

TENDER NOTICE

1. Background

Access to safe and reliable drinking water remains a critical challenge in several habitations of Harahua Block in Varanasi District, Uttar Pradesh. Although the Government of India, through the Jal Jeevan Mission (JJM), is expanding piped water supply, many marginalized settlements continue to face inadequate access to potable water due to limited household connections, inadequate storage infrastructure, and uneven water distribution.

Women, children, elderly people, and socially vulnerable households are disproportionately affected, often spending considerable time and effort collecting drinking water from distant or unreliable sources. During peak summer months and periods of high demand, the availability of safe drinking water becomes even more constrained.

To address this challenge, installation of **Ferrocement Tank Towers (Jal Minar)** connected with the existing water supply system and equipped with **community stand posts** is proposed. Ferrocement technology offers a durable, cost-effective, low-maintenance, and climate-resilient solution for decentralized drinking water storage and distribution.

Project Goal:

To improve equitable and sustainable access to safe drinking water for underserved communities in Harahua Block through the installation of Ferrocement Tank Towers (Jal Minar) with community stand posts.

Objectives

- Improve access to safe drinking water for underserved households.
- Reduce the distance and time spent collecting drinking water.
- Strengthen community-level drinking water infrastructure.
- Improve water security during supply interruptions and peak demand periods.
- Promote equitable access for women, children, elderly persons, and vulnerable communities.
- Support the objectives of Jal Jeevan Mission by strengthening last-mile service delivery.

Proposed Intervention

The project proposes installation of **Ferrocement Tank Towers (Jal Minar)** at strategic community locations connected to the existing drinking water supply network.

Each Jal Minar will include:

- Ferrocement elevated storage tank
- RCC/steel supporting tower (as per design)
- Inlet and outlet pipeline
- Community stand posts with multiple taps
- Drainage arrangement

- Platform for safe water collection
- Water quality signage
- Provision for future maintenance

The locations will be finalized in consultation with:

- Gram Panchayat
- Village Water & Sanitation Committee (VWSC)
- Gram Pradhan
- Community representatives

Stand post details:

Village/Habitation	No of Stand Post
Bhatpurwa Kala	1
Sulemapur	1
Mohanpur	1
Palahipatti Bazar	1
Palahipatti Prajapati Basti	1
Total Beneficiaries	5

Interested Bidders are required to submit their complete proposal along with all terms and conditions to Email id: WAIProcurementUP@wateraid.org by **22th September 2026 by 5:30 PM** which should necessarily include:

For any queries pertaining to the tender, please write to **me before 20th September 2026**
Profile of the organization, given as per the below –

1. Profile of Bidder

1. Name of Organization:
2. Registration Certificate:
3. GST Certificate
4. MSME Certificate (if registered)
5. 3 years Tax return File (attached)
6. Address for correspondence:
7. Office Phone:
8. Mobile Phones of corresponding officials:
9. Email for correspondence:
10. Locations of operations (Head office and Branch offices):
 - All certificates must be attached.

Terms and Conditions:

- Submit Quotations with subject line Items – **Quotation for Stand post - Varanasi** Without subject quotation will not consider for further process
- Proposals should be addressed to Jal Seva Charitable Foundation, 2/92, Vishal Khand Gomti Nagar Lucknow 226010
- The Proposal must be on the company letter head with date, signature and company seal. (It is to be signed by the authorized person).
- Proposals must be submitted to Procurement Email ID: WAIProcurementUP@wateraid.org Any proposal submitted to any other email id will not be considered.
- The Proposal to be submitted as two separate attachment – 1. Technical proposal as per the BOQ and 2- Financial proposal in non-editable PDF Format. (Organization Letter Head)
- The proposal must have the subject mentioning the village name given in the table below of point 12.
- **THE PROPOSAL MUST BE SUBMITTED AS A SEPARATE ATTACHMENT**
- **Kindly recommend the BOQ given.**
- Proposals received after due date will not be considered.
- **Financial proposals must be submitted on Organization letter head** inclusive of applicable taxes and mentioning the validity of the quoted rate.
- All terms and conditions must be clearly mentioned in the proposals.
- Incomplete proposals shall not be considered.
- **The work shall be completed on or before 22nd Sept 2026**
- **Payment shall be released based on the actual work completed and verified.**

2. Please provide details of two referees for the similar work done

Description	Referee 1	Referee 2
Name		
Designation		
Organization		
Description of assignment Undertaken		
Phone/ Mobile/ Email of referee		

WaterAid India, Varanasi U.P.			
Summary of stand post			
Sl.	Location for stand post	Unit	Quotation Rs
1	Bhatpurwa kala, Block Harhua, Dist. Varanasi U.P	1	
2	Sulemapur, Block Harhua, Dist. Varanasi U.P	1	
3	Mohanpr Near at Panchayat bhawan, Block Harhua, Dist. Varanasi U.P.	1	
4	Palahipatti Bazar Near at Primary School, Block Harhua, Dist. Varanasi U.P.	1	
5	Palahipatti prajapati basti, Block Harhua, Dist. Varanasi U.P.	1	
Total			
Add 18% GST			
Sub Total			

Regards:
Procurement Team

Detailed Estimation for Public Water Supply Scheme with RCC Staging Structure & Ferro Cement Tank at Near At Madina House Bhatpurwa kala, Block Harhua, Dist. Varanasi U.P.

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Unit	Rate	Amount
1	Earthwork in excavation in ordinary soil / clay mixed with moorum / silt etc. by manual or mechanical means (Hydraulic Excavator) up to 1.5 m depth, including dressing of sides, ramming of bottoms, dewatering (if required), lifting, loading and disposal within initial lead, complete as per direction of Engineer-in-Charge.	1	1.200	1.200	1.500	2.160	Cum		
2	Providing and laying in position Plain Cement concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size, including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii) Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								
	Below Footing	1	1.2	1.2	0.100	0.144	Cum		
						0.144	Cum		
6	Providing and laying Reinforced Cement Concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size,excluding shuttering and reinforcement. if any. including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii)Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								
	Footing	1	1.200	1.200	0.450	0.648	Cum		
	Column(350 X 350)	1	0.350	0.350	3.000	0.368	Cum		
	Beam(250 X 250)	1	8.000	0.250	0.250	0.500	Cum		
	Slab	1	2.000	2.000	0.150	0.600	Cum		
						2.116	Cum		

7	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.(a) For works in foundation, basement and upto roof MAKE: Steel-JSW/JSPL/TATA/SAIL/ISI Marked					0.114	MT		
		Total				0.114	MT		
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.								
	Column	1	1.400		3.700	5.180	Sqm		
	Beam	1	8.000	0.250	0.250	6.000	Sqm		
	Base slab soffit	1	2.000	2.000		4.000	Sqm		
		Total				15.180	Sqm		
9	Providing and laying brick masonry with 125mm thick using well-burnt bricks in cement mortar 1:4, including proper bonding, racking of joints, curing, and finishing complete as per drawing and direction of Engineer-in-Charge.								
	Parapet Wall	1	8.000	0.125	0.3	0.300	Cum		
		Total				0.300	Cum		
10	Providing & laying Plastering(wall, floor, ceiling etc) with cement mortar 1:4(1 cement : 4 sand) 12 mm thick including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface].i) Cement:Ultratech/Ambuja/ACC/ISI Marked (PPC 43/53 Grade), ii)Sand: Clean coarse river sand								
	Column	1	1.400		3.000	4.200	Sqm		
	Base slab soffit	1	2.000	2.000		4.000	Sqm		
	Parapet Wall	2	8.000		0.300	4.800	Sqm		
		Total				13.000	Sqm		

10	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade in Plaster area(Emulsion & Enamel Paint)-Asian paint code: 9209 (WaterAid colour)								
		Total				13.000	Sqm		
11	Structural steel work in built-up sections / ladder including cutting, hoisting, fixing, welding/bolting as required, and applying one coat of approved primer. Steel: Tata / SAIL / JSW, conforming to IS 2062. Primer: Red Oxide Zinc Chromate / approved make (Asian/Berger). (MS ladder 50×50×6mm = 8M + 12 x 0.50M=14m @ 4.502kg/m)								
		Total				63.028	Kg		

WaterAid India, Chandauli U.P.									
Name of work: Estimation for the arrangement of Stand Post at Bhatpurwa kaka near at Madina House, Block Harhua, Dist. Varanasi U.P.									
Solar Panel , Submersible pump & Sediment Filter									
Sr. No.	Description of items / Activities	No	L	B	D	Total Quantity	Unit	Unit Rate (INR)	Amount (INR)
A	Rate for Solar system								
1	Supply and Installation of Solar Panel (590 W) bifacial solar panel with each panel having atleast 40 Vmp and connector with cable incl. fittings-Waree,Adani,Tata(Non DCR)	3				3.0	Nos		
2	Supplying & fitting 4 mm2 Copper-DC service cable from Solar panel to Hybrid Controller	1	10			15.0	Meter		
3	Supply and Installation of durable, corrosion-resistant, and high-strength GI Solar structure for solar panels.	1				1.0	Nos		
B	Rate for Pump work								
1	1HP 3 Phase 80-120 Volt solar power pump with hybrid controller (ON GRID/OFFGRID) & Sensor (Kirloskar/Medini/Crompton brand) with all fittings, fixtures, tools, tackles, etc					1.0	Set		
2	1HP hybrid solar pump VFD controllers are advanced devices designed to run 1HP AC induction or BLDC motors using both solar (DC) and grid (AC) power					1.0	Set		

3	Supplying & fitting 1.5 mm ² copper triple core AC service cable from hybrid controller to pump					55.0	Meter		
4	Supplying & fitting 4 mm ² safety cable from ground level to solar pump					75.0	Mtr		
5	Providing and laying of 15mm dia heavy-duty PVC conduit pipe underground for cable protection, complete with all accessories, bends, and proper jointing.					20.0	Meter		
6	Supplying and installing suitable size stainless steel safety wire rope for submersible pump installation in existing bore well, to provide additional safety support to the pump set. The work includes proper tying, clamping, anchoring at top level and ensuring secure suspension of pump, complete as per site requirement					30.0	Meter		
7	Providing and installation of 1" HDPE pipe with nipple for submersible pump					30.0	Meter		
8	Providing and installing submersible pump in the existing bore well along with already installed hand pump without dismantling the hand pump. The work includes lowering of submersible pump, providing and laying column pipe, submersible cable, safety wire, necessary fittings and accessories, connection with power supply, testing and commissioning complete in all respects					1.0	Set		
9	Aquaguard Sediment Filter Select ASF 1500 Operating Input Voltage 100-240 V Water Flow Rate 1500 Max LPH	1				1.0	Nos		
10	Automatic water motor on/off system	1					Nos		
11	Providing & Fixing IEC (Information, Education, and Communication) Branding on ACP (Aluminium Composite Panel) signage with frame.								
	IEC board 1*1.2 m	1				1.2	Sqm		
12	Providing, supplying, installing, testing and commissioning of complete Lightning Arrester/Lightning Protection System for Solar PV array, including air terminal, mounting arrangement, down conductor, clamps, connectors and connection to dedicated 3 earth electrode, complete in all respects with 4 mm Copper wire testing and commissioning complete in all respects	1				1.0	Set		

Detailed Estimation for Public Water Supply Scheme with 2000L Ferrocement Tank construction Near At Madina					
Sl. No.	Description	Quantity	Unit	Rate	Amount
1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	25 mm dia nominal bore used for washout and overflow from PVC Tank Sediment Filter	9.00	P/M		
(ii)	25mm dia Pipe from Tube well to PVC Tank & Sediment Filter	21.00	P/M		
2	Providing and placing on terrace (at all floor levels) ferrocement water storage tank with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.(Calculated)				
2B	Providing and fixing GI extension & nipple for water tank pipe, fittings of approved quality and colour.				
	25mm dia	1	Nos.		
2C	Providing And Fixing Brass Long body Bib Cock 1"*3/4"	4	Nos.		
	Providing and fixing GI Tee & Elbow for Bib cock				
	25*20mm dia	4	Nos.		
2D	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	25mm dia Pipe	1	Nos.		
	Provide & Laying Plateform for standpost plateform Concrete	1	Nos.		

Detailed Estimation for Public Water Supply Scheme with RCC Staging Structure & Ferro Cement Tank at Mohanpr Near at Panchayat bhawan, Block Harhua, Dist. Varanasi U.P.

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Unit	Rate	Amount
1	Earthwork in excavation in ordinary soil / clay mixed with moorum / silt etc. by manual or mechanical means (Hydraulic Excavator) up to 1.5 m depth, including dressing of sides, ramming of bottoms, dewatering (if required), lifting, loading and disposal within initial lead, complete as per direction of Engineer-in-Charge.	4	0.950	0.950	1.000	3.610	Cum		
2	Earth work in filling in foundation trenches or plinth with good earth in layer not exceeding 1500 mm. including watering and ramming etc. layer by layer complete.a) With earth obtained from excavation of foundation for 1/5 of excavated earth					0.722	Cum		
3	Providing clean coarse sand filling in foundation trenches or in plinth including ramming & watering as per specification & direction of E/I including cost of materials taxes & royalty.								
	In Floor	1	2.700	2.700	0.300	2.187			
		Total				2.187	Cum		
4	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.								
	In Floor	1	2.700	2.700		7.290			
		Total				7.290	Sqm		
5	Providing and laying in position Plain Cement concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size, including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii) Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								

	Below Footing	4	0.95	0.95	0.100	0.361	Cum		
	In Floor	1	2.700	2.700	0.100	0.729	Cum		
						1.090	Cum		
6	Providing and laying Reinforced Cement Concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size,excluding shuttering and reinforcement. if any. including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii)Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								
	Footing	4	0.950	0.950	0.300	1.083	Cum		
	Column(250 X 250)	4	0.250	0.250	3.000	0.750	Cum		
	Beam(250 X 250)	2	10.800	0.250	0.250	1.350	Cum		
	Slab	1	2.700	2.700	0.150	1.094	Cum		
						4.277	Cum		
7	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.(a) For works in foundation, basement and upto roof MAKE: Steel-JSW/JSPL/TATA/SAIL/ISI Marked					0.362	MT		
		Total				0.362	MT		
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificalitons.								
	Column	4	1.000		3.700	14.800	Sqm		
	Beam	2	10.800	0.250	0.250	16.200	Sqm		
	Base slab soffit	1	2.700	2.700		7.290	Sqm		
		Total				38.290	Sqm		

9	Providing and laying brick masonry with 125mm thick using well-burnt bricks in cement mortar 1:4, including proper bonding, racking of joints, curing, and finishing complete as per drawing and direction of Engineer-in-Charge.								
	Tap Fixing Area	1	2.7	0.125	0.65	0.219	Cum		
	Parapet Wall	1	10.8	0.125	0.6	0.810	Cum		
		Total				1.029	Cum		
10	Providing & laying Plastering(wall, floor, ceiling etc) with cement mortar 1:4(1 cement : 4 sand) 12 mm thick including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface].i) Cement: Ultratech/Ambuja/ACC/ISI Marked (PPC 43/53 Grade), ii) Sand: Clean coarse river sand								
	Column	4	1.000		3.000	12.000	Sqm		
	Beam	2	10.800	0.250	0.250	16.200	Sqm		
	Base slab soffit	1	2.700	2.700		7.290	Sqm		
	Floor	1	2.700	2.700		7.290	Sqm		
	Tap Fixing Area	2	2.700		0.650	3.510	Sqm		
	Parapet Wall	2	10.800		0.600	12.960	Sqm		
		Total				59.250	Sqm		
10	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade in Plaster area(Emulsion & Enamel Paint)-Asian paint code: 9209 (WaterAid colour)								
		Total				51.960	Sqm		
11	Structural steel work in built-up sections / ladder including cutting, hoisting, fixing, welding/bolting as required, and applying one coat of approved primer. Steel: Tata / SAIL / JSW, conforming to IS 2062. Primer: Red Oxide Zinc Chromate / approved make (Asian/Berger). (MS ladder 50×50×6mm = 8M + 12 x 0.50M=14m @ 4.502kg/m)								
		Total				63.028	Kg		

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WaterAid India, Varanasi U.P.									
Name of work: Estimation for the arrangement of Stand Post at Mohanpr Near at Panchayat bhawan, Block Harhua, Dist. Varanasi									
Solar Panel , Submersible pump & Sediment Filter									
Sr. No.	Description of items / Activities	No	L	B	D	Total Quantity	Unit	Unit Rate (INR)	Amount (INR)
A	Rate for Solar system								
1	Supply and Installation of Solar Panel (590 W) bifacial solar panel with each panel having atleast 40 Vmp and connector with cable incl. fittings-Waree,Adani,Tata(Non DCR)	3				3.0	Nos		
2	Supplying & fitting 4 mm ² Copper-DC service cable from Solar panel to Hybrid Controller	1	10			15.0	Meter		
3	Supply and Installation of durable, corrosion-resistant, and high-strength GI Solar structure for solar panels.	1				1.0	Nos		
B	Rate for Pump work								
1	1HP 3 Phase 80-120 Volt solar power pump with hybrid controler (ON GRID/OFFGRID) & Sensor (Kilroskar/Medini/Crompton brand) with all fittings, fixtures, tools, tackles, etc					1.0	Set		
2	1HP hybrid solar pump VFD controllers are advanced devices designed to run 1HP AC induction or BLDC motors using both solar (DC) and grid (AC) power					1.0	Set		
3	Supplying & fitting 1.5 mm ² copper triple core AC service cable from hybrid controller to pump					55.0	Meter		
5	Supplying & fitting 4 mm ² safety cable from ground level to solar pump					75.0	Mtr		
6	Providing and laying of 15mm dia heavy-duty PVC conduit pipe underground for cable protection, complete with all accessories, bends, and proper jointing.					20.0	Meter		

7	Supplying and installing suitable size stainless steel safety wire rope for submersible pump installation in existing bore well, to provide additional safety support to the pump set. The work includes proper tying, clamping, anchoring at top level and ensuring secure suspension of pump, complete as per site requirement					30.0	Meter		
8	Providing and installation of 1" HDPE pipe with nipple for submersible pump					30.0	Meter		
9	Providing and installing submersible pump in the existing bore well along with already installed hand pump without dismantling the hand pump. The work includes lowering of submersible pump, providing and laying column pipe, submersible cable, safety wire, necessary fittings and accessories, connection with power supply, testing and commissioning complete in all respects					1.0	Set		
10	Aquaguard Sediment Filter Select ASF 1500 Operating Input Voltage 100-240 V Water Flow Rate 1500 Max LPH	1				1.0	Nos		
12	Automatic water motor on/off system	1					Nos		
13	Providing & Fixing IEC (Information, Education, and Communication) Branding on ACP (Aluminium Composite Panel) signage with frame.								
	IEC board 1*1.2 m	1				1.2	Sqm		
14	Providing, supplying, installing, testing and commissioning of complete Lightning Arrester/Lightning Protection System for Solar PV array, including air terminal, mounting arrangement, down conductor, clamps, connectors and connection to dedicated 3 earth electrode, complete in all respects with 4 mm Copper wire testing and commissioning complete in all respects	1				1.0	Set		

Detailed Estimation for Public Water Supply Scheme with 5000L Ferrocement Tank construction					
Sl. No.	Description	Quantity	Unit	Rate	Amount

1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	40 mm dia nominal bore from PVC tank to Distribution main	12.00	P/M		
(ii)	25 mm dia nominal bore used for washout and overflow from PVC Tank Sediment Filter	9.00	P/M		
(iii)	25mm dia Pipe from Tube well to PVC Tank & Sediment Filter	11.00	P/M		
2	Providing and placing on terrace (at all floor levels) ferrocement water storage tank with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.(Calculated)				
2B	Providing and fixing GI extension & nipple for water tank pipe, fittings of approved quality and colour.				
	25mm dia	1	Nos.		
2C	Providing And Fixing Brass Long body Bib Cock 1*3/4"	2	Nos.		
	Providing and fixing GI Tee & Elbow for Bib cock				
	25*20mm dia	2	Nos.		
2D	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	25mm dia Pipe	1	Nos.		

Detailed Estimation for Public Water Supply Scheme with Water supply Distribution System at Mohanpr Near at Panchayat bhawan,									
Water supply Distribution System									
Sr. No.	Description of items / Activities	No	L	B	D	Total Quantity	Unit	Unit Rate (INR)	Amount (INR)
1	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.								
	50mm Dia Pipe	1	339	0.3	1.1	111.9			
	Add 5% extra for fittings					5.6			

						117.5	Cum		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	1				111.590325	Cum		
3	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.								
	50mm Dia Pipe	1	339			339.0	Mtr		
4	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.								
	5% of the cost of HDPE Pipe								
5	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).								
	50mm dia Pipe	1	1			1.0	Nos		

Detailed Estimation for Public Water Supply Scheme with Water supply Distribution System at Mohanpr Near at Panchayat bhawan, Block Harhua, Dist. Varanasi

Estimate for the work - Standpost connection

S.No.	Description	No	L	B	D	Qty	Unit	Rate	Amount
1	Providing, supplying, laying and jointing MDPE pipe 25 mm dia (PE-80/PE-100,					6.00	Mtr		
2	Providing and fixing MDPE compression elbow (25 mm dia) of approved make					3.0	Nos.		
3	Supplying and fixing MDPE Female Threaded Adapter (FTA) 25 mm × ¾"					1.0	Nos.		
4	Supplying and fixing MDPE compression coupling (25 mm)					2.0	Nos.		
5	Supplying and fixing Brass / CP Bib Tap (15 mm) of approved quality					1.0	Nos.		
6	Supplying and fixing End cap / dummy plug (25 mm)					1.0	Nos.		
7	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in								
	6.00	0.30	0.60	1.08		1.08	Cum		
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of					1.06	Cum		
9	Providing and fixing P.P. Clamp service Saddle (Brass threaded)					1	Each		
10	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe					1	Each		

11	Stand Post Platform								
A	Earth work excavation for foundations and depositing on bank for all lifts and with								
i	Platform	1	1	1	0.15	0.15	Cum		
ii	Soakpit	1	1	1	0.60	0.6	Cum		
B	Plain Cement bed Concreteing work including cost of all materials conveyance								
i	For stand post platform	1	0.8	0.8	0.23	0.1472	Cum		
ii	For kerb Portion	4	0.8	0.15	0.15	0.072	Cum		
iii	For Support pipeline for Stand Post	1	0.09	0.09	0.90	0.007	Cum		
C	Plastering with CM (1:5), 12 mm thick including cost and conveyance of all other								
i	For Platform	1	0.6		0.6	0.36	Sqm		
ii	For Kerb wall	4	0.8		0.3	0.96	Sqm		
iii	For Top of the kerb Portion	4	0.8		0.15	0.48	Sqm		
12	Painting Walls with Snowcem or other equal and approved Water Proof Cement					1.80	Sqm		
13	Soakpit								
i	Providing and laying honeycomb brick masonry considering 25% Voids using well-	1	1.1	1	1.1	0.136	Cum		
ii	Providing & Laying 100mm Precast slab for soakpit					1.00	Nos.		
iii	Providing and Fixing Nhani Trap with 75mm Pipe including all fittings (Brand-					1.00	Nos.		
	Total								
	Say								
	FOR 5NOS OF STANDPOST CONNECTIONS					4	Nos.		

Detailed Estimation for Public Water Supply Scheme with RCC Staging Structure & Ferro Cement Tank at Palahipatti Bazar Near at Primary School, Block Harhua, Dist. Varanasi U.P.

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Unit	Rate	Amount
1	Earthwork in excavation in ordinary soil / clay mixed with moorum / silt etc. by manual or mechanical means (Hydraulic Excavator) up to 1.5 m depth, including dressing of sides, ramming of bottoms, dewatering (if required), lifting, loading and disposal within initial lead, complete as per direction of Engineer-in-Charge.	4	0.950	0.950	1.000	3.610	Cum		
2	Earth work in filling in foundation trenches or plinth with good earth in layer not exceeding 1500 mm. including watering and ramming etc. layer by layer complete.a) With earth obtained from excavation of foundation for 1/5 of excavated earth					0.722	Cum		
3	Providing clean coarse sand filling in foundation trenches or in plinth including ramming & watering as per specification & direction of E/I including cost of materials taxes & royalty.								
	In Floor	1	2.700	2.700	0.300	2.187			
		Total				2.187	Cum		
4	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.								
	In Floor	1	2.700	2.700		7.290			
		Total				7.290	Sqm		
5	Providing and laying in position Plain Cement concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size, including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii) Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								
	Below Footing	4	0.95	0.95	0.100	0.361	Cum		
	In Floor	1	2.700	2.700	0.100	0.729	Cum		
						1.090	Cum		

6	Providing and laying Reinforced Cement Concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size, excluding shuttering and reinforcement. if any. including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge. as per relevant IS codes i) Pakur Variety, ii) Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii) Sand: clean coarse river sand								
	Footing	4	0.950	0.950	0.300	1.083	Cum		
	Column(250 X 250)	4	0.250	0.250	3.000	0.750	Cum		
	Beam(250 X 250)	2	10.800	0.250	0.250	1.350	Cum		
	Slab	1	2.700	2.700	0.150	1.094	Cum		
						4.277	Cum		
7	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.(a) For works in foundation, basement and upto roof MAKE: Steel-JSW/JSPL/TATA/SAIL/ISI Marked					0.362	MT		
		Total				0.362	MT		
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.								
	Column	4	1.000		3.700	14.800	Sqm		
	Beam	2	10.800	0.250	0.250	16.200	Sqm		
	Base slab soffit	1	2.700	2.700		7.290	Sqm		
		Total				38.290	Sqm		
9	Providing and laying brick masonry with 125mm thick using well-burnt bricks in cement mortar 1:4, including proper bonding, racking of joints, curing, and finishing complete as per drawing and direction of Engineer-in-Charge.								
	Tap Fixing Area	1	2.7	0.125	0.65	0.219	Cum		
	Parapet Wall	1	10.8	0.125	0.6	0.810	Cum		
		Total				1.029	Cum		

10	Providing & laying Plastering(wall, floor, ceiling etc) with cement mortar 1:4(1 cement : 4 sand) 12 mm thick including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface].i) Cement:Ultratech/Ambuja/ACC/ISI Marked (PPC 43/53 Grade), ii)Sand: Clean coarse river sand								
	Column	4	1.000		3.000	12.000	Sqm		
	Beam	2	10.800	0.250	0.250	16.200	Sqm		
	Base slab soffit	1	2.700	2.700		7.290	Sqm		
	Floor	1	2.700	2.700		7.290	Sqm		
	Tap Fixing Area	2	2.700		0.650	3.510	Sqm		
	Parapet Wall	2	10.800		0.600	12.960	Sqm		
		Total				59.250	Sqm		
10	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade in Plaster area(Emulsion & Enamel Paint)-Asian paint code: 9209 (WaterAid colour)								
		Total				51.960	Sqm		
11	Structural steel work in built-up sections / ladder including cutting, hoisting, fixing, welding/bolting as required, and applying one coat of approved primer. Steel: Tata / SAIL / JSW, conforming to IS 2062. Primer: Red Oxide Zinc Chromate / approved make (Asian/Berger). (MS ladder 50×50×6mm = 8M + 12 x 0.50M=14m @ 4.502kg/m)								
		Total				63.028	Kg		

#REF!									
Name of work: Estimation for the arrangement of Stand Post at Palahipatti Bazar Near at Primary School, Block Harhua, Dist. Varanasi U.P.									
Solar Panel , Submersible pump & Sediment Filter									
Sr. No.	Description of items / Activities	No	L	B	D	Total Quantity	Unit	Unit Rate (INR)	Amount (INR)
A	Rate for Solar system								
1	Supply and Installation of Solar Panel (590 W) bifacial solar panel with each panel having atleast 40 Vmp and connector with cable incl. fittings-Waree,Adani,Tata(Non DCR)	3				3.0	Nos		

2	Supplying & fitting 4 mm ² Copper-DC service cable from Solar panel to Hybrid Controller	1	10			15.0	Meter		
3	Supply and Installation of durable, corrosion-resistant, and high-strength GI Solar structure for solar panels.	1				1.0	Nos		
B	Rate for Pump work								
1	1HP 3 Phase 80-120 Volt solar power pump with hybrid controler (ON GRID/OFFGRID) & Sensor (Kirloskar/Medini/Crompton brand) with all fittings, fixtures, tools, tackles, etc					1.0	Set		
2	1HP hybrid solar pump VFD controllers are advanced devices designed to run 1HP AC induction or BLDC motors using both solar (DC) and grid (AC) power					1.0	Set		
3	Supplying & fitting 1.5 mm ² copper triple core AC service cable from hybrid controller to pump					55.0	Meter		
5	Supplying & fitting 4 mm ² safety cable from ground level to solar pump					75.0	Mtr		
6	Providing and laying of 15mm dia heavy-duty PVC conduit pipe underground for cable protection, complete with all accessories, bends, and proper jointing.					20.0	Meter		
7	Supplying and installing suitable size stainless steel safety wire rope for submersible pump installation in existing bore well, to provide additional safety support to the pump set. The work includes proper tying, clamping, anchoring at top level and ensuring secure suspension of pump, complete as per site requirement					30.0	Meter		
8	Providing and installation of 1" HDPE pipe with nipple for submersible pump					30.0	Meter		
9	Providing and installing submersible pump in the existing bore well along with already installed hand pump without dismantling the hand pump. The work includes lowering of submersible pump, providing and laying column pipe, submersible cable, safety wire, necessary fittings and accessories, connection with power supply, testing and commissioning complete in all respects					1.0	Set		
10	Aquaguard Sediment Filter Select ASF 1500 Operating Input Voltage 100-240 V Water Flow Rate 1500 Max LPH	1				1.0	Nos		
12	Automatic water motor on/off system	1					Nos		
13	Providing & Fixing IEC (Information, Education, and Communication) Branding on ACP (Aluminium Composite Panel) signage with frame.								
	IEC board 1*1.2 m	1				1.2	Sqm		

14	Providing, supplying, installing, testing and commissioning of complete Lightning Arrester/Lightning Protection System for Solar PV array, including air terminal, mounting arrangement, down conductor, clamps, connectors and connection to dedicated 3 earth electrode, complete in all respects with 4 mm Copper wire testing and commissioning complete in all respects	1			1.0	Set		

Detailed Estimation for Public Water Supply Scheme with 5000L Ferrocement Tank construction at at					
Sl. No.	Description	Quantity	Unit	Rate	Amount
1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	40 mm dia nominal bore from PVC tank to Distribution main	12.00	P/M		
(ii)	25 mm dia nominal bore used for washout and overflow from PVC Tank Sediment Filter	9.00	P/M		
(iii)	25mm dia Pipe from Tube well to PVC Tank & Sediment Filter	11.00	P/M		
2	Providing and placing on terrace (at all floor levels) ferrocement water storage tank with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.(Calculated)				
2B	Providing and fixing GI extension & nipple for water tank pipe, fittings of approved quality and colour.				
	25mm dia	1	Nos.		
2C	Providing And Fixing Brass Long body Bib Cock 1"3/4"	2	Nos.		
	Providing and fixing GI Tee & Elbow for Bib cock				
	25*20mm dia	2	Nos.		
2D	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	25mm dia Pipe	1	Nos.		

Detailed Estimation for Public Water Supply Scheme with Water supply Distribution System at Palahipatti Bazar Near at Primary School, Block									
Water supply Distribution System									
Sr. No.	Description of items / Activities	No	L	B	D	Total Quantity	Unit	Unit Rate (INR)	Amount (INR)

1	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.								
	50mm Dia Pipe	1	195	0.3	1.1	64.4			
	Add 5% extra for fittings					3.2			
						67.6	Cum		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	1				64.189125	Cum		
3	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm2 and 10 Kg/cm2 suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.								
	50mm Dia Pipe	1	195			195.0	Mtr		
4	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.								
	5% of the cost of HDPE Pipe								
5	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).								
	50mm dia Pipe	1	1			1.0	Nos		

Detailed Estimation for Public Water Supply Scheme with Water supply Distribution System at Palahipatti Bazar Near at Primary School, Block Harhua, Dist. Varanasi U.P.										
Estimate for the work - Standpost connection										
S.No.	Description	No	L	B	D	Qty	Unit	Rate	Amount	
1	Providing, supplying, laying and jointing MDPE pipe 25 mm dia (PE-80/PE-100, PN-12.5)					6.00	Mtr			
2	Providing and fixing MDPE compression elbow (25 mm dia) of approved make including all					3.0	Nos.			
3	Supplying and fixing MDPE Female Threaded Adapter (FTA) 25 mm × ¾"					1.0	Nos.			
4	Supplying and fixing MDPE compression coupling (25 mm)					2.0	Nos.			
5	Supplying and fixing Brass / CP Bib Tap (15 mm) of approved quality					1.0	Nos.			
6	Supplying and fixing End cap / dummy plug (25 mm)					1.0	Nos.			
7	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10									
	6.00	0.30	0.60	1.08		1.08	Cum			
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc.					1.06	Cum			

9	Providing and fixing P.P. Clamp service Saddle (Brass threaded)					1	Each		
10	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe					1	Each		
11	Stand Post Platform								
A	Earth work excavation for foundations and depositing on bank for all lifts and with an initial								
i	Platform	1	1	1	0.15	0.15	Cum		
ii	Soakpit	1	1	1	0.60	0.6	Cum		
B	Plain Cement bed Concreteing work including cost of all materials conveyance charges								
i	For stand post platform	1	0.8	0.8	0.23	0.1472	Cum		
ii	For kerb Portion	4	0.8	0.15	0.15	0.072	Cum		
iii	For Support pipeline for Stand Post	1	0.09	0.09	0.90	0.007	Cum		
C	Plastering with CM (1:5), 12 mm thick including cost and conveyance of all other materials								
i	For Platform	1	0.6		0.6	0.36	Sqm		
ii	For Kerb wall	4	0.8		0.3	0.96	Sqm		
iii	For Top of the kerb Portion	4	0.8		0.15	0.48	Sqm		
12	Painting Walls with Snowcem or other equal and approved Water Proof Cement Paint over					1.80	Sqm		
13	Soakpit								
i	Providing and laying honeycomb brick masonry considering 25% Voids using well-burnt bricks	1	1.1	1	1.1	0.136	Cum		
ii	Providing & Laying 100mm Precast slab for soakpit					1.00	Nos.		
iii	Providing and Fixing Nhani Trap with 75mm Pipe including all fittings (Brand-Finolex,					1.00	Nos.		
	Total								
	Say								
	FOR 5NOS OF STANDPOST CONNECTIONS					5	Nos.		

**Detailed Estimation for Public Water Supply Scheme with RCC Staging Structure & Ferro Cement Tank at Palahipatti prajapati basti, Block Harhua,
Dist. Varanasi U.P.**

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Unit	Rate	Amount
1	Earthwork in excavation in ordinary soil / clay mixed with moorum / silt etc. by manual or mechanical means (Hydraulic Excavator) up to 1.5 m depth, including dressing of sides, ramming of bottoms, dewatering (if required), lifting, loading and disposal within initial lead, complete as per direction of Engineer-in-Charge.	4	0.950	0.950	1.000	3.610	Cum		
2	Earth work in filling in foundation trenches or plinth with good earth in layer not exceeding 1500 mm. including watering and ramming etc. layer by layer complete.a) With earth obtained from excavation of foundation for 1/5 of excavated earth					0.722	Cum		
3	Providing clean coarse sand filling in foundation trenches or in plinth including ramming & watering as per specification & direction of E/I including cost of materials taxes & royalty.								
	In Floor	1	2.700	2.700	0.300	2.187			
		Total				2.187	Cum		
4	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.								
	In Floor	1	2.700	2.700		7.290			
		Total				7.290	Sqm		
5	Providing and laying in position Plain Cement concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size, including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii) Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								
	Below Footing	4	0.95	0.95	0.100	0.361	Cum		
	In Floor	1	2.700	2.700	0.100	0.729	Cum		
						1.090	Cum		

6	Providing and laying Reinforced Cement Concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size, excluding shuttering and reinforcement. if any. including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge. as per relevant IS codes i) Pakur Variety, ii) Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii) Sand: clean coarse river sand								
	Footing	4	0.950	0.950	0.300	1.083	Cum		
	Column(250 X 250)	4	0.250	0.250	3.000	0.750	Cum		
	Beam(250 X 250)	2	10.800	0.250	0.250	1.350	Cum		
	Slab	1	2.700	2.700	0.150	1.094	Cum		
						4.277	Cum		
7	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. (a) For works in foundation, basement and upto roof MAKE: Steel-JSW/JSPL/TATA/SAIL/ISI Marked					0.362	MT		
		Total				0.362	MT		
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.								
	Column	4	1.000		3.700	14.800	Sqm		
	Beam	2	10.800	0.250	0.250	16.200	Sqm		
	Base slab soffit	1	2.700	2.700		7.290	Sqm		
		Total				38.290	Sqm		
9	Providing and laying brick masonry with 125mm thick using well-burnt bricks in cement mortar 1:4, including proper bonding, racking of joints, curing, and finishing complete as per drawing and direction of Engineer-in-Charge.								
	Tap Fixing Area	1	2.7	0.125	0.65	0.219	Cum		
	Parapet Wall	1	10.8	0.125	0.6	0.810	Cum		
		Total				1.029	Cum		

B	Rate for Pump work								
1	1HP 3 Phase 80-120 Volt solar power pump with hybrid controller (ON GRID/OFFGRID) & Sensor (Kirlskar/Medini/Crompton brand) with all fittings, fixtures, tools, tackles, etc					1.0	Set		
2	1HP hybrid solar pump VFD controllers are advanced devices designed to run 1HP AC induction or BLDC motors using both solar (DC) and grid (AC) power					1.0	Set		
3	Supplying & fitting 1.5 mm ² copper triple core AC service cable from hybrid controller to pump					55.0	Meter		
5	Supplying & fitting 4 mm ² safety cable from ground level to solar pump					75.0	Mtr		
6	Providing and laying of 15mm dia heavy-duty PVC conduit pipe underground for cable protection, complete with all accessories, bends, and proper jointing.					20.0	Meter		
7	Supplying and installing suitable size stainless steel safety wire rope for submersible pump installation in existing bore well, to provide additional safety support to the pump set. The work includes proper tying, clamping, anchoring at top level and ensuring secure suspension of pump, complete as per site requirement					30.0	Meter		
8	Providing and installation of 1" HDPE pipe with nipple for submersible pump					30.0	Meter		
9	Providing and installing submersible pump in the existing bore well along with already installed hand pump without dismantling the hand pump. The work includes lowering of submersible pump, providing and laying column pipe, submersible cable, safety wire, necessary fittings and accessories, connection with power supply, testing and commissioning complete in all respects					1.0	Set		
10	Aquaguard Sediment Filter Select ASF 1500 Operating Input Voltage 100-240 V Water Flow Rate 1500 Max LPH	1				1.0	Nos		
12	Automatic water motor on/off system	1					Nos		
13	Providing & Fixing IEC (Information, Education, and Communication) Branding on ACP (Aluminium Composite Panel) signage with frame.								
	IEC board 1*1.2 m	1				1.2	Sqm		

14	Providing, supplying, installing, testing and commissioning of complete Lightning Arrester/Lightning Protection System for Solar PV array, including air terminal, mounting arrangement, down conductor, clamps, connectors and connection to dedicated 3 earth electrode, complete in all respects with 4 mm Copper wire testing and commissioning complete in all respects	1			1.0	Set		

Detailed Estimation for Public Water Supply Scheme with 5000L Ferrocement Tank construction at at					
Sl. No.	Description	Quantity	Unit	Rate	Amount
1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	40 mm dia nominal bore from PVC tank to Distribution main	12.00	P/M		
(ii)	25 mm dia nominal bore used for washout and overflow from PVC Tank Sediment Filter	9.00	P/M		
(iii)	25mm dia Pipe from Tube well to PVC Tank & Sediment Filter	11.00	P/M		
2	Providing and placing on terrace (at all floor levels) ferrocement water storage tank with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.(Calculated)				
2B	Providing and fixing GI extension & nipple for water tank pipe, fittings of approved quality and colour.				
	25mm dia	1	Nos.		
2C	Providing And Fixing Brass Long body Bib Cock 1*3/4"	2	Nos.		
	Providing and fixing GI Tee & Elbow for Bib cock				
	25*20mm dia	2	Nos.		
2D	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	25mm dia Pipe	1	Nos.		
					0

Detailed Estimation for Public Water Supply Scheme with Water supply Distribution System at Palahipatti Praapati basti, Block Harhua, Dist. Varanasi									
Water supply Distribution System									
Sr. No.	Description of items / Activities	No	L	B	D	Total Quantity	Unit	Unit Rate (INR)	Amount (INR)
1	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.								
	50mm Dia Pipe	1	237	0.3	1.1	78.2			
	Add 5% extra for fittings					3.9			

						82.1	Cum		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	1				78.014475	Cum		
3	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.								
	50mm Dia Pipe	1	237			237.0	Mtr		
4	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.								
	5% of the cost of HDPE Pipe								
5	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).								
	50mm dia Pipe	1	1			1.0	Nos		

Detailed Estimation for Public Water Supply Scheme with Water supply Distribution System at Palahipatti Prajapatibasti, Block Harhua, Dist. Varanasi U.P.										
Estimate for the work - Standpost connection										
S.No.	Description	No	L	B	D	Qty	Unit	Rate	Amount	
1	Providing, supplying, laying and jointing MDPE pipe 25 mm dia (PE-80/PE-100, PN-12.5) including					6.00	Mtr			
2	Providing and fixing MDPE compression elbow (25 mm dia) of approved make including all jointing					3.0	Nos.			
3	Supplying and fixing MDPE Female Threaded Adapter (FTA) 25 mm × ¾"					1.0	Nos.			
4	Supplying and fixing MDPE compression coupling (25 mm)					2.0	Nos.			
5	Supplying and fixing Brass / CP Bib Tap (15 mm) of approved quality					1.0	Nos.			
6	Supplying and fixing End cap / dummy plug (25 mm)					1.0	Nos.			
7	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on									
	6.00		0.30	0.60	1.08					
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in					1.06	Cum			
9	Providing and fixing P.P. Clamp service Saddle (Brass threaded)					1	Each			
10	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe					1	Each			
11	Stand Post Platform									
A	Earth work excavation for foundations and depositing on bank for all lifts and with an initial lead of									
i	Platform	1	1	1	0.15	0.15	Cum			
ii	Soakpit	1	1	1	0.60	0.6	Cum			
B	Plain Cement bed Concreteing work including cost of all materials conveyance charges (1:4:8).									
i	For stand post platform	1	0.8	0.8	0.23	0.1472	Cum			
ii	For kerb Portion	4	0.8	0.15	0.15	0.072	Cum			

iii	For Support pipeline for Stand Post	1	0.09	0.09	0.90	0.007	Cum		
C	Plastering with CM (1:5), 12 mm thick including cost and conveyance of all other materials and all								
i	For Platform	1	0.6		0.6	0.36	Sqm		
ii	For Kerb wall	4	0.8		0.3	0.96	Sqm		
iii	For Top of the kerb Portion	4	0.8		0.15	0.48	Sqm		
12	Painting Walls with Snowcem or other equal and approved Water Proof Cement Paint over Priming					1.80	Sqm		
13	Soakpit								
i	Providing and laying honeycomb brick masonry considering 25% Voids using well-burnt bricks in	1	1.1	1	1.1	0.136	Cum		
ii	Providing & Laying 100mm Precast slab for soakpit					1.00	Nos.		
iii	Providing and Fixing Nhani Trap with 75mm Pipe including all fittings (Brand-Finolex, Supreme,					1.00	Nos.		
	Total								
	Say								
	FOR 5NOS OF STANDPOST CONNECTIONS					3	Nos.		

Detailed Estimation for Public Water Supply Scheme with RCC Staging Structure & Ferro Cement Tank at Near At Babi House Sulemapur, Block Harhua, Dist. Varanasi U.P.

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Unit	Rate	Amount
1	Earthwork in excavation in ordinary soil / clay mixed with moorum / silt etc. by manual or mechanical means (Hydraulic Excavator) up to 1.5 m depth, including dressing of sides, ramming of bottoms, dewatering (if required), lifting, loading and disposal within initial lead, complete as per direction of Engineer-in-Charge.	1	1.200	1.200	1.500	2.160	Cum		
2	Providing and laying in position Plain Cement concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size, including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii) Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								
	Below Footing	1	1.2	1.2	0.100	0.144	Cum		
						0.144	Cum		
6	Providing and laying Reinforced Cement Concrete (Mix 1:2:3) with graded stone chips (20 mm nominal size) of approved quality and size,excluding shuttering and reinforcement. if any. including mixing, placing, compacting, finishing and curing complete as per drawing and direction of Engineer-in-Charge.as per relevant IS codes i) Pakur Variety, ii)Ultratech/Ambuja/ACC (PPC 43/53 Grade), iii)Sand: clean coarse river sand								
	Footing	1	1.200	1.200	0.450	0.648	Cum		
	Column(350 X 350)	1	0.350	0.350	3.000	0.368	Cum		
	Beam(250 X 250)	1	8.000	0.250	0.250	0.500	Cum		
	Slab	1	2.000	2.000	0.150	0.600	Cum		
						2.116	Cum		
7	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.(a) For works in foundation, basement and upto roof MAKE: Steel-JSW/JSPL/TATA/SAIL/ISI Marked					0.114	MT		
			Total			0.114	MT		

[illegible]

WaterAid India, Chandauli U.P.

Name of work: Estimation for the arrangement of Stand Post at Sulemapur near at Bebi House, Block

Solar Panel , Submersible pump & Sediment Filter

Sr. No.	Description of items / Activities	No	L	B	D	Total Quantity	Unit	Unit Rate (INR)	Amount (INR)
A	Rate for Solar system								
1	Supply and Installation of Solar Panel (590 W) bifacial solar panel with each panel having atleast 40 Vmp and connector with cable incl. fittings-Waree,Adani,Tata(Non DCR)	3				3.0	Nos		
2	Supplying & fitting 4 mm ² Copper-DC service cable from Solar panel to Hybrid Controller	1	10			15.0	Meter		
3	Supply and Installation of durable, corrosion-resistant, and high-strength GI Solar structure for solar panels.	1				1.0	Nos		
B	Rate for Pump work								
1	1HP 3 Phase 80-120 Volt solar power pump with hybrid controler (ON GRID/OFFGRID) & Sensor (Kirloskar/Medini/Crompton brand) with all fittings, fixtures, tools, tackles, etc					1.0	Set		
2	1HP hybrid solar pump VFD controllers are advanced devices designed to run 1HP AC induction or BLDC motors using both solar (DC) and grid (AC) power					1.0	Set		
3	Supplying & fitting 1.5 mm ² copper triple core AC service cable from hybrid controller to pump					55.0	Meter		
4	Supplying & fitting 4 mm ² safety cable from ground level to solar pump					75.0	Mtr		
5	Providing and laying of 15mm dia heavy-duty PVC conduit pipe underground for cable protection, complete with all accessories, bends, and proper jointing.					20.0	Meter		

6	Supplying and installing suitable size stainless steel safety wire rope for submersible pump installation in existing bore well, to provide additional safety support to the pump set. The work includes proper tying, clamping, anchoring at top level and ensuring secure suspension of pump, complete as per site requirement					30.0	Meter		
7	Providing and installation of 1" HDPE pipe with nipple for submersible pump					30.0	Meter		
8	Providing and installing submersible pump in the existing bore well along with already installed hand pump without dismantling the hand pump. The work includes lowering of submersible pump, providing and laying column pipe, submersible cable, safety wire, necessary fittings and accessories, connection with power supply, testing and commissioning complete in all respects					1.0	Set		
9	Aquaguard Sediment Filter Select ASF 1500 Operating Input Voltage 100-240 V Water Flow Rate 1500 Max LPH	1				1.0	Nos		
10	Automatic water motor on/off system	1					Nos		
11	Providing & Fixing IEC (Information, Education, and Communication) Branding on ACP (Aluminium Composite Panel) signage with frame.								
	IEC board 1*1.2 m	1				1.2	Sqm		
12	Providing, supplying, installing, testing and commissioning of complete Lightning Arrester/Lightning Protection System for Solar PV array, including air terminal, mounting arrangement, down conductor, clamps, connectors and connection to dedicated 3 earth electrode, complete in all respects with 4 mm Copper wire testing and commissioning complete in all respects	1				1.0	Set		

Detailed Estimation for Public Water Supply Scheme with 2000L Ferrocement Tank construction Near At					
Sl. No.	Description	Quantity	Unit	Rate	Amount
1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	25 mm dia nominal bore used for washout and overflow from PVC Tank Sediment Filter	9.00	P/M		
(ii)	25mm dia Pipe from Tube well to PVC Tank & Sediment Filter	21.00	P/M		
2	Providing and placing on terrace (at all floor levels) ferrocement water storage tank with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.(Calculated)				
2B	Providing and fixing GI extension & nipple for water tank pipe, fittings of approved quality and colour.				
	25mm dia	1	Nos.		
2C	Providing And Fixing Brass Long body Bib Cock 1"*3/4"	4	Nos.		
	Providing and fixing GI Tee & Elbow for Bib cock				
	25*20mm dia	4	Nos.		
2D	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	25mm dia Pipe	1	Nos.		
	Provide & Laying Plateform For Standpost Plateform Concrete	1	Nos.		

