Bedgetary Offer Notice No. 02 For 2021-2022

GOVERNMENT OF MAHARASHTRA

Executive Engineer Mechanical Divisional Unit, Jalgaon

WATER RESOURCES DEPARTMENT

Name of Work :- Supplying, Erecting, Testing & Commissioning of Below Electrical Items of Control Pannels in Pump House for Varangaon Talwel Lift Irrigation Scheme Stage I & Stage II, Varangaon Dist. Jalgaon Budgetary offer for the above work are invited by The Executive Engineer, Mechanical Divisional Unit, Jalgaon. The sealed Bedgetary Offer should reach to this office on or before 31/08/2021 up to 14.00 hrs.

Vā	Varangaon - Talwel Lift Irrigation Scheme Stage 1 Pump House, Hatnur, Tal. Bhusawal, Dist. Jalgaon. -: <u>Work List</u> :-					
Sr.No.	Items of work (Grouped under Sub-heads or Sub-works of estimate.) Description of Work	Qty.	Unit	Total Rate Rs.		
1	Repairs and Maintenance of various electical equipments in the Pump House at Varangaon - Talwel Lift Irrigation Scheme Stage 1, Hatnur, Tal. Bhusawal, Dist. Jalgaon.					
	Overhauling of 6.6 kV, 1800 kW, 3ph, 50Hz H.T. Motors at Varangaon - Talwel Lift Irrigation Scheme Stage 1, Hatnur, Tal Bhusawal, Dist. Jalgaon.					
	Item No. -1 Dismanteling of segregation box cover plate, Checking of IR values of motor windings, checking of IR values of HT cable, replacement burnt lugs, nut bolt, bimetal washers, Replacement of gaskets, cleaning connection by ctc.	5	Nos.			
	Item No. – 2 Checking, Testing and Cleaning all equipment CT'S, PT'S, LA'S, insulating part cleaning by CTS Chemical, heat treatment by Heating Halogen Lamp for developing megger value. Cleaning all copper contact. After maintenance applying petroleum jelly to all copper contact, busbars, replacement of necessary hardware.	5	Nos.			
	Item No. -3 :- Dismantling side cover of Drive End bearing & removing of old burned/un-usable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up.	5	Nos.			
	Item No. -4 Dismantling side cover of Non Drive End bearing & removing of old burned/unusable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up.	5	Nos.			
	Item No. -5 Decouple Motor with pump stool, connect power and control cable for No -Load Trial, check freeness, balance and measure actual current. Program setting of motor protection relay. Checking value of motor current.	5	Nos.			
	Item No. -6 Couple motor coupling with pump for load trial. check freeness, count rotation, balance and measure actual current.	5	Nos.			
	Item No. -7 Checking, cleaning connections, calibrating and testing HT Motor winding RTD, bearing RTD, properly re-installed/re-connect and checking, repairing RTD related control circuit with respect to tripping of 5 Nos. HT Motors individually. (1 Motor = 1 job)	5	Job			
	Item No. -8 Providing heat treatment by Heating Halogen Lamp for developing megger value of all 5 Nos.HT motor's., Disconnect the power cable's from motor and HT motor feeder panel's too. And Checking power cable IR value from Motor feeder panel's to HT motor. after checking if results are satisfactory then reconnect all the 5 Nos. power cable to HT motor side and HT motor feeder panel's side properly without any loose connections at site.	5	Job			

5	Job	
5	Job	
1	Job	
4	Nos.	
4	Nos.	
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Item No. – 14 Checking of various contactors and timers in control circuit and replacing faulty of HT Feeder Panel's.	g if found 1	Job	
Item No. – 15 Checking, Testing and replacing if found blown out 7.2 kV, 10 amps PT replacement of burnt copper PT clamps.	fuse and 1	Job	
Item No. – 16 Checking, Testing and replacing if found blown out 7.2 kV, 140 amps PT replacement of burnt copper PT clamps.	Γ fuse and 1	Job	
Testing of all relays on HT/LT panel by secondary injection kit, S	Supplying		
4 and replacing Faulty relays at Varangaon - Talwel Lift Irrigation Stage - 1, Hatnur, Tal. Bhusawal, Dist. Jalgaon.			
Item No. – 1 Testing of Motor protection relay by secondary injection kit of HT Feed etc.	ler panel's 1	Job.	
Item No. – 2 Testing of Under voltage relay by secondary injection kit of HT Feeder pa	inel's etc. 1	Job.	
Item No. – 3 Testing of Trip circuit supervision relay by secondary injection kit of H panel's etc.	IT Feeder 1	Job.	
Item No. 4 Testing of Tripping relay by secondary injection kit of HT Feeder panel's of	etc. 1	Job.	
Item No. 5 Testing of Overcurrent and Earth fault relay by secondary injection k Feeder panel's etc.	xit of HT 1	Job.	
Item No. 6 Checking and testing of control wiring of Incomer 1 & 2, Bus couple feeders and capacitor feeder and replacement of damaged wiring term terminals, control contactors and Timers. Checking of Logic of the Moto and Incomer feeders, Bus Coupler, Capcitor feeders and trial and testing control circuit of all HT Feeder panel's with operations of all 5 Nos. HT n NO-LOAD and On FULL-LOAD condition upto satisafactorily results at second control circuit.	ninals,CT or feeders 1 g of logic notor's on	Job.	
Item No. 7 Replacement of Motor protection relays if found faulty.	2	Nos.	
Item No. 8 Replacement of Under Voltage relays if found faulty.	2	Nos.	
Item No.9 Repacement of Trip Circuit Supervision relays if found faulty.	2	Nos.	
Item No. 10 Replacement of Tripping relays if found faulty. Item No. 11	2	Nos.	
Replacement of Overcurrent and Earth fault relay if found faulty. Checking, Servicing, Repairing, Trial, Testing and commissionin	2 of all	Nos.	
existing Vaccume Circuit Breaker's of HT feeder panel's at Vara Talwel Lift Irrigation Scheme Stage - 1, Hatnur, Tal. Bhusawal, Dist.	angaon -		
Item No. – 1 Checking, Servicing, Repairing, Trial, Testing and comssioning of existing Vaccum Circuit Breaker's 630A to1250A, operating with respect to concircuit of respective HT Motor feeder panel's as well as Control and Relincluding vaccume bottle's checking, replacing if found fauty. Checking, spring charging motor if found faulty, operation perfoming of Vaccum Breaker's manually as well as from respective panel without failure. Or repairing and replacing the damged wiring if found faulty of Vaccum Breaker. Do the neccessary rquired setting's, changes for performing Clot Tripping operation properly with respect to time on NO-LOAD and LOAD condition upto satisafactorily results at site etc.	trol logic lay panel, replacing m Circuit 1 Checking, m Circuit osing and	Job.	
6 Checking and testing HT capacitor cubicle at Varangaon - Tal Irrigation Scheme Stage - 1, Hatnur, Tal. Bhusawal, Dist. Jalgaon.	lwel Lift		

Item No. — 1 Checking and testing of HT capacitor cubicle, checking and replacing existing fises if found blown out or burned, checking capacitor, cleaming isolator contacts by polish paper and TS Chemical and After maintenance applying pertoleum jelly or electrical contact grease to all copper contact, busburs, replacement of necessary hardware. Checking of emergancy push button fround faulty then replacing it, checking operations need to operate freely. Repairs of LT. Panel at Varangaon – Talwel Lift Irrigation Scheme Stage I, Hamur. Tal. Bhusawal, Dist. Jalgaon. Item No. — 1: * Checking, and testing of actuator starters on L.T. Panel Item No. — 2: * Checking of 52 angs, 63 angs and 100 angs switch fuse units and replacing If IR.C. fises if found blown out or burn, rotary handles of switch fose unit if found faulty or in non working condition. Item No. — 3: * Checking and teighting of Bus bars of L.T. Panel, Replacing danged gaskets of Doors of Panels, etc. Overhaulting of remote control panel and replacement of announciators on RCP at Varangaon – Talwel Lift Irrigation Scheme Stage I, Hatnur, Tal. Bhusawal, Dist. Jalgaon. Item No. — 1 Checking and testing of rotary switches, push huttons, indicating lamps of Remote control panel. Item No. — 2 Checking and testing of rotary switches, push huttons, indicating lamps of Remote control panel. Item No. — 2 Checking and testing of control circuit of remote control panel, logic of control circuit etc. Item No. — 3 Replacement of non working condition announciators if found, which is mounted on Remote Control Panel. Overhaulting and respirs of BFV actuator & its starter at Varangaon – Talwel Lift Irrigation Scheme Stage I, Hatnur, Tal Bhusawal, Dist. Jalgaon. Item No. — 3 Checking and kepting of actuator motor no. 1 to 5, replacement burnt logs, must bolt, bimetal washers, cleaning connection by etc. Item No. — 3 Checking and Replacement of damaged and non working Push buttons and indicating lumps and reprinting damaged wiring of actuator motor no. 1 to 5					
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Hartuur, Tal. Bhusawal, Dist. Jalgaon.		button found faulty then replacing it. checking operations need to operate freely.			
Hartuur, Tal. Bhusawal, Dist. Jalgaon.		Repairs of L.T. Panel at Varangaon - Talwel Lift Irrigation Scheme Stage 1.			
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fisse unit if found faulty or in non working condition. Item No. – 3 :- Replacement of various terminal blocks if found damage and power cables of 2.5 sq.mm, 16 sq.mm, 16 sq.mm if found damged etc. Item No. – 4 :- Cleaning and tighting of Bus bars of L.T. Panel, Replacing damged gaskets of Doors of Panels, etc. Overhauling of remote control panel and replacement of announciators on RCP at Varangaon - Talwel Lift Irrigation Scheme Stage 1, Hatnur, Tal. Bhusawal, Dist. Jalgaon. Item No. – 1 Checking and testing of rotary switches, push buttons, indicating lamps of Remote control panel. Item No. – 2 Checking and repairing of control circuit of remote control panel, logic of control circuit etc. Item No. – 3 Replacement of non working condition announciators if found, which is mounted on Remote Control Panel. Overhauling and repairs of BFV actuator & its starter at Varangaon - Talwel Lift Irrigation Scheme Stage 1, Hatnur, Tal Bhusawal, Dist. Jalgaon. Item No. – 1 Checking cable between L.T. panel and BFV actuator no. 1 to 5, replacement burnt lugs, and both, bimetal washers, cleaning connection by etc. Item No. – 2 Checking various contactors and limit switches in BFV actuators no. 1 to 5. Nos. replacing if found faulty. Item No. – 3 Checking and greasing, servicing of gear mechanism of BFV actuators no. 1 to 5. Nos. Checking and Replacement of damaged and non working Push buttons and indicating lamps and repairing damaged wiring of actuator motor no. 1 to 5. Checking and Replacement of damaged and non working Push buttons and indicating lamps and repairing damaged wiring of actuator motor no. 1 to 5. Checking and Replacement of damaged and non working Push buttons and indicating lamps and repairing damaged wiring of actuator motor no. 1 to 5. Checking and Replacement of damaged and non working Push buttons and indicating lamps and repairing damaged wiring of actuator motor no. 1 to 5. Battery Charger Panel and D.C. Supply system to HT Feeder panels and control system etc. Item No. – 3 Chec					
Item No. — 3 : Replacement of various terminal blocks if found damage and power cables of 2.5 sq.mm, 6 sq.mm, 10 sq.mm, 16 sq.mm if found damged etc. Item No. — 4 : Cleaning and tighting of Bus bars of L.T. Panel, Replacing damged gaskets of Doors of Panels, etc. Overhauling of remote control panel and replacement of announciators on RCP at Varangaon - Talwel Lift Irrigation Scheme Stage 1, Hatnur, Tal. Bhusawal, Dist. Jalgaon. Item No. — 1 Checking and repairing of control circuit of remote control panel, logic of control circuit etc Item No. — 2 Checking and repairing of control circuit of remote control panel, logic of control circuit etc Item No. — 3 Replacement of non working condition announciators if found, which is mounted on Remote Control Panel. Overhauling and repairs of BFV actuator & its starter at Varangaon - Talwel Lift Irrigation Scheme Stage 1, Hatnur, Tal Bhusawal, Dist. Jalgaon. Item No. — 1 Checking cable between L.T. panel and BFV actuator no. 1 to 5, replacement burnt lugs, and bolt, bimetal washers, cleaning connection by ctc. Item No. — 2 Checking various contactors and limit switches in BFV actuator no. 1 to 5. and replacing if found faulty. Item No. — 3 Checking and greasing, servicing of gear mechanism of BFV actuators no. 1 to 5. Item No. — 4 Checking and servicing of actuator motor no. 1 to 5, rewinding if necessary etc. Item No. — 5 Checking and Replacement of damaged and non working Push buttons and indicating lamps and repairing damaged wiring of actuator motor no. 1 to 5. Battery Charger Panel and D.C. Supply system to HT Feeder panels and control system etc. at Varangaon - Talwel Lift Irrigation Scheme Stage 1, Hatnur, Tal. Bhusawal, Dist. Jalgaon. Item No. — 1 Checking pravity of Batteries, leveling of distilled water upto top up requirment, Checking D.C. supply cable from batteries to Battery charging panel. Replacing D.C. Supply from batteries to Battery charging panel. Replacing D.C. Supply from batteries to Battery c		and replacing H.R.C. fuses if found blown out or burn, rotary handels of switch	1	Job.	
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Sr.No. Description of Work Repairs and Maintenance of various electical equipments in the Pump House at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon. Overhauling of 6.6 kV, 1200 kW, 3ph, 50Hz H.T. Motors at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon. Item No. – 1 Dismanteling of segregation box cover plate, Checking of IR values of motor windings, checking of IR values of HT cable, replacement burnt lugs, nut bolt, bimetal washers, Replacement of gaskets, cleaning connection by ctc. Item No. – 2 Checking, Testing and Cleaning all equipment CT'S, PT'S, LA'S, insulating part cleaning by CTS Chemical, heat treatment by Heating Halogen Lamp for developing megger value. Cleaning all copper contact. After maintenance applying petroleum jelly to all copper contact, bushars, replacement of necessary hardware. Item No. – 3: Dismantling side cover of Drive End bearing & removing of old burned/un-usable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up. Item No. – 4 Dismantling side cover of Non Drive End bearing & removing of old burned/un-usable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up. Item No. – 5 Decouple Motor with pump stool, connect power and control cable for No -Load Trial, check freeness, balance and measure actual current. Program setting of motor protection relay. Checking value of motor current. Item No. – 6 Couple motor coupling with pump for load trial, check freeness, count rotation, balance and measure actual current. Item No. – 7 Checking, cleaning connections, calibrating and testing HT Motor winding RTD, bearing RTD, properly re-installed/re-connect and checking, repairing RTD related control circuit with respect to tripping of 5 Nos. HT motor side and HT motor feeder panel's too. And Checking power		avvai,	Tai. Dilu	rangaon - Talwel Lift Irrigation Scheme Stage 2 Pump House, Manpur, Items of work (Grouped under Sub-heads or Sub-works of estimate.)	
1 at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon. Overhauling of 6.6 kV, 1200 kW, 3ph, 50Hz H.T. Motors at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon. Item No. — 1 Dismanteling of segregation box cover plate, Checking of IR values of motor windings, checking of IR values of HT cable, replacement burnt lugs, nut bolt, bimetal washers, Replacement of gaskets, cleaning connection by cte. Item No. — 2 Checking, Testing and Cleaning all equipment CT'S, PT'S, LA'S, insulating part cleaning by CTS Chemical, heat treatment by Heating Halogen Lamp for developing megger value Cleaning all copper contact. After maintenance applying petroleum jelly to all copper contact, busbars, replacement of necessary hardware. Item No. — 3: Dismantling side cover of Drive End bearing & removing of old burned/un-usable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up. Item No. — 4 Dismantling side cover of Non Drive End bearing & removing of old burned/un-usable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up. Item No. — 5 Decouple Motor with pump stool, connect power and control cable for No -Load Trial, check freeness, balance and measure actual current. Program setting of motor protection relay. Checking value of motor current. Item No. — 6 Couple motor coupling with pump for load trial. check freeness, count rotation, balance and measure actual current. Item No. — 7 Checking, cleaning connections, calibrating and testing HT Motor winding RTD, bearing RTD, properly re-installed/re-connect and checking, repairing RTD related control circuit with respect to tripping of 5 Nos. HT Motors individually. (I Motor = 1 job) Item No. — 8 Providing heat treatment by Heating Halogen Lamp for developing megger value of all 5 Nos.HT motor's.,	Total Rate Rs.	Unit	Qty.		
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Dismanteling of segregation box cover plate, Checking of IR values of motor windings, checking of IR values of HT cable, replacement burnt lugs, nut bolt, bimetal washers, Replacement of gaskets, cleaning connection by etc. Item No. — 2 Checking, Testing and Cleaning all equipment CT'S, PT'S, LA'S, insulating part cleaning by CTS Chemical, heat treatment by Heating Halogen Lamp for developing megger value. Cleaning all copper contact. After maintenance applying petroleum jelly to all copper contact, busbars, replacement of necessary hardware. Item No. — 3: Dismantling side cover of Drive End bearing & removing of old burned/un-usable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up. Item No. — 4 Dismantling side cover of Non Drive End bearing & removing of old burned/un-usable Grease and cleaning it by kerosene. Applying Grease to bearing and bearing pocket, fixing bearing cover and filling grease by pressure Gun up to Top up. Item No. — 5 Decouple Motor with pump stool, connect power and control cable for No -Load Trial, check freeness, balance and measure actual current. Program setting of motor protection relay. Checking value of motor current. Item No. — 6 Couple motor coupling with pump for load trial. check freeness, count rotation, balance and measure actual current. Item No. — 7 Checking, cleaning connections, calibrating and testing HT Motor winding RTD, bearing RTD, properly re-installed/re-connect and checking, repairing RTD related control circuit with respect to tripping of 5 Nos. HT Motors individually. Item No. — 8 Providing heat treatment by Heating Halogen Lamp for developing megger value of all 5 Nos.HT motor's., Disconnect the power cable IR value from Motor feeder panel's to Am Checking power cable IR value from Motor feeder panel's to Am Checking power cable and HT motor feeder panel's to Am Checking power cable that motor feeder panel's side properly without any loose connections a					
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50Hz Panels Replacement of damaged or non working Indicating lamps with new					
15 of the range of the representation of the range of the			_	50Hz Panels. Replacement of damaged or non working Indicating lamps with new	
LED Indicating lamps as per existing colour indication. If at the time of checking		Jop	5		
and Testing in case any abnormalities oberserved then need to submit the					
Inspection report.					
Item No. – 2					
Replacement of Damaged or Non working Ammeters of range 0-1800 A of suitable					
CTR (CT Ratio) by new Suitable range Analog or Digital Ammeter. Checking, 5 Job		Job	5		
Testing of CT's of FCMA panel's Ammeter and Checking the Current Drawn.					

3	HT Panel's at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon.			
	Calibration of 6.6 KV HT Panel, indicating meters, protection CT's & PT's			
	and replacement faulty indicating lamps, HRC Fuses in H.T. Panel etc. at			
	Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal,			
	Dist. Jalgaon.			
	Item No. – 1			
	Cleaning of all HT feeder Panels with blower and spray the CTC on contact of	1	Job	
	termination box of HT feeder panel's.			
	Item No. – 2			
	Replacement of damaged or non-working ammeters on HT Panel with new Analog			
	or Digital ammeter and will suitable to existing Ampere Range with respect to CTR	4	Nos.	
	(CT Ratio).			
	Item No. – 3			
		4	Na	
	Replacement of damaged or non-working voltmeters on HT Panel with new	4	Nos.	
	Analog or Digital Voltmeter and will suitable to existing Voltage Range.			
	Item No. – 4			
	Checking, testing and Replacing if found faulty Current Transformer of suitable	1	Job	
	range of existing supply system in H.T. Panel and repairing or replacement of	_	300	
	damaged wiring as per site condition.			
	Item No. – 5			
	Checking, testing and Replacing if found faulty Potential Transformers in H.T.	1	Job	
	Panel and repairing or replacement of damaged wiring as per site condition.			
	Item No. – 6			
	Replacement of faulty Indicating lamps with LED indicating lamps suitable to	1	Job	
		1	100	
	existing indicating colours.			
	Item No. – 7			
	Replacement of blown out H.R.C. fuses of various ratings in Motor feeder panel's,	1	Job	
	Incomer Panel's, Bus coupler panel, Capacitor feeder Panel's of HT Feeder's and	_	100	
	Remote control Panel.			
	Item No. – 8			
	Checking and Calibration of kWH meter and replacing if found faulty of HT feeder	1	Job	
	panel.			
	Item No. – 9			
	Checking and Calibration of kVAR meter and replacing if found faulty of HT	1	Job	
	feeder panel.	_	100	
	Item No. – 10			
	Checking and Calibration of Ammeter and replacing if found faulty of HT feeder	1	Job	
		1	100	
	panel.			
	Item No. – 11			
	Checking and Calibration of frequency meter and replacing if found faulty of HT	1	Job	
	feeder panel.			
	Item No. – 12			
	Checking and Calibration of Power factor meter and replacing if found faulty of	1	Job	
	HT feeder panel.			
	Item No. – 13	-		
	Checking and Calibration of Voltmeter meter and replacing if found faulty of HT	1	Job	
	feeder panel.			
	Item No. – 14			
	Checking of various contactors and timers in control circuit and replacing if found	1	Job	
		1	100	
	faulty of HT Feeder Panel's.		1	
	Item No. – 15	_		
	Checking, Testing and replacing if found blown out 7.2 kV, 10 amps PT fuse and	1	Job	
	replacement of burnt copper PT clamps.			
	Item No. – 16			
	Checking, Testing and replacing if found blown out 7.2 kV, 80 amps PT fuse and	1	Job	
	replacement of burnt copper PT clamps.			
	Testing of all relays on HT/LT panel by secondary injection kit, Supplying			
4	and replacing Faulty relays at Varangaon - Talwel Lift Irrigation Scheme			
-	Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon.			
	Item No. – 1			
	HeIII NO. — I			
	Testing of Motor protection relay by secondary injection kit of HT Feeder panel's	1	Job.	

Item No. – 2 Testing of Under voltage relay by secondary injection kit of HT Feeder panel's etc.	1	Job.	
Item No. – 3 Testing of Trip circuit supervision relay by secondary injection kit of HT Feeder panel's etc.	1	Job.	
Item No. 4 Testing of Tripping relay by secondary injection kit of HT Feeder panel's etc.	1	Job.	
Item No. 5 Testing of Overcurrent and Earth fault relay by secondary injection kit of HT	1	Job.	
Feeder panel's etc. Item No. 6			
Checking and testing of control wiring of Incomer 1 & 2, Bus coupler, Motor feeders and capacitor feeder and replacement of damaged wiring terminals, CT terminals, control contactors and Timers. Checking of Logic of the Motor feeders and Incomer feeders, Bus Coupler, Capcitor feeders and trial and testing of logic control circuit of all HT Feeder panel's with operations of all 5 Nos. HT motor's on NO-LOAD and On FULL-LOAD condition upto satisafactorily results at site etc.	1	Job.	
Item No. 7 Replacement of Motor protection relays if found faulty.	2	Nos.	
Item No. 8 Replacement of Under Voltage relays if found faulty.	2	Nos.	
Item No.9 Repacement of Trip Circuit Supervision relays if found faulty.	2	Nos.	
Item No. 10 Replacement of Tripping relays if found faulty.	2	Nos.	
Item No. 11 Replacement of Overcurrent and Earth fault relay if found faulty.	2	Nos.	
Checking, Servicing, Repairing, Trial, Testing and commissioning of all existing Vaccume Circuit Breaker's of HT feeder panel's at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon.			
Item No. – 1 Checking, Servicing, Repairing, Trial, Testing and comssioning of existing 10 Nos. Vaccum Circuit Breaker's 630A to 1250A, operating with respect to control logic circuit of respective HT Motor feeder panel's as wel as Control and Relay panel, including vaccume bottle's checking, replacing if found fauty. Checking, replacing spring charging motor if found faulty, operation perfoming of Vaccum Circuit Breaker's manually as wel as from respective panel without failure. Checking, repairing and replacing the damged wiring if found faulty of Vaccum Circuit Breaker. Do the neccessary rquired setting's, changes for performing Closing and Tripping operation properly with respect to time on NO-LOAD and FULL - LOAD condition upto satisafactorily results at site etc.	1	Job.	
Checking and testing HT capacitor cubicle at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon.			
Item No. – 1 Checking and testing of HT capacitor cubicle, checking and replacing existing fuses if found blown out or burned, checking capacitor, cleaning isolator contacts by polish paper and CTS Chemical and After maintenance applying petroleum jelly	1	Job.	
or electrical contact grease to all copper contact, busbars, replacement of necessary hardware. Checking of emergancy push button, if emergancy push button found faulty then replacing it. checking operations need to operate freely.			
necessary hardware. Checking of emergancy push button, if emergancy push			

	Item No. -2 :- Checking of 32 amps, 63 amps and 100 amps switch fuse units and replacing H.R.C. fuses if found blown out or burn, rotary handels of switch fuse unit if found faulty or in non working condition.		Job.	
	Item No. -3 :- Replacement of various terminal blocks if found damage and power cables of 2.5 sq.mm, 6 sq.mm, 10 sq.mm, 16 sq.mm if found damged etc.	1	Job.	
	Item No. -4 :- Cleaning and tighting of Bus bars of L.T. Panel, Replacing damged gaskets of Doors of Panels, etc.	1	Job.	
	Overhauling of remote control panel and replacement of announciators on			
8	RCP at Varangaon - Talwel Lift Irrigation Scheme Stage 2, Manpur, Tal			
	Bhusawal, Dist. Jalgaon.			
	Item No. – 1			
	Checking and testing of rotary switches, push buttons, indicating lamps of Remote control panel.	1	Job.	
	Item No. – 2			
	Checking and repairing of control circuit of remote control panel, logic of control	1	Job.	
	circuit etc			
	Item No. – 3			
	Replacement of non working condition announciators if found, which is mounted on Remote Control Panel.	1	Job.	
	Overhauling and repairs of BFV actuator & its starter at Varangaon - Talwel			
9	Lift Irrigation Scheme Stage 2, Manpur, Tal Bhusawal, Dist. Jalgaon.			
	Item No. – 1			
	Checking cable between L.T. panel and BFV actuator no. 1 to 5, replacement burnt	5	Nos.	
	lugs ,nut bolt, bimetal washers, cleaning connection by ctc.			
	Item No. – 2			
	Checking various contactors and limit switches in BFV actuator no. 1 to 5. and	5	Nos.	
	replacing if found faulty.			
	Item No. – 3	_	Nos	
	Checking and greasing, servicing of gear mechanism of BFV actuators no. 1 to 5	5	Nos.	
	Item No. – 4			
	Checking and servicing of actuator motor no. 1 to 5, rewinding if necessary etc	1	Job.	
	Item No. -5 Checking and Replacement of damaged and non working Push buttons and		l .	
	indicating lamps and repairing damaged wiring of actuator motor no. 1 to 5.	1	Job.	
	Battery Charger Panel and D.C. Supply system to HT Feeder panels and			
10	control system etc. at Varangaon - Talwel Lift Irrigation Scheme Stage 2,			
	Manpur, Tal Bhusawal, Dist. Jalgaon.			
	Item No. – 1			
	Checking, repairing, cleaning by ctc chemical, reaplicing the blown out fuses,	1	Job.	
	testing and commissioning of Battery Charger Panel and D.C. Supply system to HT			
	Feeder panels and control system etc. Item No. – 2			
	Checking gravity of Batteries, leveling of distilled water upto top up requirment, Checking D.C. supply cable from batteries to Battery charging panel. Replacing	1	Job.	
	D.C. Supply from batteries to Battery charging panel if found faulty.			
	Item No. – 3			
	Replacing existing batteries of 55 cells if found faulty.	1	Set.	
	replacing existing batteries of 33 cens if found faulty.			

Note :- 1) The above rate quoted should be inclusive of all taxes applicable but must be mention seperately, loading, unloadi

- 2) Rates called for estimation purpose only.
- 3) details notice are available on www.mahayantriki.gov.in

No. MDUJ / TS / 741/2021 Office of The Executive Engineer Mechanical Divisional Unit Jalgaon. Date :- 24 /08/2021 Email Id - eessdc@gmail.com Tel. No. 0257-2260770 SD/-Executive Engineer, Mechanical Divisional Unit, Jalgaon.