC:-				
62.00	Master control plc with CPU, SCADA software including GSM /				
02.00	GPRS modem, necessray firewall, ethernet switch, CCTV system	Nos		2665000	
63.00	Installation testing and commissioning	Nos	1.00	60000	60000
Additional Items					00000
.I - 1	110 mm dia HDPE Pipe PN6, PE 100				
.I - 2	125 mm dia HDPE Pipe PN6, PE 100	m	562.00	326.71	18361
.1 - 3	140 mm dia HDPE Pipe PN6, PE 100	m	545.00	414.95	22614
I - 4	160 mm dia HDPE Pipe PN6, PE 100	m	413.00	513.86	21222
.I - 5	190 min dia HDPE Pipe PNO, PE 100	m		663.92	
	180 mm dia HDPE Pipe PN6, PE 100	m		829.93	
.I - 6	200 mm dia HDPE Pipe PN6, PE 100	m		1016.89	
	Supply Installation of Display board of Size 2M X 1 M for Providing		1.00	25000	2500
.I - 7	details of proposal of water supply scheme	LS	1.00	25000	25000
.I - 8	Provision for arboriculture for development of water works	LS	1.00	50000	50000
	Battery Backup with Accessories for 2 Kw Load	Nos		92800	
	40 Watts Solar Street Lights inbuilt with all accessories	Nos	4.00	30000	120000
.I - 11	SITC of DG for Electricity support			20000	. 120000
	7.5 KVA	Nos		240000	
	10 KVA	Nos		260000	
	15 KVA	Nos			
	20 KVA	Nos	1.00	306000	250000
	25 KVA	Nos	1.00	370000	370000
	30 KVA			389000	
	40 KVA	Nos		405000	
	15 KVA	Nos		483000	
	50 KVA	Nos		495000	
	52.5 KVA	Nos		555000	
		Nos		569000	
A.I - 17 11	Electromagnetic flow meters				
A.I - 12 - 1 1	00mm Electromagnetic flow meters	Nos.		100000	

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	Estimate for Dhol	ater Supply Schem		1yai			
	Under - SWSM						
		SGAON District-	Complehense	***************************************			
		- Comprehensive	Schamo				
Sr. No.	Description of Work	Amount (Rs. in Lacs)	%	Amount (Rs. in Lacs)	Govt. of U.P. Share	Govt. of India Share	
1	2	3	C 4	. 5	6	7	
1	Cost of Work	253.70	6)	253.70	-228	6.7	
2	0.14% Discount as per Contract on Cost of work	253.70	-0.14%	≥ 0.36	2:34		
	Net Cost of Work	, 9-6		253:34	225	30	
3	Add Contingency 2%	253.34	2.00%	5.07	- 9-50		
	Sub Total (A)		2	29-8258.41	129.20	129.20	
4	Add GST 12 %-B	258.4	12.00%	×731.01	15.50	15.50 2.00 C.	
5	Add 12.5% Centage-C	258.41	12.50%	32:30	32.30		
	Grand Total (A+B+C)	. /	206	-321.72	177.01	144.71	
6	20 1 Jos O&M Cost (after DLP)	-253.34	2%	429 5.07	72.04	2.53	
	Total Cost of Scheme (Excluding	0&M) 5	7.80	-334.04	•		

* DG 4 Hirring charges shall be paid

TOTAL POPULATION A (ULTIMATE YEAR 2052)	4000
Per Capita Cost (NET COST+CONTIGENCY+GST)	7235

PREPARED BY

CHECKED BY

M/S NCC Ltd.

Alex J.E(T) Assistant Engineer A

Member Secretary DWSM Eस्तिशासीहर्भाष्ट्रीता होत्रह मुख्याहिकी, 10th Div. Gorakhpur गोरखपुर

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A.E.

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

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

Aug



	Estimate for DHOBAULI GAHARWAR Gram Panchaye	at	
	Water Supply Scheme		
	Under - SWSM		
	Block- BANSGAON District- Gorakhpur	9	
	General Abstract of Cost (Comprehensive)		-
Estimate Number	Description of Sub-Estimate		Amount (Rs. Lacs)
(A) Civil Works			
E-1	Construction of Pump House		5.97
E-2	Pipelines - Raw Water Rising Main		0.70
E-3	Construction of Over Head Tank - 1 Nos		37.84
E-4	Pipelines - Distribution Network	108.44 9	9.52 108.44
E-5	Construction of Boundary Wall	1	10.00
E-6	Construction of Approach Road & Ancilliary Civil Works	11.08	-17.88
E-7	Construction of Staff Quarters	11:00	9.71
E-8	Suvey, Investigation & Preparation of Detailed Project Report	2.64	2.49
	Net Cost of the Civil Works of the Scheme		193.03
T) T)		186.18	169-19
B) Electrical & M			
	Drilling Construction & Development of Tube Well - 1 Nos		17.93
	Pumping Plant & Chlorination Plant		12.39
	Solar Power Plant		(19.10
E-12	Electrical & Instrumentation		11.25
	Net Cost of the Electrical & Mechanical Works of the Scheme		60.66
	Total Net Cost of the Scheme (A + B)		-253.70

246-89 225-67/.