

HISTORY SHEET

Estimate No:- T.S No:-13(Thirteen)/CE /Agri/DA/MGNREGA/TS/2015-16/Dated 07/12/2015.

Name of Work:- Model Estimate for installation of Small Bore Deep Tube Well(SBDTW) for irrigation fitted with Submergible pump set having capacity 2000 GPH at 40m head including laying of 100m distribution pipe of 40mm dia at different location in Tripura(RD schedule) under MGNREGA during 2015-16.

Department :- Department of Agriculture.

Target :- 2500 Nos SBDTW for Department of Agriculture during 2015-16

Scheme:- MGNREGA

Administrative Approval & Expenditure Sanction: - As per communication of concerned DM & Collector.

Fund Available / Not Available:- Available under MGNREGA Scheme during 2015-16.

Mention reference on which estimate is prepared:- As per instruction of the Director of Agriculture, Govt. of Tripura vide his letter No.F.21(12)-Agri/SS/2015-16/2452-59 Dated, 04/12/2015 and subsequent decision taken in a meeting held in this regard on 04/12/2015 in the office chamber of the Joint Secretary to the Govt. of Tripura, RD Department.

Estimate is revised :- No.

If yes , mention the earlier T.S. No.:-Nil

REPORT

The estimate has been framed as per decision of the Director, Department of Agriculture, Agartala and subsequent discussion held in this regard on 04/12/2015 in the office chamber of the Joint Secretary to the Govt. of Tripura, RD Department. 6 % to 8% of labour component may be enhanced for North, Unokoti & Dhalai District depending upon the soil characteristic, site condition and depth of water bearing strata etc which may be considered with due regards to the governing factors during implementation of the work. All necessary items have been included in the estimate based on current RD approved rate (HPC approved rate), beside 3% for contingency & 1% for labour CESS - considered in the estimate

Estimate cost:- Rs2,47,400 /- (Rupees Two Lac Forty Seven Thousand four hundred) only.

Schedule of Rate:- As per RD Schedule & latest RD approved rate (HPC approved rate).

Method:- Departmental Execution by Agriculture, Rural Development and TTAADC.

Availability of site: Available that to be finalized in consultation with and approval by the PRI Body.

Demarcation is done:- As per available site condition.

Tentative completion time: - January 2016 to May -2016 for 2500Nos and average 10 (Ten) days for Each.

Soil Category:- Tripura Soil Condition..

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8.	32 AMPS main switch (220 volts) (Re-wireable type) of Hevels/BCH/L&T make. (To be supplied with submersible pump set)	@ 1431.00 (LMR)	Set	1	1431/-
9.	PVC insulated 3 core flat copper cable conforming to relevant IS code suitable for submersible motor. (To be supplied with submersible pump set)	@ 102.01 (SOR-2015 DWS)	Mtr.	35	3,570/-
10.	Flexible pipe (waste fittings 40 mm dia)	@ 34.00 (SOR- 2015 DWS)	Mtr.	30	4500/-
11.	G.I Socket (40 mm dia.)	@ 38.10 (SOR-2015 DWS)	Nos.	21	800/-
12.	G.I Unequal Tee (50 X 50 X 40 mm dia.)	@ 126.70 (SOR- 2015 DWS)	Nos.	5	634/-
13.	G.I Equal Tee (40 X 40 x 40 mm dia.)	@ 76.20 (SOR- 2015 DWS)	No.	1	76/-
14.	G.I Union Joint. (40 mm dia.)	@ 107.60 (SOR- 2015 DWS)	No.	1	108/-
15.	G.I. Bend (40 mm dia.)	@ 177.90 (SOR- 2015 DWS)	Nos.	5	890/-
16.	G. I Reducer (50 X 40mm dia)	@ 71.50 (SOR- 2015 DWS)	No.	1	72/-
17.	G.I Full way valve (40 mm dia.)	@ 299.90 (SOR- 2015 DWS)	Nos.	5	1500/-
18.	G.I Safety climbs (100 mm dia.)	@ 350.00 (SOR- 2015 DWS)	No.	1	350/-
19.	UPVC Reducer (150 mm X 100 mm dia.) suitable for UPVC 'CM' casting or 'CS' casting or 'RS' pipes (confirming to IS : 12818)	@ 720.00 (SOR- 2015 DWS)	No.	1	720/-
20.	Housing clamp (150 mm dia.) [made with 12 mm thick MS Sheet) as per specification (IS : 2800 – Part-1]	@ 350.00 (LMR)	No.	1	350/-
21.	UPVC Bail plug Suitable for 113 mm outer dia. UPVC pipes	@ 200.00 (LMR)	No.	1	200/-
22.	UPVC pipe 50 mm OD (conforming to IS : 4985)	@ 63.00 (SOR- 2015 DWS)	Mtr.	100	6300/-
23.	UPVC Socket/ coupler conforming to IS : 10124 (Part-2)	@ 37.00 (SOR- 2015 DWS)	Nos.	50	1850/-
24.	UPVC end cap 50 mm dia. conforming to IS : 10124 (Part-2)	@ 35.00 (SOR- 2015 DWS)	No.	1	35/-
25.	UPVC end cap 140 mm dia. conforming to IS : 10124 (Part-4)	@ 125.00 (SOR- 2015 DWS)	No.	1	125/-
26.	Barak Bamboo	@ 250.00 (LMR)	Nos.	3	750/-

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27.	Muli Bamboo	@ 20.00 (LMR)	Nos.	10	200/-
28.	Coir Rope	@ 75.00 (LMR)	Kg.	1	75/-
29.	Teflon Tape	@ 30.00 (LMR)	Nos.	4	120/-
30.	Plumber	@ 300.00 (LRM)	Kg.	2.5	750/-
31.	40 mm dia 150 mtr. long G.I Nipple	@ 41.00 (LMR)	Nos.	4	164/-
32.	Solvent cement conforming to IS : 14182	@ 180.00 (SOR- 2015 DWS)	Kg.	½	90/-
33.	Cement	@ 6.80 (SOR- 2015 DWS)	Kg	10	68/-
34.	Nuts & Bolts.	@ 86.00 (SOR- 2015 DWS)	Kg.	½	43/-
35.	PVC insulation Tap.	@ 11.70 (SOR- 2015 DWS)	No.	2	23/-
36.	Rubber insertion 3 mm thick. 100 mm dia.	@ 18.10 (SOR- 2015 DWS)	No.	2	36/-
SUB TOTAL OF (A)					1,27,498/-
Add:- 15% enhanced cost over basic rate of SOR-2015, DWS for overheads, contractors profit & haulage etc. (on item no. 1,2, 3,4,5,9,10,11,12,13,14,15,16,17, 18, 19,22,23,24, 25, 31,32,33,34,35 & 36) (on Rs.1,00,501/-)					15,075/-
Add:- 10% enhanced cost over Local Market Rate (on item no.6,7,8,20,21,25,26,27,28,29,30,31) (on Rs.26,997/-)					2,700/-
TOTAL OF (A)					1,45,273/-

NB:- Rates of different materials considered in the estimate is indicative & during implementation all rates to be finalized observing the codal formalities as per DFPRT-2011. Issue rates of R.D approved items shall be followed for the materials to be lifted from R.D store.

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B) Manpower component:

Sl. No.	Description	Unit	Cost of unit as per RD Schedule	Requirement	Amount
				Per well	Cost of each well
1.	Highly skilled	No.	Rs.290.00	37.00	10,370/-
2.	Skilled	No.	Rs.254.00	102.00	25,908/-
3.	Semi skilled	No.	Rs.218.00	75.00	16,350/-
4.	Unskilled	No.	Rs.189.00	139.00	26,271/-
TOTAL OF (B) (Wages component for Khowai, Sepahijala, West, South & Gomati District)					78,899/-
NB: - Wages component @6% to 8% @ may be enhanced for North, Unakoti & Dhalai District depending upon the location of SBDTW and soil condition.					

C) Usage charges of Plant & Machineries and important tools.

Sl. No.	Description of Plant & Machineries	Rate	Target	Cost of each well
1.	Supplying & fitting fixing of M.S. (18 SWG) KIOSK (size 1200 mm length x 450 mm width x height 450 mm) fitted four side slope roof filled with 4 Nos. support of 40 mm X 40 mm (6mm thick) MS angle, 1.00 mtr. Length from the top level of concrete base embedded in 1:2:4 cement concrete base (size 300mm X 300 mm X 600mm) with proper locking arrangement and coated with anti corrosive paint (both inside and outside) including necessary provision for fitting fixing of single phase motor starter unit, main switch, energy meter etc complete in all respect as per direction of the Engg-in-charge.	5,000/-	1 Job	5,000/-
2.	Extension of Electric Service connection with providing 30 mtr. length of LT Line including providing & fixing GI Pipe of 40 mm. dia Tata medium class of 3 mtr. Length fitted in the CC Block 1:2:4 of 300mm X 300mm X 500 mm as per direction of the Engg-In-Charge.	4,000/-	1 Job	4,000/-
3.	Trial run & commissioning of the scheme in all respect as per direction of the Engg-In-Charge.	1,000/-	1 Job	1,000/-
4.	Hiring of diesel pump.	88/-	2 Hr.	176/-
5.	Hiring of chain pully, chain etc.	118/-	4 Hr.	472/-
6.	Hiring of air compressor. 300-450 cfm for use in SBDTW for washing & development of well.	1,480/-	2 Hr.	2,960/-
7.	Hiring of Theader for G.I. Pipes	59/-	2 Hr.	118/-
8.	Hiring of water tank.6.00 kilo litre capacity.	298/-	2 Hr.	596/-

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	Sub Total of (C)	14,322/-
	Add:-15% enhanced cost over basic rate of SOR-2015, DWS for overheads contractors profit etc. (on item no. 4,5,6,7 & 8) [on Rs.4,322/-]	648/-
	Add:- 10% enhanced cost due to escalation of price of materials at the time of execution of work.	1,000/-
	Total of (C)	15,970/-
	Total (A + B + C)	2,40,142/-
	Add:- 3% contingency for carriage of materials at FOR destination and others (on Rs.1,61,243/-)	4,837/-
	Add:- 1% labour cess (on Rs.2,40,142/-)	2,401/-
	Grand Total	2,47,380/-
	Say Rs.2,47,000/-	
	(Rupees two lacs forty seven thousand) only	

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T/S No. 13/CE/AGRI/DA/MGNREGA/TS/2015-16 dated 07.12.2015.
 Technically sanctioned amount of Rs. 2,47,000/- (Rupees two Lacs forty seven thousand) only is hereby approved.

A. Das
 7/12/15
 (Er. Anand Das)
 Chief Engineer,
 Department of Agriculture,
 Tripura.

Name of work:- Model estimate for Installation of Small Bore Deep Tube Well for irrigation fitted with submersible pump set having capacity 2000 GPH at 40 mtr head in/c laying of 100 m distribution pipe of 40mm dia (1 Unit) at different location in Tripura (RD Schedule) under MGNREGA during 2015-16.

- 1) Size of well = 150 mm X 100 mm NB.
- 2) Depth of well = 87 mtr. = 285 fit.
- 3) Discharge of well = 3500 GPH.
- 4) Capacity of submersible pump set = 2000 GPH at 40 mtr. head having 2 HP capacity.
- 5) Delivery of pipeline = 40 mm dia.

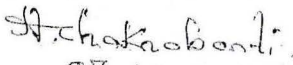
Sl. No.	Item & Specification	Materials Quantity	Labour Quantity
1.	Construction of Barak Bamboo scaffolding for drilling & lowering of the tube-well in/c cutting a tank 2.00 m X 2.00 m X 0.90 m size in drilling & cutting the two tank with 0.30 m width & 0.15 m deep drain. 1) 1 Job	Barak Bamboo 3 Nos. Muli Bamboo = 10 Nos. Coir rope = 1 Kg.	Highly skilled = 0.75 No Skilled = 0.95 No. Unskilled = 2 Nos.
2.	Drilling & Boring of pilot hole in any soil strata by manual means collection of soil samples of different strata met with during drilling at various suitable levels, preservation of samples in polythene Bags sample boxes and disposed of excess soil on mud including the cost for water etc as required to maintain the project hole properly as per specification & direction of the Engg-in-charge. 1) 100 mm dia, N B - 90.00 m /per well	Water = 21.6 KL. Water Tank = 7.2 hr. Collection samples = 1% of materials cost. Sundries = 0.15% of materials cost. Carriage of materials = 2.5%	Highly skilled = 2 (Nos.) Skilled = 21 Nos. Semi skilled = 21 Nos. Unskilled = 21 Nos.
3.	Reaming the pilot hole to an enlarged bore hole in any soil strata by manual means, disposal of excess soil an mud, including the cost of water etc as required to maintain the bore hole properly as per specification and direction of the Engineering - in - Charge. 1) For 100 mm dia pilot Hole to 250mm Bore Hole. - 90.00m/per well	Water = 21.6 KL. Water Tank = 6.72 hr. Sundries = 0.15% of materials cost. Carriage of materials = 2.5%	Highly skilled = 2 Nos Skilled = 20.16 Nos. Semi skilled = 20.16 Nos Unskilled = 20.16 Nos
4.	Providing & lowering of UPVC pipe as per IS: 12818 after washing of the bore hole by manual means as per specification & direction of the Engg-In-Charge.		

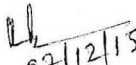
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	<p>A. <u>'CS' Casing Pipe.</u> i)150 mm dia NB</p> <p>ii)'<u>CM' Casing Pipe.</u>100 mtr dia NB</p> <p>B. <u>'RS' strainer pipe 100 dia nominal bore</u></p>	<p>36 (Thirty six) mtr</p> <p>24 (Twenty four) mtr</p> <p>27 (Twenty seven) mtr</p>	<p>Highly skilled =3 Nos. Skilled = 20 Nos. Semi skilled = 20 Nos. Unskilled = 10 Nos.</p> <p>Highly skilled = 2 Nos. Skilled = 4 Nos. Semi skilled = 4 Nos. Unskilled =4 Nos.</p> <p>Highly skilled = 2 Nos. Skilled = 6 Nos. Semi skilled = 6 Nos. Unskilled = 4 Nos.</p>
5.	Development & washing the tube-well by using air compressor (diesel operated) until sand free clear water is available as per direction of the Engg-in-charge. - 1 Job.	<p>Hiring charge of hand pump = 30%</p> <p>Sundries = 0.15%</p> <p>Water charge = 1%</p> <p>Carriage of materials = 2.5%</p>	<p>Highly skilled = 1.75 Nos. Skilled = 1.75 Nos. Semi skilled = 4 Nos. Unskilled = 2 Nos.</p>
6.	<p>Providing & shrouding of deep tube well assembly with washed pea gravels (2.00 -4.75 mm effective size) as per specification (IS: 4097) and direction of the Engg-in-charge.</p> <p>1) Pea gravels obtained from Golaghati.</p>	4 (four) cum	<p>Highly skilled = 3 (Nos) Skilled = 10 (Nos) Unskilled = 20 (nos)</p>
7. (A)	<p>Providing and fitting fixing of submersible pump having capacity of 2000 GPH, 40 mtr. head with single phase 2HP submersible motor(water filled) suitable for 150 mm X 100 mm bore well as per direction of the Engg.-in-charge.(CRI/KSB/Worthington/ Taxmo / Lubi /Kirloskar) .</p> <p>1) 1 set.</p>	1 set.	<p>Highly skilled = 2 (Nos) Skilled = 2 (Nos) Unskilled = 2 (nos)</p>
7. (B)	<p>Providing & fitting fixing with PVC insulated 3 core flat copper cable conforming to relevant IS code for submersible motor with necessary equipments and fittings as required as per specification and direction of the Engineer-in-Charge.</p> <p>21mtr length 3 core copper PVC insulated industrial type flat cable (2.5 Square mm size) confirming to IS: 694 complete in all respect.</p>	21mtr length (3 core copper PVC insulated industrial type flat cable) (2.5 Square mm size)	<p>Highly skilled = 2 (Nos) Skilled = 2 (Nos) Unskilled = 2 (nos)</p>


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8.	<p>Providing, fitting fixing, lowering, positioning & resting of 40mm dia G.I. column pipe (medium class) both end threaded (maximum length of each column pipe is 3mtr and total 21 mtr long column assembly) in/c. fitting fixing of necessary GI socket with submersible pump set by taplon and other compounding materials etc. complete in all respect as per direction of the Engg-in-charge.</p> <p>1) 21 mtr per scheme = 21 mtrs</p>	<p>G.I. Pipe = 21 mtr. G.I socket = 21 Nos.</p>	<p>Highly skilled =2 (Nos) Skilled = 4 (Nos) Unskilled = 4 (nos)</p>
9.	<p>Supplying & fitting fixing of M.S. (18 SWG) KIOSK (size 1200 mm length x 450 mm width x height 450 mm) fitted four side slope roof filled with 4 Nos. support of 40 mm X 40 mm (6mm thick) MS angle, 1.00 mtr. Length from the top level of concrete base embedded in 1:2:4 cement concrete base (size 300mm X 300 mm X 600mm) with proper locking arrangement and coated with anti corrosive paint (both inside and outside) including necessary provision for fitting fixing of single phase motor starter unit, main switch, energy meter etc complete in all respect as per direction of the Engg-in-charge.</p> <p>1) 1 Job</p>	<p>1 No. M.S. (18 SWG) KIOSK (size 1200 mm length x 450 mm width x height 450 mm)</p>	<p>Highly skilled = 2 (Nos) Skilled = 2 (Nos) Unskilled = 2 (nos)</p>
10.	<p>Supply & fitting fixing of single phase motor starter Unit for 2 Hp submersible Pump set (with 2 pole contractor, Running capacitor 50+ 50 MFD, starter capacitor 200/250 MFD, 1 No overload relay 18-25A adjustable type, volt meter (0-420V), Amps meter (0-150A), 1 No 25 Amps ON/OFF switch, 1 no. Indicating lamp etc of same brand of supplied pumps /C&S/BCH/L&T/Schneider make and 32 AMPS main switch (220 volts) (Re-wireable type) of Hevels/BCH/L&T make in/c necessary electrical wiring in the KIOSK and G.I Pipe earthing as per electrical rules etc. complete as per direction of the Engg-In-Charge.</p> <p>1) 1 Job</p>	<p>i) Strarter = 1 Set complete (Suitable for 2 HP submersible pump set consisting of 2 pole contractor, Running capacitor 50+ 50 MFD, starter capacitor 200/250 MFD, 1 No overload relay 18-25A adjustable type, volt meter (0-420V), Amps meter (0-150A), 1 No 25 Amps ON/OFF switch, 1 no. Indicating lamp etc)</p> <p>ii) 32 AMPS main switch - 1 No.</p>	<p>Highly skilled = 2 (Nos) Skilled = 2 (Nos) Unskilled = 2 (nos)</p>
11.	<p>Extension of Electric Service connection with providing 30 mtr. length of LT Line including providing & fixing GI Pipe of 40 mm. dia Tata medium class of 3 mtr. Length fitted in the CC Block 1:2:4 of 300mm X 300mm X 500 mm as per direction of the Engg-In-Charge. 1 Job.</p>		<p>1 Job.</p>

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12.	Providing and fixing of UPVC reducer for UPVC 'CM' casing or 'CS' casing or 'RS' Pipes as specification and direction of the Engg-In-Charge. 150 mm X 100 mm size. 1) 1 X 1 = 1 No	1 No. UPVC reducer having size 150 mm X 100 mm	Highly skilled = 0.50 No Unskilled = 1 No
13.	Providing and fixing of UPVC bail plug suitable for 113 mm outer dia UPVC pipes as per direction of the Engg-In-Charge. 1) 1 X 1 = 1 No.	1 No. UPVC bail plug	Highly skilled = 0.50 Nos Unskilled = 1 no
14.	Providing and fixing of housing clamp (made with 12 mm thick MS Sheet) by welding with blind pipe in/c applying of anti-corrosive bitumastic paint as per specification (IS : 2800-Part-I) and direction of Engg-In-Charge. (a)Size :- 150mm dia. Nominal bore 1) 1 X 1 = 1 no.	1 No. housing clamp (made with 12 mm thick MS Sheet) having size 150mm dia. NB	Highly skilled = 0.50 No Unskilled = 1 No.
15.	Providing and fixing of UPVC end Cap suitable for UPVAC 'CM' casing or 'CS' casing or 'RS' pipes as per specification and direction of Engg-In-Charge. (a)150 mm dia, nominal bore 1) 1 X 1 = 1 no.	1 No. UPVC end Cap having size 150mm dia. NB	Highly skilled = 0.50 No Unskilled = 1 no.
16.	Providing and fixing of safety clamp with submersible pump set as per direction of Engg-In-Charge. 100 mm dia, 1) 1 X 1 = 1 No	1 No. safety clamp having size 100 mm dia,	Highly skilled = 0.50 (Nos) Unskilled = 1 (nos)
17.	Providing & laying of Cement concrete 1: 2 : 4 (1 Cement : 2 river sand : 4 jhama bricks aggregate 20 mm nominal size) excluding cost of centering, shuttering, finishing & reinforcement – all work up to plinth level. 1) 0.175 Cum per scheme= 0.175 Cum	Cement - 0.175 Cum	Highly skilled = 0.50 (Nos) Skilled = 1 (Nos) Unskilled = 2 numbers (nos)
18.	Excavation trenches of required width for pipe, cables etc. including excavation sockets and dressing of sides where required, ramming of bottom depth up to 1.5 mtr. Including getting out the excavated soil and back filling of soil as required after laying of pipeline, In Layers not exceeding 200 mm in depth including consolidating each deposited Layer by ramming, watering etc. and disposing of surplus excavated soil with all required leads as per chapter -2 of CPWD specification and direction	100 mts	Unskilled = 20 (nos)

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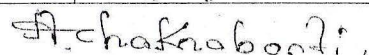
	of Engg-In-Charge. A. For U. PVC Pipe in new work. a. In all kinds of Soil. i) for Pipes not exceeding 90 mm dia 151 mtr. Per scheme =100 mtr.		
19.	Providing, fixing and laying rigid UPVC Pipe conforming to IS: 4985 jointing with couplers of same class conforming to IS : 10124 (Par I=II) with solvent cement conforming to IS: 14182 including testing of joints. Complete (but excluding the cost of specials like bend, tees etc. per chapter-20 of CPWD specification and direction of the Engg-In-Charge. a) 50 mm dia (Working presence 2.5 kg/cm ²)	UPVC Pipe having size -50 mm dia - 150 mtr.	Highly skilled = 2 (Nos) Skilled = 2 (Nos) Unskilled = 4 (nos)
20.	Providing, fixing and laying fabricated UPVC end Cap conforming to IS: 10124 (Part-4) with solvent Cement conforming to IS: 14182 including testing of joints complete as per chapter 20 of CPWD specification and direction of the Engg-In-Charge. 1) 50 mm dia. 2 Nos. X 1 =2 Nos.	UPVC end Cap having size 50 mm dia – 2 Nos.	Highly skilled = 0.50 (No) Skilled =0.75 No Unskilled = 2 (Nos)
21.	Providing and fixing G.I Unequal Tee with the pipeline including testing of joints complete as per CPWD specification and direction of the Engg-In- charge. 1) 50mmx50mm x 40mmdia 5X 1 = 5 nos.	G.I Unequal Tee having size 50mmx50mm x 40mmdia - 5 Nos.	Highly skilled = 0.50 (No) Skilled =0.75 No Unskilled = 2 (no)
22.	Labour changes for making G.I short piece in/e cutting , threading at both end, fitting fixing at site etc. as specification and the direction of the Engg-In- change. (G.I pipes will be supplied separately). a) External work :40mmdia NB 6mtr x 1 = 6mtr	6 m	Highly skilled = 0.50 (Nos) Skilled =0.75 No Unskilled = 1 nos
24.	Labour Charges for fitting fixing of hydrant point with GI short pieces including connection with distribution pipe lines as per direction of the Engg-In- charge . 1) 4 Nos.	4 nos.	Highly skilled = 0.75 (Nos) Skilled =1 (Nos) Unskilled = 1 (nos)
25.	Providing and fixing G.I union as per CPWD specification and direction of the Engg-In- change . 1) 40mmdis 1No	G.I union having size 40 mm dia – 1 No.	Highly skilled = 0.75 (Nos) Unskilled = 1 (nos)

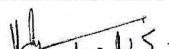
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26.	Providing and fixing of G.I equal tee with the pipeline in/c testing of joints completed as per CPWD specification and direction of Engg-In-charge 1) 40mmdiax40mmdiax40mmdia. 1 No.	G.I equal tee having size 40mmdiax40mmdiax40mmdia. - 1 No.	Highly skilled = 0.75 (Nos) Unskilled = 1 (nos)
27.	Providing and fitting fixing of G.I Bend / elbow in the pipelines in/c testing the joints, complete as per direction of the Engg-In- change . 1) 40mmdia NB 5 Nos.	G.I Bend / elbow having size 40mmdia NB - 5 Nos.	Highly skilled = 0.75 (Nos) Unskilled = 1 (nos)
28.	Providing and fitting G.I reducer with pipe line including testing of joints complete as per CPWD specification and direction of the Engg-In-change . 1) Size : 50 mm X 40 mm 1 No.	G.I reducer having size 50 mm X 40 mm - 1 No.	Highly skilled = 0.75 (Nos) Unskilled = 1 (nos)
29.	Providing and fitting fixing of GI full way valve as per chapter -20 of CPWD specification & direction of the Engg-In- charge . Size 40 mm dia. 1) 4 Nos.	GI full way valve having size 40 mm dia. - 5 Nos.	Highly skilled = 1 (No) Skilled labour = 1 No. Unskilled = 2 (nos)
30.	Painting G.I pipes and fittings with synthetic enamel paint over a ready mixed priming coat, both of approved quality for new work as per CPWD specification and direction of the Engg-In- Charge. 1) 40mmdia NB. 6mtr		Skilled labour = 0.75 No. Unskilled = 1 (nos)
31.	Providing, fixing & testing of 40 mm dia nylon rubber coated flexible pipe (suprime) as per direction of the Engineer-in-charge. 1) 1x30m = 30 m	Nylon rubber coated flexible pipe (suprime) having size 40 mm dia. - 30 mtr.	Semi skilled = 2 (nos)
32.	Providing and fitting, fixing of 40mm dia clamp (approved quality) with 40mm dia nylon rubber coated flexible pipe as per direction of the Engineer-in-charge. 1) 1 nos.	40mm dia clamp (approved quality) - 1 No.	Semi skilled = 2 (nos)
33.	Trail run & commissioning of the scheme in all respect as per direction of the Engg-In-Charge. 1) 1 job.		Highly skilled = 0.50 No. Skilled labour = 1 No. Unskilled = 1 No.


 07.12.2015
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 O/o. the Chief Engineer (Agri.)
 Tripura, Agartala


 07/12/15


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