

<b>GUJARAT WATER SUPPLY AND SEW. BOARD</b>					
Tal.:- Dhoraji				Dist. Rajkot	
<b><u>Name of Work: Electrification and other Miscellaneous Work for WTP of Bhadar-2 RWSS Scheme.Under Bhadar-2 RWSS. Taluka : Dhoraji , Dist: Rajkot</u></b>					
<b>SCHEDULE A</b>					
Schedule showing (approximately) the materials to be supplied to Agency of work to execute the work and the rates at which they are to be charged for					
Sr. No	Particulars	Approximate Quantity	Rate which the materials will		Place of Delivery
			unit	Rate in Rs.	
<b>NIL</b>					
<b>Notes:</b>					
1 The contractor submitting the tender should see that the rates in the schedule A of the tender documents are filled up by the engineer in charge at the time of issue of tender .					
2 Any additional quantity of materials to be supplied as per schedule A if found necessary at the time of execution will be supplied to the contractor .					
3 Any materials other than those provided in the schedule A required for the item of work of schdue B will issued on request of the contractor provided the same is available with the department.					
4 The rate change will be prevailing market rate or a department issued rate whichever is higher ,the decision whether the such materials should be issued or note to the contractor is left to the decision of the Executive Engineer.					
<b>Signature of the Contractor</b>		<b>Dy.Exec.Eng</b>		<b>Ex. Engineer</b>	
		<b>P.H.S.Sub Div</b>		<b>P.H.Works Div</b>	
		<b>Dhoraji</b>		<b>Jetpur</b>	

Gujarat Water Supply and Sewerage Board				
Public Health Sanitation Sub Division - Dhoraji				
Name of Work: Electrification and other Miscellaneous Work for WTP of Bhadar-2 RWSS Scheme.Under Bhadar-2 RWSS. Taluka : Dhoraji , Dist: Rajkot				
Schedule - B				
SOR : GWSSB Civil SOR 22/23, GWSSB electo-mech SOR-21-22 & Ele. SOR 2025-26 of R & B Department				
Discription	Qty	Unit	Rate	Amount
<b>Item No.01. Main Filter House Panel Board</b> LV POWER CONTROL CENTER (PCC) SITC of 125 A LV POWER CONTROL CENTER (PCC) SITC of LV Distribution Board (LVDB) totally enclosed, dust & vermin proof, indoor type, fabricated from CRCA sheet steel with minimum thickness of 3 mm for base frame/ channel/ gland plates, 2.0 mm for load bearing members/ doors & 1.6 mm for internal partitions, minimum degree of protection - IP 52 as per IS: 2147, suitable for operation on 3-Phase, 4 Wire, 415V, 50Hz, Neutral effectively grounded, with instrumentation compartments accomodating meters, aux / protective relays, LED type indicating lamps & control MCBs as per IS: 13947, current & voltage transformers as per IS: 2705, air insulated electrolytic grade Aluminium/ Copper busbar for three phase & neutral system, GI earth bus for entire length, power/ control wiring using 1100V grade, FRLS insulated copper conductor wires conforming to IS: 694 & 8130, equipment fittings, horizontally running busbar compartment height of minimum 300 mm, incoming & outgoing cable connections for 1100V grade, Aluminium/ Copper conductor XLPE/ PVC insulated & PVC sheathed armoured cable. LVDB shall have required incoming/ buscoupler/ outgoing modules of following type & ratings. (1) 01 Nos. of 125 A, 3 & 4 Pole, Air Break Fixed MCCB conforms to IS / IEC 60947-2 with trip free mechanism, current limiting type with Thermal-Magnetic / Microprocessor release (O / C, S / C & E / F) with adjustable settings & having minimum 2NO+2NC potential free auxiliary contacts with all necessary Electro-Mechanical protections & interlocks etc. MCCB module, when used as Incommer / Bus Coupler, shall have enclosure dimensions- 1800(H) x 600(W) x 600 (D) & following technical features: 4 pole, MDO with Microprocessor Release(01 Nos. for Incomer)				
Outgoing feeders :- (1) 32 Amp. - 8 No (For 1.5 KW Motor for Various WTP Work & 1 No. Feeder for Lighting Load) 4 Pole, MCCB with Breaking Capacity of Icu=25 KA at 415V (Ics =100% of Icu), TM release - conforms to IS/ IEC 60947-2 with trip free mechanism, current limiting type with Microprocessor release (O / C, S / C & E / F) with adjustable settings & having minimum 2NO+2NC potential free auxiliary contacts with all necessary Electro-Mechanical protections & interlocks etc. MCCB module, when used as Outgoing(s), shall have enclosure dimensions - Minimum 600 (D) 3P and 2P MCB shall be provided for spare	1	Nos.	188463.00	188463.00
<b>Item No.02 : Flash Mixer</b> Providing, installing & commissioning Flash mixer impeller with motor, gear arrangement & electrical cable, connections, control panels etc.(size as per design) 2.0 HP.	1.0	Each	38685.00	38685.00
<b>Item No.03 : Clarifloculator Bridge Motor</b> Motors and Gearboxes : For clari Bridge Extra for 3 motors of required RPM and 3 gear box assembiles with one slippering unit including wiring and installing switch and control panel as per requirement.	1.0	Set	106385.00	106385.00
<b>Item No.04 :</b> Mains with 1.1kV grade FRLS PVC insulated ISI marked stranded copper conductor wire in following type of pipe to be erected in/ on wall /ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. With medium class Rigid PVC pipe and accessories a. 2 wire 4 sq.mm (with 2.5 sq.mm earth wire)	225	mtr	111.00	24975.00
<b>Item No.05 :</b> Providing following type of Modular type accessories mounted with PVC/ metallic box, single mounting base frame covered with textured/ metallic front plate, modules erected with necessary connection as desired by Engineer In charge <b>32A Dual Pole Modular MCB Switch, Cat. II</b>	5	Each	228.00	1140.00
<b>Item No 06 : Point wiring Arrangement:</b> Design, supply, erection, testing and commissioning of suitable general arrangement of point wiring for pump house. Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires upto 10 mtr length, in below type of pipe erected with 6A Modular types switch / bell push & accessories and earth continuity of following type, erected on PVC /Metallic /Wooden box, single mounting base frame covered with textured / metallic / white front plate module serected on / in wall / ceiling as per pipe erected, with necessary Lamp holder / ceiling rose / H.D. Connector as directed. (a)with medium class Rigid PVC pipe and accessories erected flushed on wall / ceiling complete	90	Pt.	445.00	40050.00
<b>Item No 07 : Switch Board :</b> Providing & erecting Switch board for Computer or electric apparatus consisting of following items in single board erected on PVC / Metal/Wooden board concealed/open with 3 mm thick PC (Polycarbonate) / Acrylic sheet erected as directed For Modular Type Accessories Cat. III 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug	16	Each	1122.00	17952.00

Discription	Qty	Unit	Rate	Amount
<b>Item No 08 : Point Wiring</b> Mains with 1.1kV grade FRLS PVC insulated ISI marked stranded copper conductor wire in following type of pipe to be erected in/ on wall /ceiling with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. With medium class Rigid PVC pipe and accessories a. 2 wire 1.5 sq.mm (with 2.5 sq.mm earth wire)	275	RMT	62.00	17050.00
<b>Item no.09 :</b> Supplying and Erection of approved make self priming domestic monoblock water pump with 1.5 Hp motor suitable for operation on 230 volt 50c/s, AC supply with metallic flange and MS impeller delivery of following discharge (A) 44 LPM at 32mt head suitable for 25mm dia delivery, Cat-III				
For PAC Solution	1	No.	9222.00	9222.00
<b>Item No. 10 :</b> Starter Panel: DOL / Star Delta starter suitable for local & remote pump control application consisting of MPCB, overload relay and contactors as per Type II coordination including digital voltmeter, analogue ammeter with selector switch, run hour meter, required protective relays & control accessories.				
Panel Board for motor At various place in WTP				
D.O.L upto 7.5 HP (For Monoset (Backwash)Submersible pump of 5.5 HP-01 motor)	1	No.	8383.00	8383.00
D.O.L upto 3.0 HP(For Monoblock(PAC) pump of 1.5 HP-01 motor,CLR Bridge 03 Motor,flash mixer 01 motor, Alum Stirrer 02 motor)	5	No.	6924.00	34620.00
<b>Item No.11:</b> Monoset sub. pump 3 phase 400/440 volt, 50 c/s. A.C. Supply & 2900 RPM , as per IS 14220 MOC : Casing: CI-FG260, Impeller : Bronze & Shaft : SS:41 (Rates exclusive of GST) For backwash tank filling pump Category: SM-2.2,5HP, Head-24 mt., Dis.-360 LPM				
For Backwash tank filling	1	No	15552.00	15552.00
<b>Item No.12:</b> Chemical Dosing Pump: incl. Tank: Providing and installing chemical dosing metering pump model V-12 with PP head and flow of suitable size	1	No	12090.00	12090.00
<b>Item No.13 :</b> Loss of Head Indicator: Providing and fixing LOH Indicator of approved make	2	No	4062.00	8124.00
<b>Item No.14 : Weighing Machine :</b> [A] Providing Supplying 500 Kg capacity weighing machine at destination	1	No	9623.00	9623.00
<b>Item No.15 : Laboratory Instruments: (Bhukhi &amp; Pipaliya)</b>				
<b>(A)Digital Ph Meter:</b> Providing and supplying microprocessor based digital pocket PH tester.	3	No	7217.00	21651.00
<b>(B)Digital TDS Meter:</b> Providing and supplying microprocessor based digital pocket TDS tester.	3	No	7506.00	22518.00
<b>[C]Chloroscope:</b> Providing & supplying Chloroscope 0.2 ppm including testing materials.	3	No	866.00	2598.00
<b>(D)Fluoride Kit:</b> Providing and supplying fluoride spot test kit	3	No	2406.00	7218.00
<b>Item No.16: M.S Ladder(without safety cage)</b> Providing and fixing 50 cm wide M S Ladder fabricated from M S Flats 10 mm*75 mm with 20 mm dia steel bar steps in double rows @ 30 cm C/C. The include stays of 10 mm* 50 mm flats fixed at 3 meter C/C with welding anchoring and 3 coats anticorrosive paint. i)For WTP Backwash activity ii)For Clarifloculator and filter bed maintainance activity	20	Rmt	2950.00	59000.00
<b>Item No. 17 :</b> Storage Tanks 5000 Litres with ISI Mark (With Outside Black Colour & Inside Lining) for PAC Solution Arrangement at Bhukhi HW	1	No	45096.00	45096.00
<b>Item No.18 :</b> Labour charges for repairing of Sluice valve/ Reflux valve including materials, labours and testing etc. complete 300 mm Dia				
(1) Replacing of glan flange only	8	No	123.00	984.00
(2) Replacing of glan packing only	8	No	135.00	1080.00
(3) Replacing of S.S spindal only	8	No	1937.00	15496.00
<b>Item No. 19</b> Welding in all position with required number runs for MS pipe internally and/or externally including gauging wherever necessary fixing appurtenances and other accessoried in connection with pipe laying work as per specifications.	10	Rmt	681.00	6810.00
(i) Various Valve Handle for Filter bed Operation and pipe line and other sections				
<b>Item No.20</b> Providing ,Installing , commisioning of only chain((01 T Manually Operated) block with triple gear arrangement, lifting hook, load chain & hand chain & locking device etc. As per In Charge Engineer Instruction.	1	No	5760.00	5760.00
<b>Item No.21</b> Painting two coats (excluding priming coat) on new steel andother metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an evenshade including cleaning the surface of all dirt, dust andother foreign matter (ISMB 200*100*5 mm) (Area=32.30 Sqcm)(l=865cm) Removing Rust, Brushing, Providing Lubricant and colour to Chlorine room girder and Pully block As per In Charge Engineer Instruction.	2.8	Sq.Mt	95.63	267.76
<b>Item No.22</b> Labour Charges for cleaning of sump/GI cistem including cleaning and removing algaecalcinators, sludge, dirt deposition from bottom and as well as from wall of container, disinfection by bleaching powder with all necessary tools and plants. Labour and cost of disinfectant etc complete. (Simillar Item : Cleaning of Clarifloculator of Capacity of 17,00,000 Liter at Bhukhi HW)	1	No	15932.00	15932.00
			<b>Total</b>	<b>736724.76</b>
			<b>Say</b>	<b>736725.00</b>

Dy.Exe.Eng  
P.H.S.Sub Div  
Dhoraji