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/92/R,	Date And Time - 23/03	2012
Description:	Redification of compliance.		· ·
Location:	Black-Cola, G.f. Newada,	*	49
Preceding RFI No.	SWSM-UP-GKPISITW192		is .
Commencement of work:	23/03/2022		
Submitted By:	Britis Sale Khe.	3	
Signature:	Ad		
Designation:	Selavib		
Concessionaire:	-	Proceed	Hold
Name:			
Designation:	*		(5)
	Pea gavel test support is rotade	ed & Padang is do	ve.
omments:	Pea gavel test support is rotated	io provided.	
			and the state of t

Signature Contractor Representative Signature
Consultant Representative

Signature Client Representative



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

: SWSM/DWSM-UP-GKP

: Medhaj Techno Concept Pvt. Ltd. Consultant

: NCC Limited Contractor

Request For Inspection

	Request For Impro					0.45
RFI No:	SWSM-UP-GKP/N/S/ Tw/92	Date Ar	nd Time	- 22/03/2	02/2	7 8iaslau
Description:	Lowering of Pipe with Ass	embly	and	filling	01	P-Grave
Location:	Block-Gola GP- Newao	la				
P. ceding RFI No.	N.A.					
Commencement of work:	23/03/2022					
Submitted By:	Ankit salunione					
Signature:	South			9		V
Designation:	J.E Civil.		Proc	eed		Hold
Concessionaire:	0				+	•
Name: S	Kailesh Single Sonior Engineer					
Designation:	Sonior Engineer.	1~10	able	at Si	te	
Comments:	Sonior. Engineer. Le ysevel is mot f ent Cuble Bolatin	take	2904	Pomolny	Pr	per.
			F - y.			
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Signature Contractor Representative

Signature Consultant Representative Signature Client Representative



NCC LTD.

STATE WATER AND SANITATION MISSION

CLIENT: JJM / SWSM /DWSM

GORAKHPUR-UP



SPECIFIC GRAVITY OF PEA GRAVELS (SIZE- 1.6 mm to 4.8 mm)

As per IS: 2386 (Part-3)

	710 00	10.200(1010)
Date of Testing-	22/03/2022	
Test report no :	Neclast-slado	93
SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material:	Lakvon, Noinital, Uttrakhand
2	Location:	NAME OF THE BLOCK - COLA NAME OF THE GRAM PANCHAYAT - NEVADA
3	Date of sampling :	21/03/2022
4	Lab. Test no:	93
5	Sample no :	93
9 a	SPECIFIC GRAVITY	TEST AT ROOM TEMPERATURE
6	Weight of the Jar, W	1 (gm)= 252 g m
7	Weight of Jar + Grav	el, W2 (gm)= 446 gm
8	Weight of Jar + Grav	el + Water, W3 (gm)= 845 gm
9	Weight of the Jar + \	
	Specific	12 - W1 = 194 = 2.66
10	Gravity = (W2 - W	(1) - (W3 - W4) = 194 - 121

Note: The Specific Gravity should not be less than 2.5

NCC LTD.

PMC/TPIA

CLIENT



NCC LTD.

STATE WATER AND SANITATION MISSION



CLIENT: JJM / SWSM /DWSM

GORAKHPUR-UP

SIEVE ANALYSIS OF PEA GRAVELS (SIZE-1.6 mm to 4.8 mm)

(As per IS: 460 and IS: 4097)

Date of Testing:

22/03/2022

Test report no:

Nalart-s/Bc/093

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Lalkvon, Noinital, Utrakhand
3		Block Name- COLA
2	Location:	G.P Name- NE WADA
3	Date of sampling:	21/03/2022
4	Lab. Test no :	9.3
5	Sample no.:	93
6	Total wt. of sample (gm)	: 1000g m

SIEVE ANALYSIS

		SIE	VE ANALYSIS		
IS Sieve Size	retained	Cumulative wt. Retained (gm)	Cumulative % wt. Retained	% passing	Acceptable / Not Acceptable
6.3 mm	03	03	03	99.7	
4.75 mm	289	292	29.2	70.8	
2.36 mm	591	883	883	11.7	
1.18 mm	116	999	99.9	0 - 1	
Pan	01				
Total(gm)=	a 11				

he Hardness of Material is=

ote:- The Hardness value should not be less than 5 in Moh's scale.

CLIENT

SWSM/DWSM NCC LTD.- GORAKHPUR (UP) GORAKHPUR NAME OF THE DISTRICT-TYPE OF RIG M/C-NAME OF THE BLOCK-CIOLA SIZE OF BORE-550/500 mmd NAME OF THE GRAM PANCHAYAT-NEWADA STATIC WATER LEVEL-NAME OF THE VILLAGE-13 M J.E Incharge DISCHARGE - 550 LPM DEPTH B.G.L BORING CHART EXECUTED ASSEMBLY STRATA IN METER ASSEMBLY DETAILS MM 200 mm Dia Housing Pipe A.G.L= 0.50 m GL 200 mm Dia Housing Pipe m to 36.22m SANDY CLAY 200//So mm Dia Reducer 35: 72m to 35.92 mb 150 mm Dia BUND pipe 35.92 m to 69 500 17.0M 150 mm Dia <u>\$10760</u>pipe <u>69 50 m to</u> 74 5m MEDIUM SAND 24.0 M 150 mm Dia BUND pipe 74.50 m to 84 5 2 27-OM mm Dia Stote Opipe 84.52 m to 90.5m SANDYCLAY 30-011 150 mm Dia BUNDpipe 90.55 m to 100.5mg MEDIUM SAND 150 mm Dia 5 60/60 pipe 100.58 m to 1025 of 38-0M 150 mm Dia BUNDpipe 102.50 m to 125.500 35.72M 44.011 SANDYCLAY mm Dia 56760 Dipe 25-Som to 134.65 35.92M 150 mm Dia BUNDpipe 34-SS m to 1 40-Sm MEDIUM SAND mm Dia m to -0M mm Dia mm Dia pipe SANDY CLAY mm Dia pipe mm Dia pipe mm Dia 69.0M m to 69.50M Hill mm Dia pipe 75.0 m to FINESAND 74.50M mm Dia pipe m to SANDYCLAY mm Dia pipe 84.0M mm Dia pipe m to 84-52M MEDIUM SAND mm Dia m to 92.0M 90.55M mm Dia m to CONCRETE CLAY mm Dia pipe 100.0M Total Assembly= 14058 m + A.G.L (m) = 141.08m 100.58M 103.0M MEDIUM SAND HHILL ABSTRACT 102.5817 1.Drilling Started-2.Drilling Completed/Lowering- 23/03/2022 SANDYCLAX 3.Drilling Depth (m)- 175.0 M 4.Assembly Lowered (m)- 141.08 M 5. Housing Pipe (m)- 36 · 22 M 12550M 125.0M 6.Plain Pipe(m)-22.58M MEDIUM SAND 7.Slotted Pipe(m)-22.08M 135.0M 134.5511 8.Reducer(m)- 0.20 M LOGGING REPORT 140.58M 17 -22 3 5,0 SANDY CLAY 27 30 3 3.0 BAIL 34 > 4.0 38 PLUCI 43 58 15.0 69 75 -6.0 162-0H MEDIUM SAND 84 92 8:0 168-0M 3.0 100 103 170.0M CLAY 125 -135 7 SOUND TEST-10.0 162 - 168 VERTICALITY TEST-6.0 (Nordy Mosad) (Bobbonyadau) Markond GORP

Tele Fax: +91-0522-246-5512(O) Mobile: + 91 - 9415141232 E-mail: geo.instruments.technic@gmail.com

GEO INSTRUMENTS &

(A Division of Geophysical Exploration and Instrumentation)

Sales & Service Dealer: Uptron Borehole logging system, UPTRON INDIA LTD., LUCKNOW

Ref.GIT:UP: PJM:21-22:LS: 313

Dated: 21-03-2022

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site:

Nevada

Block:

Gola

District:

Gorakhpur

State:

Uttar Pradesh

Drilling Depth: 175.0 m bgl

Logging Depth: 173.0 m bgl

Date of Logging: 21-03-2022

Rm -17.0 Ωm Rw - 16.0 Ωm

Borehole Drilled by: M/S NCC Ltd. Gorakhpur- North, Uttar Pradesh.

Based on the interpretation of Self Potential (SP), Short Normal (N-16"), Long Normal (N-64") and Lateral (6') geophysical logs following

informations/granular zones have been deciphered:

	(meter)	Aquifer Water)
(mbgl) 17 = 22	05	Good
27 _ 30	03	Good
	04	Good
The second secon	15	Good
	06	Good
	08	Good
	03	Good
	10	Good
	06	Good
	17 - 22 27 - 30 34 - 38 43 - 58 69 - 75 84 - 92 100 - 103 125 - 135 162 - 168	27 - 30 03 34 - 38 04 43 - 58 15 69 - 75 06 84 - 92 08 100 - 103 03 125 - 135 10

Note: 1. Zone St. No. 2 & 3 are intermixed with Kankar.

2. Zone SI. No. 5 is Fine to Medium sand in nature.

For Geo Instruments & Technic's

(S. Shukla)

Regd. Office; V.I.P. Road, Near Pakri Ka Pul, Alambagh, Lucknow - 226 005



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/2022/136/R1
Dated: 05-03-2022

TEST REPORT

Name of Customer	:	Jal Nigam, Gorakhpur
Project	:	SWSM-JJM Project (Har Ghar Jal Mission) at Gorakhpur U.P.
Reference No.	:	SWSM-UP/GKP/QC/77
Sample supplied to Lab by	:	Customer representative
Name of Contractor/ Agency	:	NCC Ltd.
Sample Particulars	:	Pea-Gravel

Sample Receipt Date	:	03/03/2022	Job No.	:	MT136
Condition of sample	:	Satisfactory	SRF No.	:	2022/29
Type of Sample		Pea-Gravel	ULR No.	:	NA
Source of sample		Lalkuan (Uttarakhand)	Period of Testing	:	03/03/2022 to 05/03/2022

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:

Alok Chaulon

Alok Kumar Chauhan (Technical Manager)



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

1. PHYSICAL TEST RESULT OF PEA GRAVEL

Sample Unique ID: MT136/TEPL/02

SI. No.	Pa	rticular of Test	Test Passing %	Specification As Per IS (383 & 4097)	Test Method	Remarks	
		12.5 mm	100				
	Sieve	8.0 mm	100			1 54	
4.0	Analysis	6.30mm	100				
1.0	(% by	4.75 mm	80.90	_	IS 2386 (Part-1) 1963, RA-2016	. =	
	weight)	3.35 mm	14.40		1903, RA-2010	1903, IXA-2010	
		2.00 mm	8.60				
2.0	Combined Flakiness & Elongation Index (% by weight)		0.0	40 Max	IS 2386 (Part-1)-1963, RA- 2016	Partical Size >6.3	
3.0	Water Absorption (% by weight)		0.90	5 Max	IS 2386 (Part-3)-1963 RA-2016	-	
4.0	Specific Gravity		2.66	2.1 - 3.2	IS 2386 (Part-3)-1963 RA-2016	- ,:	
5.0	Hardness Tes	t (Number)	7.3	5 Min	IS 13630 (Part-13)-2006	2 <u>-</u>	
	Bulk Density,	Kg/litre		NO. AND	IS 2386		
6.0	a) Compacted		1.59	NA	(Part-3)-1963	:-	
	b) Loose		1.49	NA	RA-2016		



Checked By:

Alok Chaulan

Alok Kumar Chauhan (Technical Manager)



Approved By:

Arvind Kumar Garg (Quality Manager)



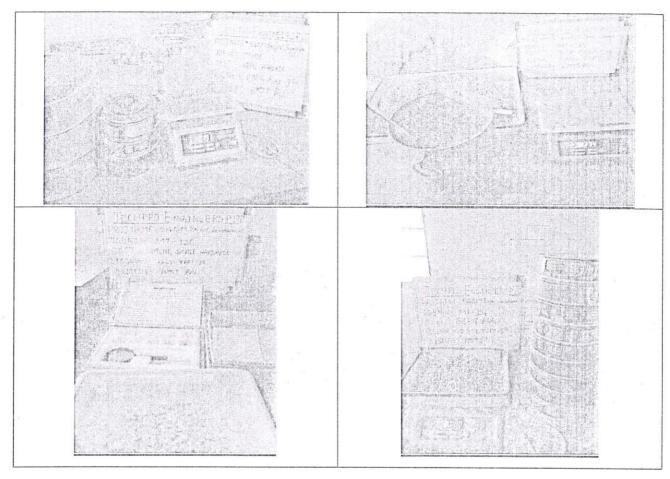
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Lab Add. 131, Ram Ganga Housing Society, Naramau, Kanpur- 209217, Tel.: 0512-2525759, 09793209918, Web site: www.techproindia.com

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

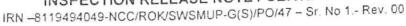




END OF REPORT

TUV INDIA PRIVATE LIMITED

INSPECTION RELEASE NOTE / CERTIFICATE





TUV India Control Or

SAP Number:

8119494049

Date:

10-12-2021

Project Name &

Location

Gorakhpur South Project

State water and sanitation Mission

TUV India Branch

Noida

Name:

TUV India Client

Name:

M/S. DADU PIPES PVT LTD

End User Name:

Executive Director, State Water and

Sanitation Mission, (U.P)

Contractor Name &

Location

NCC LIMITED.

Sub Contractor Name & Location Not Applicable

Vendor Name & Location:

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

Bulandshahr (U.P)

P.O. Number: (Client PO on Vendor) NCC/ROK/SWSMUP-G(S)/PO/47

Dt. 03.12.2021

Sub Vendor Name &

Location: (If applicable)

Not Applicable

P.O. Number: (if applicable - Vendor PO on Sub Vendort

Not Applicable

Item Description:

PO Item No.	Item Code Item Description	UOM	P.O. Quantity	Offered Quantity	Accepted Quantity	Cumulative accepted Quantity
1	200 MM Dia MS ERW Plain End pipe 6 Mtr Length, WT:5.40 MM Thick as pr IS:4270, Varnished.	Mtrs	576	588	576	576
2	150 MM Dia MS ERW Plain End pipe 6 Mtr Length,WT:5.00 MM Thick as pr IS:4270, Varnished.	Mtrs	1758	1770	1758	1758
3	MS ERW Plain end Slotted Pipe 150 mm Dia, Wt:5.40 MM conforming to IS:4270. 6 Mtr length, Slotting as per IS:8110 & Zig -Zag Slots ,Length 75mm x 1.20mm and slots per meter 780 Nos (+) 10%, Varnished.	Mtrs	438	438	438	438

Reference Documents:

Sr.	T T	D Alember	Vendor Document Number	Approval Status	
No.	Document Name	Client Document Number Vendor Document Numb		, FF	
	PR/MR/ARM	Not Applicable	Not Applicable	Not Applicable	
1)	QAP/ITP/QCP	DPPL/31/QP/01 Rev 0	Not Applicable	Approved by clien	
2)		Not Applicable	Not Applicable	Not Applicable	
3)	Drawing(s)		Not Applicable	Not Applicable	
4)	Datasheet(s)	Not Applicable	Not Applicable	Not Applicable	
5)	Procedure(s)	Not Applicable			
6)	Others (Specify)	IS 4270, IS 8110, IS 4711	Not Applicable	Approved	

Stages Witnessed:(For PO Sr. No 3 - Scope as per QAP sr. no 3.1, 3.4,3.5 only & All for rest)

1) Total offered quantity verified.

2) QAP Sr.No 3.5 Visual inspection done for surface defects, workmanship and protective coating for all items- found

3) QAP Sr.No 3.1 Final dimension inspection done Thickness, Outer Diameter, Length & weight for randomly selected items as per IS 4711 - found within limits - found satisfactory.

4) QAP Sr.No 3.2 Mechanical testing (Tensile, Flattening) checked on identified samples - found to meet the specification requirement (IS 4270) - found satisfactory.

Disclaimer: The inspection by TUV indie PALUd., review of Test Certificates / Reports and issue of Inspection Release Note / Certificate does not releve Client / Supplier / Majnutes towards the Client / End User to supply the genuine material / tern(s) and document(s) in full complaince with applicable force; Specification. Technical, Quality, Quantity, Warriphy, Gi socials is wholly legally responsible for genuineness of the material / tern(s) supplied and document(s) submitted. TUV indie is responsible; is not inheled to correctness of inspection in the series of properties within its egreed scope against written requirements and neither TUV indie nor erry of its group compenies, associates or employees are in any wayr legally responsible for gentimenes within its egreed scope against written requirements and neither TUV indie nor erry of its group compenies, associates or employees are in any wayr legally responsible for gentimenes within its egreed scope against written requirements and neither TUV indie neither to the calibration certificate(s) for the measuring instrument(s) / equipment(s) used during inspection do not have traceability to NABL / Other certifying bodies, then the scope of review is calibration certificate(s) for the measuring instrument(s) / equipment(s) used during inspection do not have traceability to NABL / Other certifying bodies, then the scope of review is calibration certificate(s) for the measuring instrument(s) / equipment(s) used during inspection do not have traceability to NABL / Other certifying bodies, then the scope of review is calibration certificate(s). The decomposition of TUV indies of TUV indies

Calibration certificate.

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TUV India Pvi. Ltd. (TÜV NORD GROUP): (REGD. & HEAD OFFICE), 801, Raheja Plaza - II, LIPS Marg. Ghatkoper (West), Mumbai - 400086, Maharashtrá, India Tel: + 91 22 66477000, Email: inspection@tuv-nord.com Website: www.tuv-nord.com/in

Form No. : F / INSP / IRN / 03 - R7; Revision Date. 13.03.2020 Page1of 2

TUV INDIA PRIVATE LIMITED

INSPECTION RELEASE NOTE / CERTIFICATE

IRN -8119494049-NCC/ROK/SWSMUP-G(S)/PO/47 - Sr. No 1.- Rev. 00

- 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.
- 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:

- QAP Sr. No. 1.1 Raw material test certificates reviewed for its technical content only as declared by manufacturer and endorsed by vendor- Found to meet the applicable code and project specification requirement
- QAP Sr. No. 1.2, 1.3 & 1.4 Physical Properties, Dimension & Visual report of Raw material reviewed found in order.
- 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.
- QAP Sr. No. 2.3 In-process Hydro testing report reviewed and found in order.
- QAP Sr. No. 2.4 In-process workmanship & protective coating report reviewed and found in order. 6)
- Material test certificates Number DPPL/QC/TC-01212 Date 10.12.2021 reviewed and found in order.

NCR	/ Waiver(# Any):	
,		

None

Identification:

Inspected items identified with TUV Hard stamp " on OD near manufacturers

marking.(Double on witnessed & rest single)

Order status:

☑ Complete ☐ Incomplete

Sub order status: (If applicable)

☑ Complete ☐ Incomplete

Date(s) of Inspection:

10,12,2021

Conclusion:

All items were inspected within the scope defined in approved PO, QAP, specifications &

Found to meet the requirements of purchase order & Specifications.

Gaurav 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 (If Applicable):00-Type Reason for revision here.

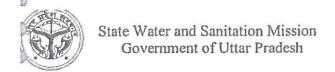
This Document Supersedes IRN No.: Mention previous IRN Number.

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Form No. : F / INSP / IRN / 03 - R7; Revision Date: 13.03.2020 Page 2 of 2



Salient Feature

Name of the State

Uttar Pradesh

Name of the District

: Gorakhpur

Name of the Block

Nevada

Name of the Programme

Jal Jeevan Mission

Name of the Gram Panchayat

Gola

No. of Village/Habitations

: 3/8

Table 1: List of village and Habitation

S. No	District	Sub District Name	Block Name	Gram Panchayat Name	2011 Census Code	Revenue Village Name	Habitations Name
1					0	Nevada	Nevada
a							Paschim Tola /
2	GORAKHPUR			l e l			Basantpur
а	Š	Gola	Gola	Nevada	0	Basantpur	Muslim Basti
b	SOR			2			Akulhiya
d	0						Harizan Basti
3					0	Banarahi	Banarahi
а							Harizan Basti

Table 2: Gram Panchayat Population Summary

S. NO	DESCRIPTION	GROWTH FACTOR WRT Y-2011	POPULATION	SC/ST	HOUSE HOLDS
1.	As per Census 2011	1	1883	748	256
2.	Initial Stage 2022	1.26	2370	941	322 /
3.	Middle Stage 2037	1.72	3230	1282	439





1						
4.	Ultimate Stage 2052	2.29	4310	1711	586	

Rate of Water Supply

: 64.70 LPCD (Added 15 % losses over 55 LPCD)

Nature of Sources

: Ground Water

Source of Development

: Tube Well

Daily Water Demand Summary

153KLD

a) Initial Year 2022 b) Intermediate Year 2037

209 KLD

c) Ultimate Year 2052

: 279 KLD

Number of Tube Wells

: 1

Nature of Treatments

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

6LPH)

Average Dosing Capacity

: 0.50 PPM

Pumping plant for Tube Well

a) No. and Type of Plant

: 1

b) Anticipated Discharge

: 550LPM

c) Total Working Head

: 42m

d) Motor (HP)

: 12.5 HP

Service Storage

a) Quantity

: 1

b) Capacity

: 150 KL 🥜

c) Staging

: 13m

Pipeline Summary

Table 3: Rising Mains

Pipeline Type	From	То	Material	Class	Diameter (mm)	Length (m)
Rising Mains	TW - 1	OHT-1	DI	K-9	150	35
	1	otal Length of l	Rising Main (m)			35

Table 4: Distribution Network Summary

Pipeline Type	Material	Class	Diameter(mm)	Length (m)
Distribution Mains	HDPE	PN-6 PE100	63	4,336
Distribution Mains	HDPE	PN-6 PE100	75	831
Distribution Mains	HDPE	PN-6 PE100	90	1,757
Distribution Mains	HDPE	PN-6 PE100	110	1,444







()

0

0

0

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

BOQ Item No.	Description	Unit	Qo	Rate	Amount
	Survey, Design & Preperation of DPR				
1.01	All the works including Hydrological survey, topographical survey, Design charges including preparation and approval of DPR	LS	1.00	237872.00	23787
2.00	Drilling of Borehole for Tubewell construction by DC/RC/DTH Rig Machine including transportation, erection, dismantling of Rig and associated T&P complete in all respect including required all material labour etc.				
Samuel Color V. Hill Color Col	RIG Transportation for Tube Well Construction	attenue (o terriboso Sirie	AMMELLIA MONTO OFFI		
2.01	Transportation, Installation Dismantling of Rig machine and logging of bore hole	Job	1.00	159478.88	15947
2.03	Tube Well Construction- Drilling of Borehole		***************************************		- 40.6 v.A
2.03	DC/RC Drilling up to 100Mtr.			1430.37	
2.04	400 MMØ	Mtr.		1638.27	
2.05	450 MMØ	Mtr.	100.00	1834.20	20120
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			1040.00	
2.09	450 MMØ	Mtr.		1960.88	11371
2.10	500 MMØ	Mtr.	67.00	2144.00	14364
2.11	600 MMØ	Mtr.		2510.25	2 Nation 2 Nation 2010
2.12	DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep			2021.62	
2.13	450 MMØ	Mtr.		2831.63	
2.14	500 MMØ	Mtr.		3014.75 3381.00	
2.15	600 MMØ	Mtr.		3381.00	
2.16	DC/RC Drilling from 301 Mtr. To 400 Mtr.Deep & above	Mtr.	*******************************	3319.35	······································
2.17	450 MMØ	Mtr.		3502.48	Managara and a state of the sta
2.18	500 MMØ	and the second s			•
2.19	600 MMØ	Mtr.	***************************************	3868.72	
2.20	DTH Drilling upto 200.0 Mtr.Deep		ar and a disk i this delicated and an age	1350.00	
2.21	200/165 MMØ (in over burden/Hard Rock)	Mtr.	v - v - v - v - v - v - v - v - v - v -	1250.00	
2.22	Development / Flushing of tubewell	Нг.		2900.00	
	Tubwell Assembly (Supply + Fittings & Specials)				e-deep war-months and a contract of the contra
3.01	MSERW plain pipe, As per IS 4270		. 10.00 2000 2000	057.50	
3.02	100 MMØ	Mtr.	20.00	927.50	17100
3.03	150 MMØ	Mtr.	90.00	1900.00	17100
3.04	200 MMØ	Mtr.	36.00	2550.00	9180
3.05	300 MMØ	Mtr.	A.C.)//SELANDELLINANDELLINANDE	3800.00	************************************
3.06	MSERW Pipe slotted pipe as per IS 8110		#*************************************	1844.05	
3.07	100 MMØ	Mtr.	64.00	1366.85	4900
3.08	150 MMØ	Mtr.	24.00	2800.00	6720
3.09	200 MMØ	Mtr.		3833.80	
3.10	300 MMØ	Mtr.		5188.59	,
3.11	MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure	LS	1.00	32295.00	3229
3.12	MS fittings such as ring & centre guide	RM	150.00	471.68	7075
	Tubwell Assembly Lowering Works				Weeren adopt 11111111111111
	Lowering of above assembly with welding of parts complete in all respect with all required				
W. W	material, T&P, labour, etc.		***************************************	-F-W-W-100000000000000000000000000000000	Historia Maria Cara Cara Cara Cara Cara Cara Cara
4.01	Lowering up to 100 Mtr. Deep	8200A0000000000000000000000000000000000			A 2007 A 2007 CONTRACTOR OF THE PARTY OF THE
4.02	100 MMØ MSERW Plane/Slotted Pipe	Mtr.	** \$V**************************	129.45	
4.03	150 MMØ MSERW Plane/Slotted Pipe	Mtr.	64.00	281.00	1798
4.04	200 MMØ MSERW Plane/Slotted Pipe	Mtr.	36.00	376.50	1355
4.05	300 MMØ MSERW Plain/Slotted Pipe	Mtr.		472.00	
4.06	Lowering from 101 Mtr. To 200 Mtr. Deep				1.000
4.07	150 MMØ MSERW Plane/Glotted Pipe	Mtr.	50.00	376.00	1886



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BOQ Item No.	Description	Unit	Qv	Rate	Amount
4.08	200 MMØ MSERW Plane/Slotted Pipe	Mtr.		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 Planc/Slotted Pipe	Mtr.		643.94	
	Supply and Packing of Gravel Works	***************************************			
5.00	Supply and unconsolidated packing of gravel with suitable size	Cum	47.00	7500.00	35250
	Development of Tube well	*	MANAGEMENT AND A THE PERSON AND A SECOND ASSECTION AND A SECOND ASSECTION		
6.01	Tranportation, Installation Dismantling of 150 PSI Compressor	Job		42120.00	
6.02	Charges for Development by 150 PSI Compressor per hour	Hr.		2544.52	
	Tranportation, Installation Dismantling of 250/400/600 PSI	3			
6.03	Compressor	Job	1.00	42120.00	4212
6.04	Charges for Development by 250 PSI Compressor per hour	Hr.	60.00	3027.00	18162
6.05	Charges for Development by 400 PSI Compressor per hour	Hr.	00.00	3154.10	
6.06	Charges for Development by 400 PSI Compressor per hour	Hr.		4062.20	
0.00	Tranportation, Installation Dismantling of 0.5 Cusec OP Unit and			4002.20	, - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3
6.07	Yield test, water test	Job		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 Unit 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	***************************************
	Transportation, Installation Dismantling of 2 Cusec OP Unit and Yield			1	
6.12	test, water test	JOB	-624.000000000000000000000000000000000000	89317.00	*******************************
6.13	Charges for Development of TW by 2 cusec OP Unit	Hr.	-MANAGER - KANAMATAN AND AND AND AND AND AND AND AND AND A	1119.00	
7.00	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.				
7.01	I HP	Nos		32518.98	
7.02	2 HP	Nos		35843.14	madel Start Someone
7.03	3 HP	Nos		46249.21	TOTAL DESIGNATION OF THE PARTY
7.04	5 HP	Nos		65037.95	
7.05	7.SHP	Nos		228500	
7.06	10 HP	Nos	_00000000000000000000000000000000000000	230200	
	₹ 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	to the second and the			-0.000 -0.00 (0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000
7.07	12.5 HP	Nos	1.00	238800	23880
7.07 7.08	12.5 HP	Nos Nos	1.00	238800 252100	238800
7.08	15 HP	Nos	1.00	252100	238800
7.08 7.09	15 HP 17.5 HP	Nos Nos	1.00	252100 276504.56	238800
7.08 7.09 7.10	15 HP 17.5 HP 20 HP	Nos Nos Nos	1.00	252100 276504.56 295500	238800
7.08 7.09 7.10 7.11	15 HP 17.5 HP 20 HP 25 HP	Nos Nos Nos	1.00	252100 276504.56 295500 334043.48	238800
7.08 7.09 7.10 7.11 7.12	15 HP 17.5 HP 20 HP 25 HP 30 HP	Nos Nos Nos Nos	1.00	252100 276504.56 295500 334043.48 366163.04	238800
7.08 7.09 7.10 7.11 7.12 7.13	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP	Nos Nos Nos Nos Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7	238800
7.08 7.09 7.10 7.11 7.12 7.13 7.14	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP	Nos Nos Nos Nos Nos Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83	238800
7.08 7.09 7.10 7.11 7.12 7.13	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in	Nos Nos Nos Nos Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7	238800
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants.	Nos Nos Nos Nos Nos Nos Rate/HP		252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467	
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter	Nos Nos Nos Nos Nos Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83	
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.II - 13	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:-	Nos Nos Nos Nos Nos Nos Nos Nos		252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120	
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm	Nos Nos Nos Nos Nos Nos Nos Nos Rate/HP		252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120	
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13 A.I - 13.01 A.I - 13.02	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm Electrically operated Sluice Valve PN 1.0 dia 125 mm	Nos Nos Nos Nos Nos Nos Nos Nos Rate/HP		252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120 125000 125000	
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13 A.I - 13.01 A.I - 13.02 9.00	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm Electrically operated Sluice Valve PN 1.0 dia 125 mm Electrically operated Sluice Valve PN 1.0 dia 100 mm	Nos Nos Nos Nos Nos Nos Nos Nos Nos Rate/HP Nos Nos Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120 125000 125000 125000	4312(
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13 A.I - 13.01 A.I - 13.02 9.00 9.01	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm Electrically operated Sluice Valve PN 1.0 dia 125 mm Electrically operated Sluice Valve PN 1.0 dia 100 mm Electrically operated Sluice Valve PN 1.0 dia 100 mm Electrically operated Sluice Valve PN 1.0 dia 150 mm	Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120 125000 125000 125000 125000	43120
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13 A.I - 13.01 A.I - 13.02 9.00 9.01 9.02	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm Electrically operated Sluice Valve PN 1.0 dia 125 mm 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 150 mm Electrically operated Sluice Valve PN 1.0 dia 200 mm	Nos Nos Nos Nos Nos Nos Nos Nos Nos Rate/HP Nos Nos Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120 125000 125000 125000	43120
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13 A.I - 13.01 A.I - 13.02 9.00 9.01 9.02 A.I - 14	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm Electrically operated Sluice Valve PN 1.0 dia 125 mm 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	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120 125000 125000 125000 125000 150000	238800 43120 125000 150000
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13 A.I - 13.01 A.I - 13.02 9.00 9.01 9.02 A.I - 14 A.I - 14.01	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm Electrically operated Sluice Valve PN 1.0 dia 125 mm 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:- Check Valve PN 1.0 DPCV dia 80 mm	Nos	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120 125000 125000 125000 125000 150000	43120
7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 8.00 A.I - 13 A.I - 13.01 A.I - 13.02 9.00 9.01 9.02 A.I - 14	15 HP 17.5 HP 20 HP 25 HP 30 HP 35 HP 40 HP Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. Pressure Transmitter Electrically operated Sluice Valve:- Electrically operated Sluice Valve PN 1.0 dia 80 mm Electrically operated Sluice Valve PN 1.0 dia 125 mm 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	1.00	252100 276504.56 295500 334043.48 366163.04 393723.7 426547.83 30467 43120 125000 125000 125000 125000 150000	43120



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BOQ Item No.	Description	Unit	Qoʻ	Rate	Amount
A.I - 15	Dismantling Joint :-		***************************************	1	
A.I - 15.02	Dismantling Joint PN 1.0 dia 80 mm	Nos		3923.92	
A.I - 15.01	Dismantling Joint PN 1.0 dia 125 mm	Nos	130	5605.6	300 00000
9.06	Dismantling Joint PN 1.0 dia 100 mm	Nos	THE RESERVE TO STREET, STREET, ST. SEC.	3923.92	NA
9.07	Dismantling Joint PN 1.0 dia 150 mm	Nos	2.00	5605.6	11211
9.08	Dismantling Joint PN 1.0 dia 200 mm	Nos	1.00	7367.36	7367
9.09	SITC of Chain Pulley Blocks				
9.10	1 Tonne	Nos	1.00	46305	46305
9.11	2 Tonne	Nos		58432.5	
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		127777.78	
12.05	I5 KVA	Nos	A-10-00-00-00-00-00-00-00-00-00-00-00-00-	166111.11	
12.06	20 KVA	Nos	* 62 - 5 Years 1911 (* 1914)	191666.67	
12.07	25 KVA	Nos		204444.44	akan periodikan periodikan kenangan berangan ber
12.08	30 KVA	Nos		230000	
12.09	40 KVA	Nos		281111.11	
12.10	50 KVA	Nos		319444.44	* *** ** ****** ** \$5.00 ***********************************
12.11	60 KVA	Nos	management and and	345000	a-a
13.00	Column Pipe:- SITC of Column pipe of MS pipe for connecting submersible pumps		agayu markatan a a a a a a a a a a a a a a a a a a	and the second second	and the second s
13.01	32 mm Dia size - MS pipe	Mtr.		500	21 P2750000 A004000000000000000000000000000000
13.02	40 mm dia size - MS pipe	Mtr.		666.67	AN 1000 CO. C.
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.		1400	
13.06	100 mm Dia size - MS pipe	Mtr.	30.00	1567	47010
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 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 for400 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	





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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 for400 KLD/ 500 LPM	LS		13125000	
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	18.00	86800	156240
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	80128
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	5200
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	1900
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.	227.40	1070.5	24343
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	45.48	2800	12734
26.00	Construction of WBM:- Construction of WBM by providing grade materials, spreading in uniform layers including watering and compaction complete.	Cum	56.85	3029	17219





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 earriage 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.	Rınt	130,00	1607.14	2089:
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		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	1.00	404000	4040
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	146
32.00	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 carthquake 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 32.02	50 KL 10 M Staging 50 KL 12 M Staging 75 KL 10 M Staging	Job Job Job		1712500.00 1788750.00 2150000.00	6 , -45 (1994 1994
32.03					



BOQ Item No.	Description	Unit	$Q_{\mathfrak{O}'}$	Rate	Amount
32.05	100 KL 12 M Staging	Job		2886250.00	
32.06	100 KL 16 M Staging	Job	accinomic windows	3073750.00	
32.07	150 KL 12 M Staging	Job	1.00	3241250.00	3241250
32.08	150 KL 16 M Staging	Job		3457500.00	
32.09	175 KIL12 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	was a sure of the state of the
32.13	200 KL 18 M Staging	Job		4105000.00	
32.14	225 KL 12 M Staging	Job		4170000.00	4 (200) (144000)((1440000)141000011110000
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	4.41.40.000.4.44444
32.18	350 KL 14 M Staging	Job		6093750.00	J 16.6.4.6.000 - 16.6.000 - 1.0.000
32.19	400 KL 14 M Staging	Job		6830000.00	vi denema contrativo altri
32.20	400 KL 16 M Staging	Job		7021250.00	
32.21	500 KL 14 M Staging	Job		7457500.00	· programma i mai transcrimina
32.22	25 K1 10 M Staging	Job		1296250.00	mintermanian and Alder Alder.
32.23	25 KI 12 M Staging	Job		1363750.00	
32.24	For 2 m Staging (5% additional per Meter)	Rm	1.00	162062.50	16206
33.00	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	3376.63	214.61	724660
35.00	Mixed Soil with Kankar	Cum	3376.63	249.27	841694
36.00	Soft Rock	Cum		943.82	erosourer son Waleston
37.00	Hard Rock	Cum	SULFA MARINER CONSIDERATION OF SECURITY OF	1319.18	5-2-W-8-W-9-
Additional	Disposal of Surplus Earth top 300 mm ht.	Cum			Annia (Annia (An
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	9.10	1656.00	1506
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	



ROQ Item No.	Description	Unit	Qŋ [,]	Rate	Amount
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-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)		control control (MAN)		
40.01	300 mm dia Ductile Iron K-9	m		3877.6	
40.02	250 mm dia Ductile Iron K-9	m		3103.5	
40.03	200 mm dia Ductile Iron K-9	m	Auril (2000) M. Auril (2000)	2332.32	Symptomic conjugacy (Saddle) addition
40.04	150 mm dia Ductile Iron K-9	m	35.00	1728.48	6049
40.05	125 mm dia Ductile Iron K-9	m		1411.41	
40.06	100 mm dia Ductile Iron K-9	m		1191.41	
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	- ALUXUS AND SERVICE CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
40.09	250 mm dia Ductile Iron K-7	m		2564.5	C
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	125 mm dia Ductile Iron K-7	m		1301.41	mornocomolica de es
40.13	100 mm dia Ductile Iron K-7	m		1007.11	. *
40.14	80 mm dia Ductile Iron K-7	m		909.49	
41	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 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.				
41.01	90 mm dia HDPE Pipe PN6, PE 100	m	1757.00	229.5	40323
41.02	75 mm dia HDPE Pipe PN6, PE 100	m	831.00	169.2	14060
41.03	63 mm dia HDPE Pipe PN6, PE 100 Valves:- Supply and carting up to site of work of the following dia DI butterfly	<u>m</u>	4336.00	125.8	54546
42.00	/sluice valves, class I, working pressure 10 Kg/cm2 confirming to IS: 780/1969 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 of jointing materials etc. complete .including all taxes and insurance, as per instructions of Engineer -in -charge.				
	Isolating Sluice Valve		2011/Julius 1900 (2010)		1000000 BBSS 100000
42.01	Sluice valve - 300 mm dia	Nos		64042.00	
42.02	Sluice valve - 250 mm dia	Nos		48109.00	
42.03	Sluice valve - 200 mm dia	Nos		27304.00	
42.04	Sluice valve - 150 mm dia	Nos	3.00	17626.00	5287
42.05	Sluice valve - 125 mm dia	Nos	1,00	14505.00	1450
	Sluice valve - 100 mm dia	Nos	4.00	14455.00	5782



BOQ Item No.	Description	Unit	$Q_{ij'}$	Rate	Amount
42.07	Sluice valve - 80 mm dia	Nos	1.00	12401.00	1240
42.07.1	Sluice valve - 65 mm dia	Nos.	2.00	10650.00	21300
42.07.2	Sluice valve - 50 mm dia	Nos.		9700.00	
	Scour Valve				
42.08	Scour valve - 80 mm dia	Nos	7.00	10160,84	71126
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				W. W
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 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.				
42.10		Nos	7.00	10229.21	71604
42.18	20 mm	Nos	7.00	23170.33	71004
42.19	50 mm 80 mm	Nos		23170.33	Accessory of the Salah May 152 and
42.20		Nos	2.2.200	41024.88	
42.21	150 mm	1005	personal resignating september (see East 2015), the 4% of	41024.00	z au. War er
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	4.00	24500.00	98000
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):-	202 507 507 507 507 507 507 507 507 507 507	And And		
43.01-43.02	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.	7.00	25800.00	180600
43.03	(L) x 1200 (W) x 1300 (H) mm Fire Hydrant chamber (800 (L) X 1250 (W) X 1000 (H) mm)	No.	4.00	5000.00 18500.00	74000
43.04		180.	7.00	10200,00	74000
43.05	Air Valve Chamber	No.	7.00	9000.00	63000
43.06	350 (L) x 350 (W) x 500 (H) mm	190.	7.00	9000.00	00000
43.07	Scour Valve Chamber	No.	8.00	29670.00	237360
43.08	dia upto 200 mm - 1000 (L) x 1200 (W) x 1300 (H) mm	District our condition of the second second second	0,00	28380.00	23/300
43.09	PRV Valve Chamber - 1000 (L) x 1200 (W) x 1300 (H) mm	No.		26360.00	
44.00	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 thick binding wire in position & necessary centering & shuttering including 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.				



BOQ Item No.	Description	Unit	$Q\eta$	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	2688
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	3515
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	970600
46.00	Recharge Mechanism:- Water recharge Mechanism within the water works campus	Sqm	16.00	52500.00	840000
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		32518.98	
48.03	2 HP	Nos		35843.14	
48.04	3 HP	Nos		46249.21	
48.05	5 HP	Nos		65037.95	- Andaman and an interpretation of
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	-0.000000000000000000000000000000000000	295500.00	
48.12	25 HP	Nos		334043.48	The second secon
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	water the second	426547.83	
48.16	Turbidity & Chlorine analyzer	Nos		273000.00	o alika Alama wa perezanta a
48.17	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 -in -charge.	Nos		126000.00	
48.18	3Mtr. Long Column Pipe		-62.55500000,0 trapped(55000000-00-0		·
48.19	32 mm Dîa size - MS pipe	Nos	e-mers segmental assessment	1500.00	17.18 th 17.18 th 18.18 th 18.
48.20	40 mm dia size - MS pipe	Nos	manda e-panaga-panaga-panaga-panaga-panaga-	2000.01	o operation to the contraction of
48.21	50 mm dia size - MS pipe	Nos		2763.00	
48.22	65 mm Dia size - MS pipe	Nos		3200.01	***************************************
48.23	80 mm Dia size - MS pipe	Nos	-mar - co c - co c - c - c - c - c	4200.00	
48.24	100 mm Dia size - MS pipe	Nos	CA. 9107 NO. 444-444-444-44	4701.00	Operation Commission of the Co
48.25	150 mm Dia size - MS pipe	Nos		6501.00	



BOQ Item No.	Description	Unit	Qŋ [,]	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 -incharge.	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.	eret i ar Millian i AMA (V. NAA) (V. N	400 A (400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 - 1894 -
50.01	B.O.E. Surface	Sqm	586.39	100.00	58639
50.02	Bituminous Surface	Sqin	1775.32	200.00	355065
50.03	Interlocking Road	Sqm	55.69	155.00	8632
50.04	C.C. Road	Sqm	498.08	329.96	16434
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.				
51.01	B.O.E. Surface (50% of existing bricks to be reused)	Sqm	586.39	350	205235
51.02	Bituminous surface	Sqm	1775.32	1534.82	2724803
51.03	Interlocking Road	Sqm	55.69	1070.5	59618
51.04	C.C. Road	Sqm	498.08	1560.71	777365
52.00	Nata/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
2.02-52.03	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 easing 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 easing pipe including excavation & filling of Pit, Dewatering arrangement, Supporting system for soil, also including supply and fixing of 2 no Sluice valve			н то сусту у да антивательня даванення выполня выполня на пределення выполня выполня выполня выполня выполня в	
	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.		Application of the control of the co		
52.04	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.	Nos		60000	
52.04 52.05	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	Nos Nos		60000 40000	



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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	Nos		1400	
52.08	100 mm dia. Pipe	Nos	Committee of the Commit	1700	
52.10	150 mm dia. Pipe	Nos		2000	
52.11	200 mm dia. Pipe	Nos		2400	
52.12	250 mm dia. Pipe	Nos		3600	
52.13	300 mm dia. Pipe	Nos		3900	Unamed Section Control
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	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.	322.00	3500	112700
54.00	Stand Post:- Construction of single tap pillar type stand post as per type design	Nos.	27.00	10000	27000
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			
55.01	Cost of DPR Preperation @ 1% of CAPEX Cost of DPR	%			
56.00	Electromagnetic flow meters				visco de Colonia de Co
56.01	150mm	Nos.	1.00	150000	15000
56.02	200mm	Nos.		190000	r
56.03	250mm	Nos.		225000	
56.04	300mm	Nos.		260000	
56.05	350mm	Nos.		330000	
56.06	400mm	Nos.	www.www.componing.com	420000	
56.07	450mm	Nos.		500000	
56.08	500mm	Nos.		550000	**2752040***************
A.1-56.09	100mm	Nos.		100000.00	4-486-20000insti -//Vincenson communication
A.I-56.10	80mm	Nos.		80000.00	
57.00	Soft Starter :-			A-10-1-10-10-10-10-10-10-10-10-10-10-10-1	10000000000000000000000000000000000000
57.01	soft starter with RS485 port -400V,7.5KW Rating	Nos		60000	
		Nos		70000	
57.02 57.03	soft starter with RS485 port -400V,15KW Rating soft starter with RS485 port -400V,22KW Rating	Nos		85000	



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BOQ Item No.	Description	Unit	Qn	Rate	Amount
57.05	soft starter with RS485 port -400V,45KW Rating	Nos		125000	
57.06	soft starter with RS485 port -400V,55KW Rating	Nos		140000	. 12.000
57.07	soft starter with RS485 port -400V,75KW Rating	Nos		150000	American A. American
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		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:-				
58.01	100 Amp rating	Nos		45000	
58.02	125 Amp rating	Nos		50000	
58.03	160 Amp rating	Nos		70000	100000000000000000000000000000000000000
58.04	200 Amp rating	Nos		120000	
58.05	250 Amp rating	Nos		135000	
58.06	315 Amp rating	Nos		140000	***************************************
58.07	400 Amp rating	Nos		150000	mund) y
58.08	500 Amp rating	Nos		190000	
58.09	630 Amp rating	Nos		225000	
59.00	Radar type Level transmitter	Nos	1.00	120000	12000
CO.OO	Control Panel:-	Nice	1.00	120000	12000
60.00	control panel for all power equipments with IP 54 protection	Nos	1.00	120000	120000
***************************************	Cabling for Tube Well:-			Today Francis	
61.00	complete cabling for tubewell inleuding all power and controlcables of	Nos	1.00	60000	6000
	all equipments at pumphouse and OHT				
	Master Control PLC:-				
62.00	Master control plc with CPU, SCADA software including GSM /	N1		2665000	
62.00	GPRS modem, necessray firewall, ethernet switch, CCTV system	Nos		2000000	
63.00	Installation testing and commissioning	Nos	1.00	60000	60000
Additional Items				.vo.es.v-16	
A.I - I	110 mm dia HDPE Pipe PN6, PE 100	m	1444.00	326.71	471769
A.I - 2	125 mm dia HDPE Pipe PN6, PE 100		608.00	414.95	252290
A.I - 2 A.I - 3	140 mm dia HDPE Pipe PN6, PE 100	m m	94.00	513.86	4830:
A.I - 4	160 mm dia HDPE Pipe PN6, PE 100	m	32.00	663.92	2124:
A.I - 5	180 mm dia HDPE Pipe PN6, PE 100		32.00	829.93	2124.
4.1 - 6	200 mm dia HDPE Pipe PN6, PE 100	m		1016.89	**Y***********************************
M.I - U	Supply Installation of Display board of Size 2M X 1 M for Providing	m		1010.67	
A.I - 7	details of proposal of water supply scheme	LS	1.00	25000	25000
A.I - 8	Provision for arboriculture for development of water works	LS	1.00	50000	50000
A.I - 9	Battery Backup with Accessories for 2 Kw Load	Nos	1.00	92800	30000
4.1 - 9	40 Watts Solar Street Lights inbuilt with all accessories	Nos	4.00	30000	120000
	SITC of DG for Electricity support	1405	4.00	30000	120000
A.I11	7.5 KVA	Nos		240000	31040-2200-200-200-200-200-
A.I - 11 -1 A.I - 11 -2	10 KVA	Nos			#1700 (Jan 1940 - Mary 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 194
	8	Nos		260000	
A.I - II -3	15 KVA	- 1/-Williams		306000	-400 6
A.I - 11 -4	20 KVA	Nos	1.00	370000	20000
A.I - 11 -5	25 KVA	Nos	1.00	389000	389000
۸.۱ - ۱۱ -6	30 KVA	Nos		405000	
\.1 - 11 -7	40 KVA	Nos	***************************************	483000	
\.I - II -8	45 KVA	Nos		495000	
\.l - 11 -9	S0 KVA	Nos		555000	20 h, 6 Galla (100 pp. 100 pp.
11-11-10	62.5 KVA	Nos		569000	**************************************
A.I - 12	Electromagnetic flow meters			·····	***************************************
4.1 - 12 - 1	100mm Electromagnetic flow meters	Nos.	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100000	activity and appropriate and account activity
1.1 - 12 - 2	80mm Electromagnetic flow meters	Nos.		80000	

Estimate for Nevada Gram Panchayat

Water Supply Scheme

Under - SWSM

Block-Gola District- Gorakhpur

Form "J" - Comprehensive Scheme

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	4	5	6	7
1	Cost of Work	-237:67		-237:87-	231.00	
2	0.14% Discount as per Contract on Cost of work	237,87	-0.14%	0.33	- 230.6	8
	Net Cost of Work			-237-54-	230.	68
3	Add Contingency 2%	-237.54 -	2.00%	-A-75	4.61	provided the second of the sec
to a service and the desired of	Sub Total (A)		235	29 -242.29	121.14	121.1
4	Add GST 12 %-B	-242.20-	12.00% 2	28,24 20.07	- 14.54	14.5
5	Add 12.5% Centage-C	-242.39-	12.50% 2	9.41 30-29	30.29	
AV100-10400-10-(1910-10)	Grand Total (A+B+C)		292	94 40 1.65	→ 165.97	135.6
6	Let O&M Cost (after DLP)	437-54		1429 475- 59-19	2.38	2.3

TOTAL POPULATION A (ULTIMATE YEAR 2052)	4310
Per Capita Cost	6296
(NET COST+CONTIGENCY+GST)	0290

PREPARED BY

100

(तंकनीकी प्रकोप्ट) राज्य पेयजल एवं स्वष्ठता मिशन CHECKED BY

M/SWCCLtd.

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Arrow)

J.E(T) Assistant Engineer

Alex 100

अधिशासी अधियन्ता दशम् खण्ड, उ०प्र० जल निगम गोरखपुर

Member Secretary DWSM

Executive Engineer,

U.P Jal Nigam, 10th Div. Gorakhpur

Forwarded As Recommended by DWSM For SLSSC

(इं० डी०के० सिंह) अधिक्षण अभियन्ता शाज्य पेयजल एवं स्थानता मिशन (इं० जी०पी० शुक्ला) युनिट कोआर्डिनेटर राज्य पेयजल एवं स्वजता मिशन

		AND WEST TA	The same and the s				
SL.	Sub Head	Total Cost of work	Building	R.C.C. Reservoir	Pipe Line	Machinery	Misc.
June	2	3.0	4.0	5.0	0.9	7.0	0.8
Ą.	Civil works:			Washington Commenced to the second of the se	den mand met melle die Gagelius aus gegener auf anderste dans das der einem von ausse	8) The first the state of the first that the first	
	Pump house & Chlorinating room	4,04,000	4,04,000		W 444 1990		
7	Rising Main	89,882		And the control of th	89,882	THE STATE OF A STATE OF THE PROPERTY OF THE STATE OF THE	
m	R.C.C. Over head tank (KL/m staging)	37,96,642	Peril della della collata dell	37,96,642	AND THE PROPERTY AND		
4	Distribution System	1,00,52,720		1,00,52,720	The Principles Metallication of the Control of the		
S	Approach Road [DO] 9 (6	-16,81,966	16,81,966			The state of the s	
9	Boundary Wall and approach raod	8,72,280	8,72,280		The state of the s		
1	Staff Quarter	009'02'6	9,70,600			e e vitini k	
00	Surveying and designing 2,31,07,	2,37,872			The confirmation of the co		2,37,872
	otal A)	196'50'18'1	39,28,846	1,38,49,362	89,882	ı	2,37,872
ra	E&M works:	9161921		And Taylor St. Communication of the Communication o		The commence of the part transmit of the part of the confidential part	indicates and control of the control
possed.	Cost of Tubewell construction	17,27,177		III - YV Va ali 400 s antinotarantinotas pranotarantinotarin	Children (Additional Additional Additional Commence of the Com	17,27,177	
7	Cost of pumping plant and Chlorinating Plant	12,47,632			November 2 Automotive file James American Control of Co	12,47,632	
m	Solar plant	15,62,400			A STATE OF THE STA	15,62,400	
4	Electrification of pump house, SCADA	11,44,000			Commence of the commence of the company of the comp	11,44,000	
	Total (B)	56,81,209	1	•		56,81,209	all 1998 the formulation of the second of th
	G. Total (A+B)	2,37,87,170	39,28,846	1,38,49,362	89,882	56.81.209	2.37.872

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2,31,00,369