E-Mail – tembhumeunit@gmail.com जा.क्र./टेंउसिंयांवविप/लेशा-४/निविदा/ ११६८ /२०१६ Phone – (02164) 271142 कार्यकारी अभियंता, टेंभु उपसा सिंचन यांत्रिकी व विद्युत पथक, ओगलेवाडी, कराड यांचे कार्यालय दिनांक:- १८ / ०७ /२०१६

प्रति,

मा. उपसंचालक (माहिती), विभागीय माहिती कार्यालय, मध्यवर्ती प्रशासिकय इमारत, पुणे स्टेशन, पुणे.

विषय :- जाहीरात प्रसिध्दीस देणेबाबत.

महोदय,

सोबत जोडलेली जाहिरात वृत्तपत्रात प्रसिध्द करण्यासाठी पाठविण्यात येत आहे. कृपया ती नेमून दिलेल्या तारखेला किंवा तत्पूर्वी प्रसिध्दीस द्यावी, ही विनंती.

१) कार्यालयाचे नाव, पत्ता व दुरध्वनी क्रमांक : कार्यकारी अभियंता, टेंभु उपसा सिंचन यांत्रिकी व विद्युत पथक,

ओगलेवाडी, कराड पिन :- ४१५१०५, फोन नं : (०२१६४) २७११४२.

२) जाहीरात प्रसिध्द होण्याचा अंतिम दिनांक : दिनांक ३०/०७/२०१६ अथवा तत्पुर्वी

३) प्रसिध्दी कोणत्या स्तरावर आवश्यक : जिल्हा स्तरावर (सातारा Region) (प्रादेशिक/जिल्हा पातळीवर)

४) जाहीरातीचे बील कोणाच्या नावे पाठवावयाचे : कार्यकारी अभियंता, टेंभु उपसा सिंचन यांत्रिकी व विद्युत पथक, ओगलेवाडी, कराड

५) जाहीरात किती वृत्तपत्रात प्रसिध्द करावयाची : एक "क" वर्ग मराठी दैनिक व एका व किती वेळा. साप्ताहिक वृत्तपत्रात एकाचवेळी फक्त एकवेळा. (कमीत कमी जागेत.)

६) किती वेळा जाहिरात प्रसिध्द करावयाची आहे. : एकवेळा.

आपला विश्वासू

सोबत:- जाहिरातीच्या ४ प्रती.

कार्यकारी अभियंता टेंभु उपसा सिंचन यांत्रिकी व विद्युत पथक, ओगलेवाडी, कराड

प्रतः-मा.अधीक्षक अभियंता, यांत्रिकी मंडळ ,कोल्हापूर यांना माहीतीसाठी व वेबसाईट प्रसिध्दीसाठी सविनय सादर.

जलसंपदा विभाग (यांत्रिकी) अंदाजपत्रकीय दरपत्रके मागविण्यासाठीची दरपत्रके

कार्यकारी अभियंता टेंभू उपसा सिंचन यांत्रिकी व विद्युत पथक, कोयना सायडींग, ओगलेवाडी, कराड, ४१५१०५ (दुरध्वनी क्र.२७११४२) हे खाली दर्शविलेल्या कामाकरिता नोंदणीकृत यांत्रिकी कंत्राटदाराकडून व मुळ साहित्य निर्मात्यांकडून कार्यालयीन कामासाठी सर्व कर समावेशक अंदाजपत्रकीय दरपत्रके मागविण्यात येत आहेत. संबंधीतांनी हि जाहिरात प्रसिद्ध झाल्यापासून अंदाजपत्रकीय दरपत्रके दि. ३०/०७/२०१६ पासून १०/०८/२०१६ पर्यंत कार्यालयीन वेळेत सादर करावीत. सदर कामाच्या बाबीचा सविस्तर तपशील www.mahayantriki.gov.in या वेबसाईट वर उपलब्ध आहे.

अ.क्र	तपशील	परिमाण	दर	रुपये
१.	टेंभू उपसा सिंचन टप्पा क्र. ४, वेजेगाव ता. खानापूर जि. सांगली येथील ६.६ के. व्ही. एच. टी.	१ नग		
	पॅनेलची ४ पंपासाठी उभारणी, कार्यान्वितीकरण, पुर्नस्थापना इ. करणेबाबत			
२	टेंभू उपसा सिंचन टप्पा क्र . ५, भूड ता. खानापूर जि. सांगली येथील ६.६ के. व्ही. एच. टी.	१ नग		
	पॅनेलची ५ पंपासाठी उभारणी, कार्यान्वितीकरण, पुर्नस्थापना इ. करणेबाबत			

वरील कामासाठी सादर केलेली कामे अंदाजपत्रकीय कार्यवाहीसाठी असून प्रत्यक्ष कामाच्या आदेशाशी त्याचा काही संबंध नाही.

कार्यकारी अभियंता टेंभु उपसा सिंचन यांत्रिकी व विद्युत पथक, ओगलेवाडी, कराड

No/TLIMEU/OK/TS-3/	/Of 2016	Office of the Executive Engineer,
		Tembhu Lift Irrigation Mech. & Elect. Unit,
		Koyna Siding, Oglewadi,
		Karad. Dist-Satara. Pin- 415 105.
		Date: / /2016
To,		
M/s 1)		
2)		_
2)		

Sub: - Regarding Budgetary Offers.

Dear Sirs,

With respect to above subject, you are requested to submit your budgetary offers for the work as per description given below for **Tembhu Lift Irrigation Stage 4**, **Vejegaon**, **Tq.Khanapur**, **Dist.Sangali**. The rates should be inclusive of all taxes, duties, transportation, etc. The budgetary offers should be submitted to this office within 10 days during working hours.

			PANEL QTY	1	1	1	1	4	08
		DESCE	RIPTION	I/C	OG-C	OG-T	OG-M1	OG-M2	TOTAL
01	IND LAMPS		::AS PER CGL STANDARD	1/ 0	000	001	OG III I	OG IIIZ	IOIAL
	COLOUR	VOLTAGE	PURPOSE						
	RED	110V DC	VCB ON	1	1	1	1	1	8
	GREEN	110V DC	VCB OFF	1	1	1	1	1	8
	BLUE	110V DC	SPR. CHR. INDICATION	1	0	1	0	0	2
	AMBER	110V DC	AUTOTRIP	1	1	1	1	1	8
	WHITE	110V DC	TRIP CKT HEALTHY	1	1	1	1	1	8
	RED	110VAC	R PHASE HEALTHY	1	0	0	0	0	1
	YELLOW	110VAC	Y PHASE HEALTHY	1	0	0	0	0	1
	BLUE	110VAC	B PHASE HEALTHY	1	0	0	0	0	1
	GREEN	110V DC	DC SUPPLY HEALTHY	1	0	0	0	0	1
	AMBER	110V DC	HT FUSE BLOWN	0	1	0	0	0	1
	GREEN	110V DC	VALVE CLOSE	0	0	0	1	1	5
	RED	110V DC	VALVE OPEN	0	0	0	1	1	5
	RED	110V AC	MOTOR SPACE HEATER ON	0	0	0	1	1	5
	AMBER	110V DC	SERVICE POSITION	1	1	1	1	1	8
	CLEAR	1100V DC	TEST POSITION	1	1	1	1	1	8
02	P.B. ACTUAT	FOR WITH NO CO	NTACT	1	1	1	0	0	3
	PURPOSE:T	CH CHECK							
03		MINATION IAMP		1	1	1	1	1	8
	RATING: 40 V	WATT, 230V AC							
04	PANEL LAM			1	1	1	1	1	8
	MAKE: ANCH	HOR/EQUIVALENT	7/STD						
05	3 PIN PLUG			1	1	1	1	1	8
	RATING:230	V,10A							
06	THERMOSTA	AT, 30-90 DEC		1	1	1	1	1	8
07	TIMER			1	0	1	0	0	2
			RGING MOTOR CKT						
	CONTROL V	OLTAGE: 110V DO							

08	TIMER	0	1	0	0	0	1
00	PURPOSE: FOR CAPACITOR FEEDER CLOSING INTERLOCK	U	, I	U	U	U	1
	CONTROL VOLTAGE: 110V DC						
	CONTROL VOLTAGE. 110V DC						
-00	TIMED		_	0	4	4	00
09	TIMER	0	0	0	4	4	20
	PURPOSE: FOR MOTOR FEEDER SCHEME - ON/OFF DELAY						
	CONTROL VOLTAGE: 110V DC						
10	CASTLE LOCK TYPE:ILB	1	0	0	0	0	1
	MAKE:PS INTERLOCK						
	LEGEND:S2						
11	RT KEY FOR CASTLE LOCK (ONLY FOR ONE INCOMER)	1	0	0	0	0	1
	MAKE:PS INTERLOCK						
	LEGEND:S2						
12	ANTI PUMPING DEVICE	1	1	1	1	1	8
	VOLTAGE - 110V DC, DESIGNATION - 94						
13	AMMETER SELECTOR SWITCH	1	1	1	1	1	8
	DESIGN ATION:A-S/S	•	<u> </u>	•	•	•	
	PANEL QTY	1	1	1	1	4	08
	POSITIONS:R-Y-B-OFF	'	'	'	'		- 00
	1 001110N3.11-1-B-011						
14	VOLTMETER SELECTOR SWITCH	1	1	0	0	0	2
14		- 1	1	U	U	U	
	DESIGNATION:V-S/S						
	NO. OF POSITIONS:4						
4.5	TAIC CIMITOU MUTUCUT BELL ALABA CONTACT						
15	TNC SWITCH WITHOUT BELL ALARM CONTACT	1	1	1	1	1	8
	TYPE -LOCKABLE						
	CONTACTS:1NO IN EACH POSITION						
16	LOCAL REMOTE SWITCH	1	1	1	1	1	8
	TYPE - LOCKABLE						
17	AUTO MANUAL SWITCH	0	0	0	1	1	5
	TYPE - LOCKABLE						
	CONTACTS: 3NO IN EACH POSITION						
18	HOOTER	1	0	0	0	0	1
	AUX SUPPLY: 230V AC						
	CASE SIZE : 96X96 SQMM						
	PURPOSE : FOR DC FAIL ANNUNCIATION						
19	HOOTER	0	0	1	1	1	6
-13	AUX SUPPLY : 110V DC						
	CASE SIZE: 96X96 SQMM						
	PURPOSE: FOR ANNUNCIATOR CIRCUIT						
	I OH OOL . I OH ANNONOMION ONOUT						
20	MCB - DP - 16A - 110V DC	1	4	-1	1	1	0
20	INIOD - DF - IOA - ITUV DO	<u> </u>	1	1	I	1	8
04	MCD DD 16A 220VAC	4	4	4	4	4	
21	MCB-DP-16A-230VAC	1	1	1	1	1	8
	CONTACTOR 440VDO CNIC CNIC						
22	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	5
23	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	5
	ADD ON 2NO+2NC CONTACT FOR DC CONTACTOR	0	0	0	1	1	5
24	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	5
_							_

25	CONTACTOR 110VDC 2NO+2NC	0	1	0	1	1	6
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	1	0	1	1	6
	ABB CIVERCE TEND CONTINUE FOR BUILDING FOR		•				Ŭ
26	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	5
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	0	0	1	1	5
27	CONTACTOR 110VDC2NO+2NC	0	0	0	1	1	5
28	CONTACTOR 110VDC2NO+2NC	0	1	0	1	1	6
29	AUX CONTACTOR 110VDC2N/0+2N/C	1	1	1	1	1	8
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	1	1	1	1	1	8
30	AUX CONTACTOR 110VDC 2N/O+2N/C	0	1	0	1	1	6
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	1	0	1	1	6
31	CONTACTOR 110VDC 2NO+2NC	0	1	0	1	1	6
							_
32	AUX CONTACTOR 110VDC2N/O+2N/C	1	1	1	1	1	8
							_
33	AUX CONTACTOR 110VDC 2N/O+2N/C	1	1	1	1	1	8
- 0.4		_			_		-
34	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	5
	PANEL QTY	1	1	1	1	4	08
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	0	0	1	1	5
35	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	5
33	CONTACTOR TOVOC ZNO+ZNO	U	U	U	'	<u> </u>	5
	CT&PT						
36	6.6 kv EPOXY CASTED CURRENT TRANSFORMER	3	0	0	0	0	3
30	CTR - 2500-1600-800/1+1 A	5	0	0	0	0	3
	STR-31.5 KA /1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0 + 15VA/5P20						
	BIL-20kV/60 kVp						
	CT SEC-ON P2 SIDE						
	MAKE- CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
37	6.6 KV EPOXY CASTED CURRENT TRANSFORMER	3	0	0	0	0	3
	CTR - 2500-1600-800/1A						
	STR - 31.5kA/1SEC						
	BURDEN/ACC CLASS- PS						
	PS CLASS DETAILS : Vk >= 360V AT 800A RATIO, Imag<=						
	30mA @ Vk/2						
	BIL-20kV/60kVp						
	CT SEC -ON P1 SIDE						
	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
	O O LIVEROVIV O ACTED CURRENT TRANSFORMER						
38	6.6 kV EPOXY CASTED CURRENT TRANSFORMER	0	3	0	0	0	3
	CTR - 50/1+1A						
<u> </u>	STR - 9kA/1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0+15VA/SP20 BIL-20kV/60kVp						
	CT SEC -ON P2 SIDE				1		
-	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
	INFARE OGE/OTERANO/OGELEO ITHOAEO/EQUIVALENT						
39	6.6 kV EPOXY CASTED CURRENT TRANSFORMER	0	0	3	0	0	3
0.9	CTR - 50/1+1A	U	U				<u> </u>
	STR -31.5kA/1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0+15VA/SP20						
	DOTED LINITION OF TO ALL O				1	ı	l .

	BIL-20kV/60kVp						
	CT SEC -ON P2 SIDE						
	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
40	6.6 kV EPOXY CASTED CURRENT TRANSFORMER	0	0	0	3	3	15
	CTR - 200/1+1A						
	STR - 9kA/1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0+15VA/SP20						
	BIL-20kV/60kVp						
	CT SEC -ON P2 SIDE						
	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
41	VOLTAGE TRANSFORMER	1	0	0	0	0	1
	TYPE:3PH,3L D/O TYPE, TOP MOUNTED						
	VTR:6600/110V AC						
	BURDEN/ACC.:150VA/CL 1.0						
	VOLTAGE FACTOR - 1.2						
	TYPE- EPOXY RESIN CAST						
	MAKE- CGL/JSL/SILKANS/ECS/STD						
	WIRING : AS PER V1Q0189/2						
	BIL20KV/60KVP			ļ			
40	EDOVA DEGIN OAST VOLTAGE TRANSFORMER						
42	EPOXY RESIN CAST VOLTAGE TRANSFORMER	1	0	0	0	0	1
	TYPE: 3PH, 3LIMB CORE COIL						
	VTR: 6600/ROOT3//110/R3						
	BURDEN/ACC:CORE1:150VA/CL1.0						
	PANEL QTY	1	1	1	1	4	80
	CONN:TYPE-STAR-STAR						
	VOLTAGE FACTOR - 1.2 CONTINUOUS						
	RELAYS						
43	3OC +1 EF RELAY	1	1	1	0	0	3
40	MAKE OF CURRENT OPRTD RELAY L&T	'	'	'	0	0	3
	DESIGNATION OF RELAY MC61A						
	DES OFCURRENT OPRTD RELAY 4.P.IDMTL+INST O/C						
	+E\F RELAY						
	NO.OF POLE/ELEMENT FOR RELAY TRIPLE POLE						
	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING						
1	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING TYPE						
	TYPE						
	TYPE CASE SIZE OF RELAY 121X158X224						
	TYPE CASE SIZE OF RELAY 121X158X224 OVER CURRENT IDMTL SETTING 50% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT						
	TYPE CASE SIZE OF RELAY 121X158X224 OVER CURRENT IDMTL SETTING 50% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SECONDARY OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SO% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY 5A/1A SELECTABLE						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT STANDARD CT SECONDARY SECONDARY SA/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD)						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY 5A/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS 4 N/O SR						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SO% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY 5A/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS 4 N/O SR RELAY FLAG FLAG REQUIRED						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY 5A/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS 4 N/O SR						
	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CT SECONDARY CT SECONDARY DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15%					4	
44	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CONDARY CONDARY CONDARY SA/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS A N/O SR RELAY FLAG FLAG REQUIRED AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15%	0	0	0	1	1	5
44	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING OVER CURRENT INST. SETTING OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING STANDARD CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CT SECONDARY TO SECONDARY SA/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS A N/O SR RELAY FLAG FLAG REQUIRED AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15% MOTOR PROTECTION RELAY MAKE_OF_CURRENT_OPRTD_ RELAY L&T	0	0	0	1	1	5
44	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SO% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY TOTAL SECONDARY CT SECONDARY SA/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS RELAY FLAG FLAG REQUIRED AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15% MOTOR PROTECTION RELAY MAKE_OF_CURRENT_OPRTD_ RELAY L&T DESIGNATION OF RELAY MM30	0	0	0	1	1	5
44	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SO% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CT SECONDARY 5A/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS 4 N/O SR RELAY FLAG FLAG REQUIRED AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15% MOTOR PROTECTION RELAY MAKE_OF_CURRENT_OPRTD_ RELAY DESIGNATION OF RELAY MM30 TYPE OF MOUNTING ON PANEL FLUSH MOUNTING	0	0	0	1	1	5
44	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SO% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY TO SECONDARY CT SECONDARY TO SECONDARY SA/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS A N/O SR RELAY FLAG FLAG REQUIRED AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15% MOTOR PROTECTION RELAY MAKE_OF_CURRENT_OPRTD_ RELAY DESIGNATION OF RELAY MM30 TYPE OF MOUNTING ON PANEL FLUSH MOUNTING TYPE	0	0	0	1	1	5
44	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SOW TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING STANDARD CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY CT SECONDARY SA/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS A N/O SR RELAY FLAG FLAG REQUIRED AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15% MOTOR PROTECTION RELAY MAKE_OF_CURRENT_OPRTD_ RELAY L&T DESIGNATION OF RELAY MM30 TYPE OF MOUNTING ON PANEL FLUSH MOUNTING TYPE CASE SIZE OF RELAY 158(H) X 121(W) X 224(D)	0	0	0	1	1	5
44	TYPE CASE SIZE OF RELAY OVER CURRENT IDMTL SETTING SO% TO 200% OF CT SECONDARY OVER CURRENT INST. SETTING STANDARD CT SECONDARY CURRENT EARTH FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY EARTH FAULT INST. SETTING STANDARD CT SECONDARY CURRENT CT SECONDARY TO SECONDARY CT SECONDARY TO SECONDARY SA/1A SELECTABLE DMT OF RELAY 3.0 SEC. (STANDARD) NO. & TYPE OF CONTACTS A N/O SR RELAY FLAG FLAG REQUIRED AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15% MOTOR PROTECTION RELAY MAKE_OF_CURRENT_OPRTD_ RELAY DESIGNATION OF RELAY MM30 TYPE OF MOUNTING ON PANEL FLUSH MOUNTING TYPE	0	0	0	1	1	5

	NO. & TYPE OF CONTACTS 4 C/O + 1 C/O FOR SELF			1	1	1	
	SUPERVISION						
-	RELAY FLAG FLAG REQUIRED						
	AUXILLIARY SUPPLY AC/DC 2200 DC						
	AUXILLIANT SUPPLITAC/DC 2200 DC						
45	UNDERVOLTAGE RELAY	1	1	0	1	1	7
45	MAKE OF RELAY L&T	-	1	U	<u> </u>	1	/
	DESIGNATION OF RELAY MV12						
	DES OFCURRENT OPRTD RELAY U/V//O/V RELAY						
	NO. OF POLE/ELEMENT FOR RELAY SINGLE POLE						
	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING						
	D/O TYPE						
-	CASE SIZE OF RELAY 71(W)X158(H)X224(D)BEZEL						
-	SETTING 20-95%//105-185%						
-	CHARACTERASTIC INVERSE/DEFINITE TIME LAG						
	PROGRAMMABLE)						
	NO. & TYPE OF CONTACTS 2C/O SR						
	RELAY FLAG FLAG REQUIRED						
	AUXILLIARY SUPPLY AC/DC 88-264V DC			1	1	1	
	VT SECONDARY VOLTAGE 110V AC			1	1	1	
	VI OLOGINDATTI VOLTAGE TIUV AC			1	1	<u> </u>	
46	AUX RELAY DEVICE FOR DC FAIL SCHEME	1	0	0	0	0	1
40	WITH BUILT IN ACCEPT PB & DC FAIL INDICATION	'	U	0	0	0	1
	DC SUPPLY-110V DC						
	AC SUPPLY-230V AC						
	MAKE-CGL/STD						
	MTG-FLUSH CUT OUT-96X48mm						
	PANEL QTY	1	1	1	1	4	08
	PANEL QTT	ı	- 1	'		4	06
47	MAKE OF AUXILIARY RELAY EASUN REYROLL	0	0	2	0	0	2
	DESIGNATION/TYPE OF AUXRELAY B33X3	0	-			-	
	TYPE OF MOUNTINGON PANEL FLUSH MOUNTING TYPE						
	CASE SIZE OF RELAY CASE 3N OF ER						
	NO. & TYPE OF CONTACTS 4 N/O HR ON EACH ELEMENT						
	RELAY FLAG FLAG REQUIRED						
	AUXILLIARY SUPPLY AC/DC 110 VDC						
	NOMESIME COLLET NOIDO 110 VDC						
48	ANNUNCIATOR WITH BUILT IN	0	0	1	0	0	1
	P.B FOR MUTE TEST. ACKNOWLEDGE , RESET						
	NO.OF WINDOWS: 8 WINDOW						
	AUX SUPPLY - 110V DC						
	CASE 2D - 144X144 BEZEL X 215 MM DEPTH						
	PANEL C/O 138X138MM						
	WINDOWS - AS PER MANUFACTURER STANDARD						
	WITH SELECTABLE NO/ NC FAULT CONTACT						
	CONFIGURATION.						
	GROUPING FACILITY REQD.						
	COLOUR FOR WINDOW - RED.				1	1	
	W1- OVERCURRENT / EARTH FAULT				1	1	
	W2-TRIP CIRCUIT UNHEALTHY						
	W3- BCH TRIP				1	1	
	W4- WTI TRIP						
	W5- OTI TRIP						
	W6- BCH ALARM						
	W7- WTI ALARM				1	1	
	W8- OTI ALARM						
	MAKE - MINILEC/EQUIVALENT						
49	ANNUNCIATOR WITH BUILT IN	0	0	0	1	1	5
	P.B FOR MUTE TEST, ACKNOWLEDGE , RESET						
		•	·	•		•	

		ı	1	ı	1		1
	NO.OF WINDOWS : 6 WINDOW						
	AUX SUPPLY - 110V DC						
	CASE 2D - 144X144 BEZEL X 215 MM DEPTH						
	PANEL C/O 138X138MM						
	WINDOWS - AS PER MANUFACTURER STANDARD						
	WITH SELECTABLE NO/ NC FAULT CONTACT						
	CONFIGURATION.						
	GROUPING FACILITY REQD.						
	COLOUR FOR WINDOW - RED.						
	WI- MOTOR PROTECTION RELAY TRIP						
	W2- TRIP CIRCUIT UNHEALTHY						
	W3- HT FUSE FAIL						
	W4- UNDERVOLTAGE RELAY TRIP						
	W5- SPARE						
	W6- SPARE						
	MAKE - MINILEC/EQUIVALENT						
	IMANE - IMINILEO/EQUIVALENT						
	MACTED TRIP DELAY						
50	MASTER TRIP RELAY	1	1	1	1	1	8
	DESIGNATION/TYPE OF AUX RELAY B24						
	TITLE OF AUX RELAY HIGH SPEED TRIPPING RELAY						
	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING						
	TYPE						
	CASE SIZE OF RELAY CASE 1N OF ER						
	NO. & TYPE OF CONTACTS 3N/O+1N/C HR						
	RELAY FLAG FLAG REQUIRED						
	AUXILLIARY SUPPLY AC/DC 110V DC						
	AUXILLIANT SUPPLT AU/DU TTUV DU						
	TRIB OIDOUIT OURERVIOLON RELAY	_	_		4		
51	TRIP CIRCUIT SUPERVISION RELAY	1	1	1	1	1	8
	MAKE-CGL/STD						
	PANEL QTY	1	1	1	1	4	80
	AUX. VOLTAGE- 110 VDC						
	CASE-96X48mm						
	CONTACTS-1 NO+1NC SR						
52	HT HRC FUSE WITH STRIKER PIN FOR CAPACITOR	0	3	0	0	0	3
02	FEEDER	"	J				
	CURRENT RATING - 63A						
-	MAKE : COOPER BUSSMANN						
	PURPOSE : FOR VACUUM CONTACTOR						
	MODEL : 7.2BDGHC63S - 63A						
	7.2 kV, 40 kA, HV FUSE LINK - SINGLE HOLE						
53	HRC FUSE WITH STRIKER PIN FOR MOTOR FEEDER	0	0	0	3	3	15
	CURRENT RATING - 200A						
	MAKE : COOPER BUSSMANN						
	PURPOSE : FOR VACUUM CONTACTOR						
<u> </u>	NO. OF STARTS/HOUR: 2				1	1	
-							
	STARTING TIME: LESS THAN 5 SECONDS					-	
	MODEL : 7.2WFNMO200 - 200A						
	7.2 kV, 45 KA, HV FUSE LINK						
	METERS						
54	AMMETER 96 SQ MM TRIPPLE SCALE	1	0	0	0	0	1
	TYPE-MISC						
	CT SEC: 1A						
	CT PRIMARY : 2500/1600/800A					1	
	SCALE - 100% OF CTR					1	
	DEFLECTION-90 DEG						
-	ACC CLASS- 1.0				1	-	
-	MTG – FLUSH					-	
1	MAKE – RISHABH/STD						

55	AMMETER 96 SQ MM SINGLE SCALE						
	TYPE-MISC						
	CTR: 50/1A FOR OG – C	0	1	0	0	0	1
	CTR: 50/1A FOR OG – T	0	0	1	0	0	1
	ACC CLASS- CL1.0	0					
	CASE SIZE – 96SQ. MM						
	MAKE – RISHABH/STD						
	MARC - HISTADI I/STD						
56	AMMETER 96 SQ MM SUPRESSED SINGLE SCALE						
	TYPE-MISC						
	CTR: 200/1A FOR OG – M	0	0	0	1	1	5
	ACC CLASS- CL1.0					-	
	CASE SIZE – 96SQ. MM						
	MAKE – RISHABH/STD						
	WARE THOUNDED						
57	ANALOG VOLTMETER	1	1	0	0	0	2
	MAKE : RISHABH/STD						
	SCALE - 0-7.2 kV						
	CASE SIZE : 96 SQMM						
	ACC CLASS: 1.0						
	VT SECONDARY : 110 V AC						
	VT RATIO : 6.6 KV / 110V AC						
	VITATIO: 0.0 KV / 110 V AC						
58	DIGITAL MULTIFUNCTION METER						
	3 PHASE, 4 WIRE, 3 ELEMENT						
	SUITABLE TO READ V,A,KW,KWH,KVAR, PF, FREQUENCY						
	ACCURACY CLASS: 1.0						
	OVERALL SIZE: 96x96 mm (FLUSH MOUNTING)						
	CTR: 2500/1600/800A FOR IC	1	0	0	0	0	1
	PANEL QTY	1	1	1	1	4	08
	CTR: 50/1A FOR OG – C	0	1	0	0	0	1
	CTR: 50/1A FOR OG – T	0	0	1	0	0	1
	CTR: 200/1A FOR OG – M	0	0	0	1	1	5
	VT RATIO: 6600/110V AC	0	0	0	'	'	
	AUXILLIARY VOLTAGE-230V AC						
	MAKE:AE/MECO/RISHABH/IMP/STD						
	MARCEAL/MEGO/THOTIABIT/INIT/OTB						
59	HOUR RUN METER 48 SQMM	0	0	0	1	1	5
	FLUSH MOUNTING TYPE				-		
	MAKE:KAYCEE/STD						
	SUPPLY VOLATGE:230V AC/50HZ						
60	VACUUM CONTACTOR	0	1	0	1	1	6
	BASIC VACCUM CONTACTOR UNIT WITHIN PANEL						
	MAKE – CGL/STD						
	KV/AMP - 6.6 KV/400A, 9KA/ 1 SEC						
	TYPE - MECHANICALLY LATCHED TYPE						
	OPERATING DUTY AC4 AS PER IEC470						
	AUX CONTACTS - 4NO+4NC						
	AUX VOLTAGE - 110V DC						
	VACCUM CONTACTOR PANEL DULY FITTED WITH CTS						
	AND ALL ACCESSORIES AS PER SCHEME						
L				l	1	i	

TECHNICAL SPECIFICATIONS

(A) SYSTEM PARAMETERS

1.	RATED VOLTAGE	6600V

2.	RATED FREQUENCY	50HZ
3.	SYSTEM NEUTRAL	EFFECTIVELY EARTHED
4.	FAULT LEVEL	26.3 KA
5	DEGREE OF PROTECTION	IP4X FOR EXTERNAL ENCLOSURE
	AS P0ER IS 3427:1969	

(B) CONTROL SUPPLY VOLTAGES

1.	CLOSING COIL	110V DC
2.	TRIPPING COIL	110V DC
3.	INDICATION CKT.	110V DC
4.	PANEL SPACE HEATER	230V AC
5.	SPR CHARGE MOTOR	110V DC

(C) GENERAL NOTES

1.	INTER PANEL WIRES SHALL BE SUPPLIED WITH THE PANEL, TO BE CONNECTED AT SITE
2.	ALL DOORS WILL BE EARTHED BY FLEXIBLE COPPER BRAID
3.	PANEL SHALL BE PAINTED INSIDE AND OUTSIDE WITH SHADE 631 OF IS-5.
4.	NEOPRENE GASKETS SHALL BE PROVIDED AT OPENING DOOR.
5.	ELECTRICAL & MECHANICAL INTERLOCK SHALL BE PROVIDED BETWEEN LINE CAPACITOR FEEDER AND IT'S RESPECTIVE MOTOR FEEDER SUCH THAT WHEN ONLY LINE CAPACITOR IS ON, IT'S MOTOR SHOULD NOT BE MADE ON INDIPENDENTLY.
6.	230V AC & 110V DC CONTROL SUPPLY SHALL BE RECEIVED AT INCOMERS & SAME SHALL BE DISTRIBUTED BY BUS WIRING TO OTHER PANELS.
7.	MECH. OPERATED EMERGENCY STOP PUSH BUTTON SHALL BE PROVIDED FOR VCB PANELS ONLY.
8.	THE OUTER MS SHEET BODY IS AVAILABLE AT SITE. ONLY THE ALL INTERNAL COMPONENTS SHOULD BE REPLACED WITH NEW ONE AS PER THIS BILL OF MATERIAL.

(D) CIRCUIT BREAKER

1.	APPLICABLE STANDARD	IS 13118/1991
2.	MECHANISM	TRIP FREE
3.	BREAKING CAPACITY	26.3 KA AT 6.6 KV
4.	SHORT TIME RATING	26.3 KA FOR 3 SEC
5.	BASIC INSULATION LEVEL (BIL)	20 KV POWER FRQ. WITHSTAND

		60 KVP LIGHTENING IMPULES
6.	RATED CURRENT	630A
7	VCB MECHANISM	MOTOR OPERATED SPRING CHARGE MECHANISM.

(E) MAIN HORIZONTAL BUSBARS

1.	RATED CURRENT	630A
2.	SHORT TIME RATING	26.3 KA FOR 3 SEC
3.	MATERIAL OF BUSBARS	ALUMINIUM
4.	INSULATION OF BUSBARS	HEAT SHRINKABLE PVC SLEEVES

(F) EARTH BAR

1.	MAERIAL OF EARTH BUS	COPPER

Thanking you.

Yours faithfully,

Executive Engineer,
Tembhu Lift Irrigation Mechanical & Electrical Unit,
Ogalewadi – Karad.

Copy submitted to the Superintending Engineer, Mechanical Circle (C.P.), Kolhapur, for information & necessary action please. It is requested to upload this offer on official website of department.

Office Notice Board.

No/TLIMEU/OK/TS-4/	/Of 2016	Office of the Executive Engineer,
		Tembhu Lift Irrigation Mech. & Elect. Unit,
		Koyna Siding, Oglewadi,
		Karad. Dist-Satara. Pin- 415 105.
		Date: / /2016
To,		
M/s 1)		
2)		_
3)		

Sub: - Regarding Budgetary Offers.

Dear Sirs,

With respect to above subject, you are requested to submit your budgetary offers for the work as per description given below for Tembhu Lift Irrigation Stage 5, Bhood, Tq.Khanapur, Dist.Sangali. The rates should be inclusive of all taxes, duties, transportation, etc. The budgetary offers should be submitted to this office within 10 days during working hours.

			PANEL QTY	1	1	1	1	5	09
		DESC	CRIPTION	I/C	OG-C	OG-T	OG-M1	OG-M2	TOTAL
01	IND. LAMPS		:AS PER CGL STANDARD						
	COLOUR	VOLTAGE	PURPOSE						
	RED	110V DC	VCB ON	1	1	1	1	1	9
	GREEN	110V DC	VCB OFF	1	1	1	1	1	9
	BLUE	110V DC	SPR. CHR. INDICATION	1	0	1	0	0	2
	AMBER	110V DC	AUTOTRIP	1	1	1	1	1	9
	WHITE	110V DC	TRIP CKT HEALTHY	1	1	1	1	1	9
	RED	110VAC	R PHASE HEALTHY	1	0	0	0	0	1
	YELLOW	110VAC	Y PHASE HEALTHY	1	0	0	0	0	1
	BLUE	110VAC	B PHASE HEALTHY	1	0	0	0	0	1
	GREEN	110V DC	DC SUPPLY HEALTHY	1	0	0	0	0	1
	AMBER	110V DC	HT FUSE BLOWN	0	1	0	0	0	1
	GREEN	110V DC	VALVE CLOSE	0	0	0	1	1	6
	RED	110V DC	VALVE OPEN	0	0	0	1	1	6
	RED	110V AC	MOTOR SPACE HEATER ON	0	0	0	1	1	6
	AMBER	110V DC	SERVICE POSITION	1	1	1	1	1	9
	CLEAR	1100V DC	TEST POSITION	1	1	1	1	1	9
02		TOR WITH NO CO	NTACT	1	1	1	0	0	3
	PURPOSE:T	CH CHECK							
03		MINATION IAMP		1	1	1	1	1	9
	RATING: 40	WATT, 230V AC							
04	PANEL LAMI			1	1	1	1	1	9
	MAKE: ANCI	HOR/EQUIVALENT	-						
05	3 PIN PLUG			1	1	1	1	1	9
	RATING:230	V,10A							
06	THERMOST	AT, 30-90 DEC		1	1	1	1	1	9
07	TIMER			1	0	1	0	0	2
			RGING MOTOR CKT						
	CONTROL V	OLTAGE: 110V DO	5						

08	TIMER	0	1	0	0	0	1
06	PURPOSE: FOR CAPACITOR FEEDER CLOSING INTERLOCK	U	I	U	U	U	'
-							
	CONTROL VOLTAGE: 110V DC						
09	TIMER	0	0	0	4	4	24
	PURPOSE: FOR MOTOR FEEDER SCHEME - ON/OFF DELAY						
	CONTROL VOLTAGE: 110V DC						
10	CASTLE LOCK TYPE:ILB	1	0	0	0	0	1
	MAKE:PS INTERLOCK						
	LEGEND:S2						
11	RT KEY FOR CASTLE LOCK (ONLY FOR ONE INCOMER)	1	0	0	0	0	1
	MAKE:PS INTERLOCK						
	LEGEND:S2						
12	ANTI PUMPING DEVICE	1	1	1	1	1	9
12	VOLTAGE - 110V DC, DESIGNATION - 94	-		'	'	'	<u> </u>
	VOLTAGE - 110V DO, DEGIGNATION - 34						
13	AMMETER SELECTOR SWITCH	1	1	1	1	1	9
13	DESIGN ATION:A-S/S	ı	I	ı	I	I	9
	PANEL QTY	1	1	1	1	5	09
	<u> </u>	ı	I	I	I	5	09
	POSITIONS:R-Y-B-OFF						
	NOLTMETER OF FOTOR OWITOU	-					
14	VOLTMETER SELECTOR SWITCH	1	1	0	0	0	2
	DESIGNATION:V-S/S						
	NO. OF POSITIONS:4						
15	TNC SWITCH WITHOUT BELL ALARM CONTACT	1	1	1	1	1	9
	TYPE –LOCKABLE						
	CONTACTS:1NO IN EACH POSITION						
16	LOCAL REMOTE SWITCH	1	1	1	1	1	9
	TYPE – LOCKABLE						
17	AUTO MANUAL SWITCH	0	0	0	1	1	6
	TYPE – LOCKASLE			_			_
	CONTACTS: 3NO IN EACH POSITION						
18	HOOTER	1	0	0	0	0	1
10	AUX SUPPLY: 230V AC	-					'
	CASE SIZE: 96X96 SQMM						
	PURPOSE: FOR DC FAIL ANNUNCIATION						
	I OITI OOL . I OIT DO I AIL ANNONOINTION						
10	HOOTED	^		4	4	4	7
19	HOOTER	0	0	1	1	1	/
	AUX SUPPLY: 110V DC						
	CASE SIZE: 96X96 SQMM						
	PURPOSE : FOR ANNUNCIATOR CIRCUIT						
20	MCB - DP - 16A - 110V DC	1	1	1	1	1	9
21	MCB-DP-16A-230VAC	1	1	1	1	1	9
22	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	6
23	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	6
	ADD ON 2NO+2NC CONTACT FOR DC CONTACTOR	0	0	0	1	1	6
24	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	6
		_			•		

25	CONTACTOR 110VDC 2NO+2NC	0	1	0	1	1	7
23	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	1	0	1	1	7
	ADD ON 2NO +2NO CONTACT FOR DC CONTACTOR	U	ı	U	ı	ı	/
26	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	6
26	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	0	0	1		
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	U	U	U	I	1	6
07	CONTACTOR 110VROONG ONG	_	0	_	_	_	
27	CONTACTOR 110VDC2NO+2NC	0	0	0	1	1	6
				_			
28	CONTACTOR 110VDC2NO+2NC	0	1	0	1	1	7
29	AUX CONTACTOR 110VDC2N/0+2N/C	1	1	1	1	1	9
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	1	1	1	1	1	9
30	AUX CONTACTOR 110VDC 2N/O+2N/C	0	1	0	1	1	7
	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	1	0	1	1	7
31	CONTACTOR 110VDC 2NO+2NC	0	1	0	1	1	7
32	AUX CONTACTOR 110VDC2N/O+2N/C	1	1	1	1	1	9
33	AUX CONTACTOR 110VDC 2N/O+2N/C	1	1	1	1	1	9
			-				
34	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	6
<u> </u>	ADD ON 2NO +2NC CONTACT FOR DC CONTACTOR	0	0	0	1	1	6
	PANEL QTY	1	1	1	1	5	09
35	CONTACTOR 110VDC 2NO+2NC	0	0	0	1	1	6
- 55	OONTACTOR TROVDO ZNO+ZNO	U	O	U	!	'	-
	CT&PT						
00	6.6 kv EPOXY CASTED CURRENT TRANSFORMER	3	0	0	_	_	3
36		3	0	U	0	0	3
	CTR - 2500-1600-800/1+1 A						
	STR-31.5 KA /1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0 + 15VA/5P20						
	BIL-20kV/60 kVp						
	CT SEC-ON P2 SIDE						
	MAKE- CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
37	6.6 KV EPOXY CASTED CURRENT TRANSFORMER	3	0	0	0	0	3
	CTR - 2500-1600-800/1A						
	STR - 31.5kA/1SEC						
	BURDEN/ACC CLASS- PS						
	PS CLASS DETAILS: Vk >= 360V AT 800A RATIO, Imag<= 30mA						
L	@ Vk/2						
	BIL-20kV/60kVp						
	CT SEC -ON P1 SIDE						
	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
38	6.6 kV EPOXY CASTED CURRENT TRANSFORMER	0	3	0	0	0	3
	CTR - 50/1+1A	_					
	STR - 9kA/1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0+15VA/SP20						
	BIL-20kV/60kVp						
	CT SEC -ON P2 SIDE						
	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
	IVIANE-UGL/SILNANS/SGELEU I NICALS/EQUIVALEN I						
-00	C C LV EDOVY CACTED OURDENT TRANSCORAGE	_	•	_	_	_	
39	6.6 kV EPOXY CASTED CURRENT TRANSFORMER	0	0	3	0	0	3
	CTR - 50/1+1A						
	STR -31.5kA/1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0+15VA/SP20						
	BIL-20kV/60kVp						
					-		

	CT SEC. ON BO SIDE		1		<u> </u>		1
	CT SEC -ON P2 SIDE						
	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
40	A A LIVEROVA CARTER OURRENT TRANSFORMER						40
40	6.6 kV EPOXY CASTED CURRENT TRANSFORMER	0	0	0	3	3	18
	CTR - 200/1+1A						
	STR - 9kA/1SEC						
	BURDEN/ACC CLASS- 15VA/CL1.0+15VA/SP20						
	BIL-20kV/60kVp						
	CT SEC -ON P2 SIDE						
	MAKE-CGL/SILKANS/SGELECTRICALS/EQUIVALENT						
41	VOLTAGE TRANSFORMER	1	0	0	0	0	1
71	TYPE:3PH,3L D/O TYPE, TOP MOUNTED		0	- 0	U	0	'
	VTR:6600/110V AC						
	BURDEN/ACC.:100VA/CL 1.0						
	VOLTAGE FACTOR - 1.2						
	TYPE- EPOXY RESIN CAST						
	MAKE- CGL/JSL/SILKANS/ECS/STD						
	WIRING: AS PER V1Q0189/2						
	BIL20KV/60KVP						
42	EPOXY RESIN CAST VOLTAGE TRANSFORMER	1	0	0	0	0	1
74	TYPE: 3PH, 3LIMB CORE COIL						-
	VTR: 6600/ROOT3//110/R3			1			
	BURDEN/ACC:CORE1:150VA/CL1.0						
	CONN:TYPE-STAR-STAR						
	VOLTAGE FACTOR - 1.2 CONTINUOUS						
	PANEL QTY	1	1	1	1	5	09
	RELAYS						
43	3OC +1 EF RELAY	1	1	1	0	0	3
	MAKE OF CURRENT OPRTD RELAY L&T						
	DESIGNATION OF RELAY MC61A						
	DES OFCURRENT OPRTD RELAY 4.P.IDMTL+INST O/C						
	+E\F RELAY						
	NO.OF POLE/ELEMENT FOR RELAY TRIPLE POLE						
	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING TYPE						
	CASE SIZE OF RELAY 121X158X224						
	OVER CURRENT IDMTL SETTING 50% TO 200% OF CT						
	SECONDARY						
	OVER CURRENT INST. SETTING STANDARD CT						
	SECONDARY CURRENT EARTH						
	FAULT IDMTL SETTING 5% TO 80% OF CT SECONDARY						
	EARTH FAULT INST. SETTING STANDARD CT SECONDARY						
	CURRENT						
	CT SECONDARY 5A/1A SELECTABLE						
	DMT OF RELAY 3.0 SEC. (STANDARD)						
	NO. & TYPE OF CONTACTS 4 N/O SR						
	RELAY FLAG FLAG REQUIRED						
	· · · · · · · · · · · · · · · · · · ·			1			
	AUXILLIARY SUPPLY AC/DC 95V TO 240VAC/DC +/-15%						
				_		<u> </u>	
44	MOTOR PROTECTION RELAY	0	0	0	1	1	6
	MAKE_OF_CURRENT_OPRTD_ RELAY L&T						
	DESIGNATION OF RELAY MM30						
	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING TYPE						
	CASE SIZE OF RELAY 158(H) X 121(W) X 224(D)						
	CT SECONDARY CURRENT 1A/5A USER SELECTABLE						
	NO. & TYPE OF CONTACTS 4 C/O + 1 C/O FOR SELF						
	SUPERVISION						
	RELAY FLAG FLAG REQUIRED			1			1
				1			1
	AUXILLIARY SUPPLY AC/DC 2200 DC						
	1		I	1	l		1

45	UNDERVOLTAGE RELAY	1	1	0	1 1	1 1	8
	MAKE OF RELAY L&T						
						-	
	DESIGNATION OF RELAY MV12						
	DES_OFCURRENT_OPRTD_RELAY U/V//O/V RELAY						
	NO. OF POLE/ELEMENT FOR RELAY SINGLE POLE						
	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING D/O						
	TYPE						
	CASE SIZE OF RELAY 71(W)X158(H)X224(D)BEZEL						
	SETTING 20-95%//105-185%						
	CHARACTERASTIC INVERSE/DEFINITE TIME LAG						
	PROGRAMMABLE)						
	NO. & TYPE OF CONTACTS 2C/O SR						
	RELAY FLAG FLAG REQUIRED						
	AUXILLIARY SUPPLY AC/DC 88-264V DC						
						-	
	VT SECONDARY VOLTAGE 110V AC						
46	AUX RELAY DEVICE FOR DC FAIL SCHEME	1	0	0	0	0	1
	WITH BUILT IN ACCEPT PB & DC FAIL INDICATION						
							-
	DC SUPPLY-110V DC			<u> </u>			
	AC SUPPLY-230V AC						
	MAKE-CGL						
	MTG-FLUSH			1			
				-	-	-	
	CUT OUT-96X48mm						
[1		
47	MAKE OF AUXILIARY RELAY EASUN REYROLL	0	0	2	0	0	2
- ' '	DESIGNATION/TYPE OF AUXRELAY B33X3	_		_	<u> </u>		_
	TYPE OF MOUNTINGON PANEL FLUSH MOUNTING TYPE						
	CASE SIZE OF RELAY CASE 3N OF ER						
	PANEL QTY	1	1	1	1	5	09
	17.11= 4.11		•		•		
	NO 6 TYPE OF CONTACTO A NICOLID ON FACILIFIEMENT						
	NO. & TYPE OF CONTACTS 4 N/O HR ON EACH ELEMENT						
	RELAY FLAG FLAG REQUIRED						
	AUXILLIARY SUPPLY AC/DC 110 VDC						
48	ANNUNCIATOR WITH BUILT IN	0	0	1	0	0	1
40		U	U	ı	0	U	<u>'</u>
	P.B FOR MUTE TEST. ACKNOWLEDGE , RESET						
	NO.OF WINDOWS: 8 WINDOW						
	AUX SUPPLY - 110V DC						
	CASE 2D - 144X144 BEZEL X 215 MM DEPTH						
	PANEL C/O 138X138MM			<u> </u>			
	WINDOWS - AS PER MANUFACTURER STANDARD				1]
	WITH SELECTABLE NO/ NC FAULT CONTACT						
	CONFIGURATION.						
	GROUPING FACILITY REQD.			ļ		1	
	COLOUR FOR WINDOW - RED.		<u> </u>	<u> </u>			
	W1- OVERCURRENT / EARTH FAULT						
	W2-TRIP CIRCUIT UNHEALTHY			1	<u> </u>		
				1			
	W3- BCH TRIP			ļ		1	
	W4- WTI TRIP						
I	W5- OTI TRIP				1		
	W6- BCH ALARM			1			
	W7- WTI ALARM			1	<u> </u>	1	
				1			
	W8- OTI ALARM						
					1	1	
	MAKE - MINILEC/EQUIVALENT						
40	MAKE - MINILEC/EQUIVALENT	0	0	0	1	1	6
49	MAKE - MINILEC/EQUIVALENT ANNUNCIATOR WITH BUILT IN	0	0	0	1	1	6
49	MAKE - MINILEC/EQUIVALENT ANNUNCIATOR WITH BUILT IN P.B FOR MUTE JEST, ACKNOWLEDGE , RESET	0	0	0	1	1	6
49	MAKE - MINILEC/EQUIVALENT ANNUNCIATOR WITH BUILT IN	0	0	0	1	1	6
49	MAKE - MINILEC/EQUIVALENT ANNUNCIATOR WITH BUILT IN P.B FOR MUTE JEST, ACKNOWLEDGE , RESET NO.OF WINDOWS : 6 WINDOW	0	0	0	1	1	6
49	MAKE - MINILEC/EQUIVALENT ANNUNCIATOR WITH BUILT IN P.B FOR MUTE JEST, ACKNOWLEDGE, RESET NO.OF WINDOWS: 6 WINDOW AUX SUPPLY - 110V DC	0	0	0	1	1	6
49	MAKE - MINILEC/EQUIVALENT ANNUNCIATOR WITH BUILT IN P.B FOR MUTE JEST, ACKNOWLEDGE, RESET NO.OF WINDOWS: 6 WINDOW AUX SUPPLY - 110V DC CASE 2D - 144X144 BEZEL X 215 MM DEPTH	0	0	0	1	1	6
49	MAKE - MINILEC/EQUIVALENT ANNUNCIATOR WITH BUILT IN P.B FOR MUTE JEST, ACKNOWLEDGE, RESET NO.OF WINDOWS: 6 WINDOW AUX SUPPLY - 110V DC	0	0	0	1	1	6

	WINDOWS - AS PER MANUFACTURER STANDARD	l					
-	WITH SELECTABLE NO/ NC FAULT CONTACT						
	CONFIGURATION.						
	GROUPING FACILITY REQD.						
	COLOUR FOR WINDOW - RED.						
-	WI- MOTOR PROTECTION RELAY TRIP						
	W2- TRIP CIRCUIT UNHEALTHY						
	W3- HT FUSE FAIL						
	W4- UNDERVOLTAGE RELAY TRIP						
	W5- SPARE						
	W6- SPARE						
	MAKE - MINILEC/EQUIVALENT						
50	MASTER TRIP RELAY	1	1	1	1	1	9
30	DESIGNATION/TYPE OF AUX RELAY B24	ı	ı	1	ı	1	9
	TITLE OF AUX RELAY HIGH SPEED TRIPPING RELAY						
	TYPE OF MOUNTING ON PANEL FLUSH MOUNTING TYPE						
	CASE SIZE OF RELAY CASE 1N OF ER						
	NO. & TYPE OF CONTACTS 3N/O+1N/C HR RELAY FLAG FLAG REQUIRED						
	AUXILLIARY SUPPLY AC/DC 110V DC						
E 1	TRID CIDCUIT CUREDVICION DEL AV	1	4	1	1	1	9
51	TRIP CIRCUIT SUPERVISION RELAY	1	1	1	ı	1	9
	MAKE-CGL/STD						
	AUX. VOLTAGE- 110 VDC						
	CASE-96X48mm						
	CONTACTS-1 NO+1NC SR						
FO	HT HRC FUSE WITH STRIKER PIN FOR CAPACITOR FEEDER	0	2	_	0	0	2
52		0	3 1	0	0	0 5	3 09
	CURRENT RATING - 63A	1	ı	ı	ı	5	09
	MAKE : COOPER BUSSMANN						
	PURPOSE : FOR VACUUM CONTACTOR						
	MODEL : 7.2BDGHC63S - 63A 7.2 kV, 40 kA, HV FUSE LINK - SINGLE HOLE						
	7.2 KV, 40 KA, HV FUSE LINK - SINGLE HOLE						
53	HRC FUSE WITH STRIKER PIN FOR MOTOR FEEDER	0	0	0	3	3	18
33	CURRENT RATING - 200A	U	U	U	3	3	10
	MAKE : COOPER BUSSMANN						
	PURPOSE : FOR VACUUM CONTACTOR						
	NO. OF STARTS/HOUR: 2 STARTING TIME : LESS THAN 5 SECONDS						
	MODEL : 7.2WFNMO200 - 200A						
	7.2 kV, 45 KA, HV FUSE LINK						
	METERS						
54	AMMETER 96 SQ MM TRIPPLE SCALE	1	0	0	0	0	1
54	TYPE-MISC	-	U	U	U	U	
	CT SEC: 1A						
<u> </u>							
	CT PRIMARY : 2500/1600/800A						
	SCALE - 100% OF CTR						
	DEFLECTION-90 DEG						
	ACC CLASS- 1.0						
	MTG - FLUSH						
	MAKE – RISHABH/STD						
	AMMETER 96 SQ MM SINGLE SCALE						
55	TYPE-MISC						
-	CTR: 50/1A FOR OG – C	0	1	0		0	4
-	CTR: 50/1A FOR OG – C CTR: 50/1A FOR OG – T	0	0	0	0	0	1
1	OTN. 30/ TA FON OG – T	0	U	l I	U	U	1

		1	1		1	1	1
	ACC CLASS- CL1.0						
	CASE SIZE – 96SQ. MM						
	MAKE – RISHABH/STD						
56	AMMETER 96 SQ MM SUPRESSED SINGLE SCALE						
	TYPE-MISC						
	CTR: 200/1A FOR OG – M	0	0	0	1	1	6
	ACC CLASS- CL1.0						
	CASE SIZE – 96SQ. MM						
	MAKE – RISHABH/STD						
57	ANALOG VOLTMETER	1	1	0	0	0	2
- 07	MAKE : RISHABH/STD						_
	SCALE - 0-7.2 kV						
	CASE SIZE: 96 SQMM						
	ACC CLASS: 1.0						
	VT SECONDARY : 110 V AC	-					
	VT RATIO : 6.6 KV / 110V AC			1		-	
	DIGITAL MULTIFUNGTION METER						
58	DIGITAL MULTIFUNCTION METER						
	3 PHASE, 4 WIRE, 3 ELEMENT						
	SUITABLE TO READ V,A,KW,KWH,KVAR, PF, FREQUENCY						
	ACCURACY CLASS: 1.0						
	OVERALL SIZE: 96x96 mm (FLUSH MOUNTING)						
	CTR: 2500/1600/800A FOR IC	1	0	0	0	0	1
	CTR: 50/1A FOR OG – C	0	1	0	0	0	1
	CTR: 50/1A FOR OG – T	0	0	1	0	0	1
	CTR: 200/1A FOR OG – TN	0	0	0	1	1	6
	VT RATIO: 6600/110V AC						
	AUXILLIARY VOLTAGE-230V AC						
	MAKE:AE/MECO/RISHABH/IMP/STD						
	PANEL QTY	1	1	1	1	5	09
59	HOUR RUN METER 48 SQMM	0	0	0	1	1	6
	FLUSH MOUNTING TYPE						
	MAKE:KAYCEE/STD						
	SUPPLY VOLATGE:230V AC/50HZ						
	55						
60	VACUUM CONTACTOR	0	1	0	1	1	7
- 50	BASIC VACCUM CONTACTOR UNIT WITHIN PANEL	-	<u> </u>		'	 '	
	MAKE – CGL/STD						
	KV/AMP - 6.6 KV/400A, 9KA/ 1 SEC					1	
	TYPE - MECHANICALLY LATCHED TYPE			1		1	
	OPERATING DUTY AC4 AS PER IEC470			1		-	
	AUX CONTACTS - 4NO+4NC			1			
	AUX VOLTAGE - 110V DC					1	
	VACCUM CONTACTOR PANEL DULY FITTED WITH CTS			1			
1	AND ALL ACCESSORIES AS PER SCHEME					1	

TECHNICAL SPECIFICATIONS

(A) SYSTEM PARAMETERS

1.	RATED VOLTAGE	6600V		
2.	RATED FREQUENCY	50HZ		
3.	SYSTEM NEUTRAL	EFFECTI\	/ELY EAR	THED
4.	FAULT LEVEL	26.3 KA		
5	DEGREE OF PROTECTION	IP4X	FOR	EXTERNAL
	AS P0ER IS 3427:1969	ENCLOSU	JRE	

(B) CONTROL SUPPLY VOLTAGES

1.	CLOSING COIL	110V DC
2.	TRIPPING COIL	110V DC
3.	INDICATION CKT.	110V DC
4.	PANEL SPACE HEATER	230V AC
5.	SPR CHARGE MOTOR	110V DC

(C) GENERAL NOTES

1.	INTER PANEL WIRES SHALL BE SUPPLIED WITH THE PANEL, TO BE CONNECTED AT SITE		
2.	ALL DOORS WILL BE EARTHED BY FLEXIBLE COPPER BRAID		
3.	PANEL SHALL BE PAINTED INSIDE AND OUTSIDE WITH SHADE 631 OF IS-5.		
4.	NEOPRENE GASKETS SHALL BE PROVIDED AT OPENING DOOR.		
5.	ELECTRICAL & MECHANICAL INTERLOCK SHALL BE PROVIDED BETWEEN LINE CAPACITOR FEEDER AND IT'S RESPECTIVE MOTOR FEEDER SUCH THAT WHEN ONLY LINE CAPACITOR IS ON, IT'S MOTOR SHOULD NOT BE MADE ON INDIPENDENTLY.		
6.	230V AC & 110V DC CONTROL SUPPLY SHALL BE RECEIVED AT INCOMERS & SAME SHALL BE DISTRIBUTED BY BUS WIRING TO OTHER PANELS.		
7.	MECH. OPERATED EMERGENCY STOP PUSH BUTTON SHALL BE PROVIDED FOR VCB PANELS ONLY.		
8.	THE OUTER MS SHEET BODY IS AVAILABLE AT SITE.		
	ONLY THE ALL INTERNAL COMPONENTS SHOULD BE REPLACED WITH NEW ONE AS PER THIS BILL OF MATERIAL.		

(D) CIRCUIT BREAKER

	(D) CINCUIT BREAKEN					
1.	APPLICABLE STANDARD	IS 13118/1991				
2.	MECHANISM	TRIP FREE				
3.	BREAKING CAPACITY	26.3 KA AT 6.6 KV				
4.	SHORT TIME RATING	26.3 KA FOR 3 SEC				
5.	BASIC INSULATION LEVEL (BIL)	20 KV POWER FRQ. WITHSTAND				
		60 KVP LIGHTENING IMPULES				
6.	RATED CURRENT	630A				
7	VCB MECHANISM	MOTOR OPERATED SPRING CHARGE MECHANISM.				

(E) MAIN HORIZONTAL BUSBARS

1.	RATED CURRENT	630A
2.	SHORT TIME RATING	26.3 KA FOR 3 SEC
3.	MATERIAL OF BUSBARS	ALUMINIUM
4.	INSULATION OF BUSBARS	HEAT SHRINKABLE PVC SLEEVES

(F) EARTH BAR

Ī	1.	MAERIAL OF EARTH BUS	COPPER

Thanking you.

Yours faithfully,

Executive Engineer,
Tembhu Lift Irrigation Mechanical & Electrical Unit,
Ogalewadi – Karad.

Copy submitted to the Superintending Engineer, Mechanical Circle (C.P.), Kolhapur, for information & necessary action please. It is requested to upload this offer on official website of department.

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