

BAIF INSTITUTE FOR SUSTAINABLE LIVELIHOODS AND DEVELOPMENT

State Office: Odisha

Plot No.: 1565/2682, At Bhatra, PO. Dhanupali, Sambalpur

Odisha 768005

Telephone: +91 7894418530

INVITATION FOR QUOTATION

To

Date: 15-07-2026

Dear Sir / Madam,

Sub.: **INVITATION FOR QUOTATION FOR “ Solar Lift Irrigation ”**

You are invited to submit your most competitive quotation for the following product:

Sr. No.	Brief description of the product/work/ service	Specifications	Quantity (Nos.)	Work period	Place of delivery/work/ service
1	Solar Lift Irrigation System Installation	As per attached sheets	1	Within 15 days from date of issue of S.O.	Kurmuloi, Bamra, Sambalpur, Odisha

Detailed Description of the Product: As above

1. Quoted Price:

- The offer shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating, and re-writing.
- The party shall quote for goods/services in the attached format of the quotation.
- All duties, taxes, and other levies payable on the raw materials and components shall be included in the total price.
- The rates quoted by the party shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- Delivery and transportation at the cost of the party.
- The prices shall be quoted in Indian Rupees only.

2. Each party must submit only one **SEALED** quotation. Party shall not contact other parties in matters related to this quotation.

3. Validity of Quotation

The quotation shall remain valid for a period not less than 30 days after the deadline fixed for submission of quotations.

4. Evaluation of Quotations

- BAIF will evaluate and compare the quotations determined to be substantially responsive i.e. which are properly signed, and conform to the terms & conditions and specifications.



- b. The evaluation would be done for all the goods / services put together or separately as feasible. The items for which no rates have been quoted would be treated as zero and the total amount would be computed accordingly.
- c. A list of similar work undertaken with details of clients etc. if any, should be provided.
- d. Contract will be awarded to the responsive party/parties based on technical-cum-commercial grounds.

5. Award of contract

- a. The contract will be awarded to the party/parties whose quotation has been determined to be substantially responsive and technical specifications and commercial terms best suited to the requirement. BAIF, prior to the expiry of the validity period of the quotation, will notify the party/parties whose quotation has been accepted for the award of contract. The terms of the accepted offer shall be incorporated in the Purchase Order or Work Order. Quotations shall include GST and PAN Numbers.
- b. Notwithstanding the above, BAIF reserves the right to accept or reject any quotation and to cancel the procurement process and reject all quotations any time prior to the award of the contract.
- c. Rate contracts can be entered into for subsequent procurement. Order may be given partially and in multiple slabs.
- d. The party/parties are bound to abide by the Internal Committee guidelines of the Organisation.

6. Normal commercial guarantee / warranty shall be applicable to the supplied goods.

7. Payment terms: Within 10 days after delivery by cheque / electronic transfer on receipt of invoice.

8. Queries pertaining to specifications and scope, if any, may be clarified by contacting the undersigned during office hours.

9. You are requested to provide your offer **on or before 27th July, 2026** in the name of **BAIF Odisha** only at the above address or send a mail to bisld.odisha@baif.org.in with a **password protected file**.

10. We look forward to receiving your quotations and thank you for your interest in this project.

BAIF Institute for Sustainable Livelihoods and Development



“ Solar Lift Irrigation ”



Authorised signatory

(Quotation format only for reference)

To be printed on letterhead / entered in printed quotation / proforma invoice / entered in this format with detailed stamp / seal)

Quotation No.:

Date:

To
The State Head
BISLD - Odisha
Sambalpur

Quotation for _____

Sr. No.	Description of Goods	Specifications, scope, make, etc.	Unit	Qty.	Quoted Unit Price (Rs.)	Total Amount (Rs.) (A)	GST (___%) (Rs.) (B)	Other taxes/packing /installation charges / Discount (Rs.) (C)	Transportation (Rs.) (D)	Gross Amount (Rs.) (A+B+C+D)
1										
2										
3										
4										
5										
	Total									

Terms and Conditions:

1. Warranty / Expiry :
2. Terms of payment :
3. Delivery of material within :
4. Delivery at :
5. Validity of quotation :
6. License (if applicable) (Enclose copy):
7. GST Registration No. (Enclose copy) : _____
8. Permanent Account Number (Enclose copy): _____

Signature and stamp of firm

Signature with Stamp of Firm
Name of Authorised signatory

Name of Project :- FDP(P1188)					
Name of work :- Solar Based Lift Irrigation System					
Village :- Kurmuloi					
Cluster :- Bamara					
Quotation for the SLI- 5 HP, Kurmuloi, Bamra, Sambalpur, Odisha					
ABSTRACT SHEET					
Sr.No.	Description	Unit	Qty (Set)	Unit Price (Rs)	Amount (Rs)
1	Supply, installation, commissioning & testing of submersible open well pump Supply, 5 hp DC submersible (Horizontal) open well pump 15 LPS for 13m Head, With 5 Year Warranty. (Make: KIROLISKAR /SHAKTI/LUBI) Including mounting structures for the solar lift irrigation system, earthing system, lightning protection system as per MNRE Norms, protection system, earthing cable etc. Complete in all respect and as per site condition & specification provided. (Refer Annexure I)	Set	1		
	Supply, installation, commissioning & testing of 05 kWp solar photovoltaic system supply of PV panel (Make: Panasonic/Lumunious/Vikram/Contendor/Renewsys/Emmvee) including mounting structure (Jindal/TATA/Apple/SAIL) , water pump controller (Make - Schneider electric/Amrut Rotomag/ Crompton Greaves / Kirolskar) , earthing system, lightning Arestor protection system as per MNRE Norms, PV cable, connectors, Self cleaning system, accessories, labelling, 2 no of training manual per site, etc. (All Electrical Items Make: Anchor/Polycab), (Refer Annexure I)				
	Supply, erection, installation, testing & commissioning of cable trench material and cable supply of material for cable trench preparation with erection & commissioning as per specification including (1.1 kV, 3 core, 6/10 mm2 flat cable) cable laying from electrical control panel output to water pump input terminal, High Density Pipe- 25mm, 80m, ISI mark termination and commissioning, Complete in all respect and as per site condition & specification provided, This will be considered as a separate item as per actual measurement. (Refer Annexure I)				
	AMC- for 03 years.Periodic visit shall plan on 06 monthly basis or problem rectification Insurance coverage against Fire,theft & Burglary, Insurance of the system against fair and theft of Panel submersible pumps and structure for 01 year				
2	Supply, Excavation, erection, installation, testing & commissioning of piping system with acceseries				
	Excavation for foundation In all type of soft soil strata in wet or dry condition up to 0.9 m depth incl. compacting watering dressing of the excavated stuff ,back filling after foundation.				
	Main Line+Distribution Line	cum.	198.45		
	Supply, erection, installation, testing & commissioning of piping system HDPE pipe, TEE,Bends ,Elbows Jointing material for pipes as detailed in drawing and material giving satisfactory hydraulic testing as per ISI code. (Make - Finolex/Supreme/ Astral).				
	120 mm diameter 6kg/cm2 pipe of Grade PE- 80 for rising main.	Rmt.	310.00		
	110 mm 4kg/cm2 distribution	Rmt.	180.00		
	63 mm tapping	Rmt.	5.00		
	Lowering, laying and jointing HDPE pipes and special of Following class and diameter including cost of conveyance from store to site of work including cost of labor and material giving satisfactory hydraulic testing as per ISI code.Make:Astral/Finolex/Supereme	Rmt.	490.00		
	Providing ISI marked heavy stop valves etc of CI material.				
	Sluice valve 120 mm Casting	Nos.	2.00		
	120X110 mm HDPE long T	Nos.	2.00		
	Ball Valve 63 mm CI	Nos.	12.00		
	Air valve with Saddle CI	Nos.	5.00		
3	Non Retrurn valve 120 mm Casting CI	Nos.	1.00		
3	Providing and Constructing B. B. Masonry Chambers etc.	Nos.	6.00		
4	Complete construction of Intake well (2.0m Dia) (Refer Intake Well, Annexure II)	Nos.	1		
5	Providing & Constructing of Fencing for Protection etc. (Refer Fencing Measurement Annexure III)	Nos.	1.0		

Name of Project : - FDP(P1188)

Name of work :- Solar Based Lift Irrigation System

Village :- Kurmuloi

Cluster :- Bamara

Annexure I			
Sr.No	Solar DC Submersible Pumping system Capacity 5Hp	Unit	Qty (Set)
1	Solar PV Modules- 545 Wp, 10 Nos, Total-5450 Wp. Type-Make -polycrystalline - Panasonic /Luminius/Vikram/Contendor/Renewsys/Emmve e With 25 Year Warranty.	SET	1.00
2	Solar Surface. DC Pump & Motor- 5 HP, 15 LPS for 13m Head , With 5 Year Warranty. Make- Shakti/Lubi/Kirloskar	SET	
3	Solar Pump Controller- 5 HP, With Warranty -5 Year.	SET	
4	Module Mounting Structure- Galvanized,Column - SQ pipe -70X70X4 mm , Purlin CS- 60X40X3,Rafter- CS- 60X40X3mm,Bracing -40X40X3mm Make: Tata/Jindal/Appolo/Sail	SET	
5	Inner Connecting Cable-DC, 6 Sq.mm, Polycab	SET	
6	DCDB- As per MNRE norms - 1 set	SET	
7	Copper Lighting Arrestor Set- As per MNRE norms - 1 set	SET	
8	Separate Earthing for LA, Controller & DCDB - As per MNRE norms - 1 set	SET	
9	Sub. Cable- Copper, 6 sq.m, 3core, 50 m,Make: Anchor/polycab	SET	
10	High Density Pipe- 25mm, 80m, ISI mark	SET	
11	Electrical Fitting material & accessories Make: Anchor/polycab	SET	
12	System Testing, Trasportation, Installation, Integration, Commissioning of system,3 Year Servicing	SET	
13	AMC- 3 Year (Every 6 month or Problematic)	SET	
14	Self Cleaning system for PV modules with 12mm conduits & sprinkle with 1 taps per panel	SET	
15	Insurance of the SLI System 1 year	SET	

Prepared by : ATPE NRM & CA

Niraj Kumar

Name of Project : - FDP(P1188)

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Village : - Kurmuloi

Cluster :- Bamara

MEASUREMENT SHEET							
Sr. No.	Description	Nos	Length	Breadth	Height	Unit	Qty.
1	Excavation for foundation In all type of soft soil strata in wet or dry condition including compacting watering dressing of the excavated stuff ,back filling after lowering, laying and installation of pipes						
	Rising main and distribution	1	490.00	0.45	0.90	cum.	198.45
2	Providing ISI Marked HDPE coil ISI marked Pipes including cost of jointing material etc Complete as directed by engineers incharge Make:Astral/Finolex/Supereme						
	Main Line						
	120 mm diameter 6kg/cm2 pipe of Grade PE- 80 for rising main.	1	310.00			Rmt.	310.00
	110 mm 4kg/cm2 distribution	1	180.00			Rmt.	180.00
	63 mm tapping	5	1.00			Rmt.	5.00
3	Lowering, laying and jointing HDPE pipes and special of Following class and diameter including cost of conveyance from store to site of work including cost of labor and material giving satisfactory hydraulic testing as per ISI code.Make:Astral/Finolex/Supereme	1	490.00			Rmt.	490.00
4	Providing , Supplying PVC Specials.TEE,Bends ,Elbows Jointing material for pipes as detailed..		L.S.				L.S.
5	Providing ISI marked heavy stop valves etc of CI material.						
	Sluice valve 120 mm Casting	2				Nos	2.00
	120X110 mm HDPE long T	2.00				Nos	2.00
	Ball Valve 63 mm CI	12.00				Nos	12.00
	Air valve with Saddle CI	5.00				Nos	5.00
	Non Retrun valve 120 mm Casting CI	1.00				Nos	1.00
6	Providing and Constructing B. B. Masonry Chambers etc.	6.00				Nos	6.00
7	Providing ISI Marked surface 5 H.P. Solar Pump with panel including Cost Of Solar Controller,module mounting structure with manual tracking System,4 sq.mm*3 core DC Copper cable ,Earthing & Lighting etc.						
	1) Panel module -10 no.(545 wp*10) with mounting structure.	10				Nos.	10.00
	2) Controllor	1				Nos.	1.00
	3) Submersible pump -5 h.p	1				Nos.	1.00
	4) 6 sq.mm *3 core copper cable and electrical acceries	1	50			mt.	50.00
8	Providing & Constructing of Fencing for Protection etc.	1	As per attachment (Fencing)				
9	Providing & Constructing of Sump Size Dia.2.0M and Depth 3.00m.in Ring well / Stone work	1	As per attachment (Intake well Estimate)				

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Name of Project : - FDP(P1188)
Name of work :- Solar Based Lift Irrigation System
Village : - Kurmuloi
Cluster :- Bamara

DESIGN OF Lift Irrigation System			
1	Head		
a	Design discharge as per above formula	15.00	LPS
b	Bed RL	283.58	m
c	Lowest water level in river	284.58	m
d	Pump RL	285.08	m
e	Full supply level in Water tank	293.33	m
f	Static head	9.75	m
g	Total length of rising main	310.00	m
h	Friction loss in rising main for pipeline. Headloss due to friction is 5m/1000m. Therefore friction loss for 300 m length	1.55	m
i	5 % head loss in bends and tees	0.08	m
j	Total head loss due to friction	1.63	m
k	Total head (e+i)	11.38	m
l	Say Roundup	13.00	m

2 HP Calculations

HP= Q*H/75*eff.

3.71 hp

Say **5.00** hp

Required 5 HP submersible Pump made SOLAR Pump ISI mark JAIN/KIROLISKAR /SHAKTI/CRI/LUBI for 13 m head. For LPS range 15

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Nitay Kumar

Name of Project : - FDP(P1188)

Name of work :- Solar Based Lift Irrigation System

Village : - Kurmuloi

Cluster :- Bamara

Rising main (Hazens and Wiliams Formula)

$$D = \left| \frac{Q}{0.285 C (Hr / L)^{0.54}} \right|^{1/2.63}$$

Q	14.56
C	150
L	310.00
I	0.0105
Coeff;	0.00000359
i0.54	0.085396923
	4.59862E-05
D^2.63	316616.4286
D	123.44 mm
SAY	120 mm

Discharge

Constant

Total Length of Rising Mains

Recommended 120 mm diameter HDPE pipe of Grade PE- 80,PN6, 310 for rising main.

120 mm 6kg/cm2	310m
110mm 4kg/cm2	180m

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Niraj Kumar

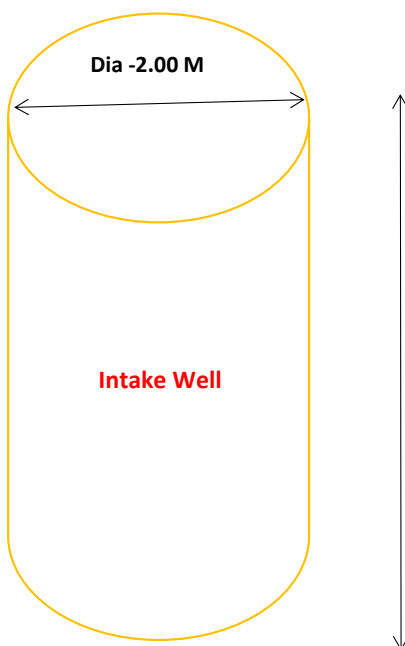
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Village :- Kurmuloi

Cluster :- Bamara

Intake Well, Annexure II			
Sr. No.	Description	Qty.	Unit
1	Excavation of foundation in hard rock of all toughness and boulders above 0.03 cum in volume by mechanical means up to 1.5 mt. incl. compacting watering dressing of the excavated stuff with all lead and lift		
	For Intake well -2.0m Dia (3.14x1.10x1.10x3.0)	11.40	cum.
2	PCC Work (1:3:6)		
	For Intake well bottom -2.0m Dia (3.14x1.0x1.0x0.100)	0.31	cum.
3	RCC Work (M20) (1:1.5:3)		
	Pre casting RCC ring wall 1 feet (0.30 M) height with OD -2M & ID 1.80 M (Complete work - RCC work, Steel work, shuttering work)	10.00	Nos
	thickness of RCC wall -150mm		
	RCC Cover of Intake well (Thickness -75mm)	1.00	cum.
4	Misc. Expenses (Back filling and Misc. work)		



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Nitay Kumar

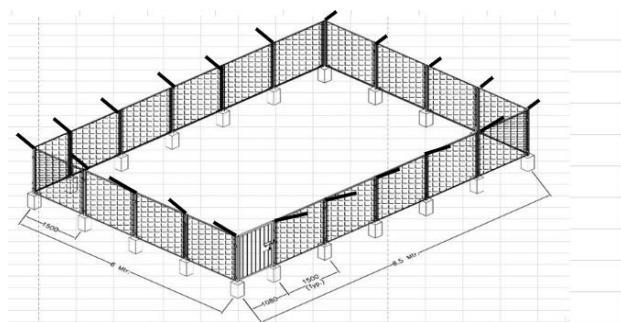
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Village : - Kurmuloi

Cluster :- Bamara

Fencing Measurement								
Sr. No.	Description	Nos	Length	Breadth	Height	Qty	Unit	Total Qty
1	Excavation of pit size 0.30X0.30X0.45							
	Excavation ,	20.00	0.30	0.30	0.45	0.81		
	Fencing Protection wall (Long wall)	2.00	8.5	0.2	0.15	0.51		
	Fencing Protection wall (short wall)	2.00	6	0.2	0.15	0.36		
						1.68	cum	1.68
2	Providing and erection of Galvanised MS Pole including cc 1:1.5:3 strups complete.							
	Concrete Work	20.00	0.3	0.3	0.45	0.81		
	Fencing Protection wall (Long wall)	2.00	8.5	0.2	0.3	1.02		
	Fencing Protection wall (short wall)	2.00	6	0.2	0.3	0.72		
	Dedution	20.00	0.1	0.1	0.3	0.06		
						0.60	Cum	2.49
3	Vertical Pole GI Angle 40X40X5 mm L 2000 mm and Top tilt angle	20				120	kg	120
	Angle for base frame top and bottom 20x20x3 mm							
	At Long wall at top and bottom	2.00	17			34	rmt	
	At short wall at top and bottom	2.00	12			24	rmt	
	Total length					58	rmt	58
	Middle Frame 25x25X3 mm thick L 1500	76.00				125.4	KG	125.4
	Gate Frame (1.5 mX 1m) 80 micron hot dipped GI angle 40X40X5 mm Thick Length 1000mm	2				9.3	kg	9.3
	Gate frame angle 80 micron GI angle 40X40X3 mm Thick L 1000	2				6.2	kg	6.2
	Gate Frame Rod, Bar @12, L 1500	10				12.7	kg	12.7
	Gate Frame Rod, Bar @12, L 1000	6				5.1	kg	5.1
	Hing (150mm)	3					kg	
	Lock & Latch, Latching Connecting plate, MS plate 250X250X5 mm thk	1				2.45	kg	2.45
	Gate Locking flat, MS flat 40X5 tck. L 75	2				0.24	kg	0.24
	Fencing chain link (2"X2" 50X50, wire 3mm @ (1.5 m width X1.5 m) (10SWG)					105	kg	105
	Hold Pass bar, Bar @12, L200	40				6.8	kg	6.8
	Nut Bolts, M12 X40 L	45				-	kg	-
	Concrete block	20	0.3	0.3	0.45	0.3	kg	0.3
	4 Barbade Wire -3mm thick GI	2	8.5	6	NA	14.5	m	29
	Two round above the fencing						m	58
	5 Foundation for outlet(PCC & Brick work)	1	0.45	0.45	0.762	0.154305	m ³	0.154



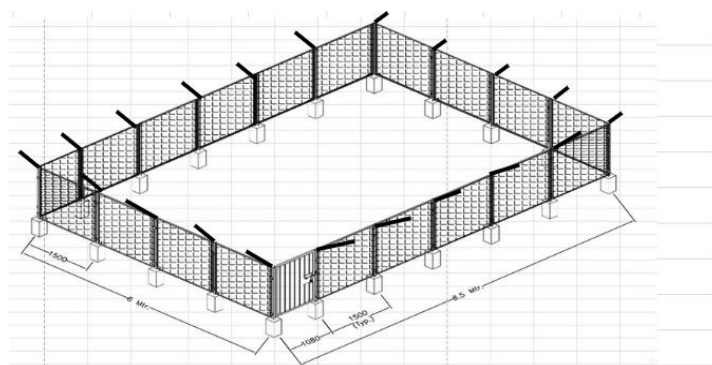
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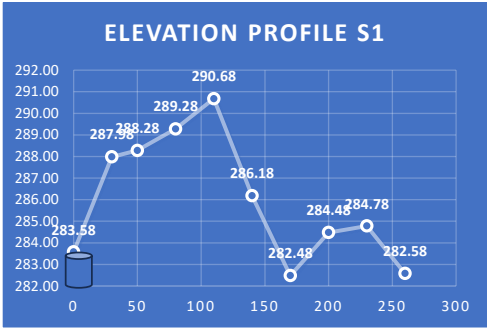
(Fencing EST Annexure III)				
SN.	Particulars	Specifications	Unit	Quantity (No.)
1	Corner & Line post	Galvanised L-Angle Length 2m (40x40x5mm) at corner Make-Jindal/Appolo/TATA	No.	20
2	Strip Section	Galvanised L-Angle Length 1.5m (25x3mm) to bind the mesh at top and bottom Make-Jindal/Appolo/TATA	set	20
3	Base frame at top and Bottom on long and short wall	Galvanised L-Angle of total Length 58m (20x20x3mm) to bind the mesh at top and bottom along the length Make-Jindal/Appolo/TATA	Kg	55
4	Mesh	GI Coated chain 3mm thick link fence Dimond pattern Size 50mmx50mm mesh height 1.5x1.5m Make-TATA/Jindal	Kg	90
5	Fecing Entry Gate & Accessories	Gate Frame size (1.5 mX 1m) GI angle 40X40X5 mm Thick L 1000, Gate ,Gate Frame Rod, Bar @12(6 nos vertical), L 1500, Gate Frame Rod, Bar @12(10 nos horizontal), ,Hing (150mm), Middle Frame 25x25X3 mm thick L 1500 Lock & Latch, Latching Connecting plate, MS plate 250X250X5 mm thick, Gate Locking flat, GI flat 40X5 tck. L 75 Make-Jindal/TATA/APPOLO	Set	1
6	Lock,nuts bolts & Hing	Lock & Latch, Latching Connecting plate, GI plate 250X250X5 mm thick with washer and Hing (150mm) Make-TATA/USHA/ISI standard	Set	1
7	Barbade Wire	Barbade Wire -3mm thick GI Make-TATA/Jindal	Kg	15
8	Excavation and concreting(for fencing)	Excavation of pit & concreting with 1:1.5:3(M20) concrete mix	cum	1.68
9	Foundation for outlet	PCC brick work for foundation at outlet(1.5x1.5x2.5 ft)	Nos	1



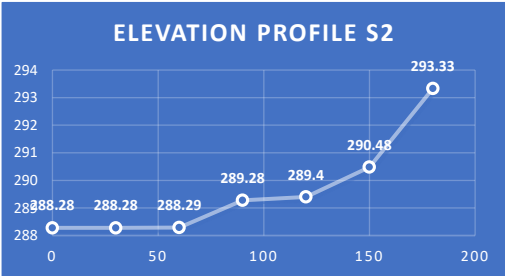
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Head Calculation

Sr.No.	Chainage	Reading (mtr.)	Lattitude	Longitude	Delivery discharge Point	Pipe Pressure	Remarks
0	0	283.58	21.856073	84.521510	Intake Well	4 kg/cm2	Bed RL
1	30	287.98	21.856337	84.521535	O - 1		
2	50	288.28	21.856505	84.521535	TL2		
3	80	289.28	21.856733	84.521513			
4	110	290.68	21.857015	84.521527	O - 2		
5	140	286.18	21.857308	84.521538			
6	170	282.48	21.857587	84.521585			
7	200	284.48	21.857835	84.521596			
8	230	284.78	21.858080	84.521595	O - 3		
9	260	282.58	21.858364	84.521547			
10	310	282.07	21.858777	84.521362	O - 4		
Total	310	7.10					
Total purpose length of rising main							



Sr.No.	Chainage	Reading (mtr.)	Lattitude	Longitude	Delivery discharge Point	Pipe Pressure	Remark
TL-2	0	288.28	21.856505	84.521535		4 kg/cm2	
TL-3	30	288.28	21.856503	84.521795			
TL-4	60	288.29	21.85656	84.22116			
TL-5	90	289.28	21.85655	84.522401	O - 5		
TL-6	120	289.4	21.856522	84.52265			
TL-7	150	290.48	21.856502	84.52294			
TL-8	180	293.33	21.856538	84.523232	O- 6		
Total	180	9.75					
Total purpose length of rising main							



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