-0/22/1	-	SR. NO		DESCRIPTION	UNIT	QUANTITY	CGL DESCRIPTION	MAKE OF EQUIP	PMENT	
DRG.NO.:EH5-4463		1		RCUIT BREAKER ACCESSORIES: PORTABLE TYPE SF6 GAS FILLING D EVACUATING PLANT	NO.	1	PORTABLE TYPE SF6 GAS EVACUATION, VACUUMING & SF6 GAS RE-FILLING EQUIPMENT (MODEL EVAFO2) WITH a) GAS REGULATOR-1 NO b) OPERATING VALVE-1 NO c) VACCUM PUMP-1 NO d) HANDLING TROLLEY FOR VACCUM PUMP & GAS CYLINDER -1NO e) PRESSURE GAUGES- 1SET f) HOSE FOR EVACUATION, VACUUMING & RE-FILLING-1 SET	PACIFIC MICROSY	/STEM	
DR		2	cı	RCUIT BREAKER ACCESSORIES: SF6 LEAKAGE DETECTOR	NO.	2	SF6 GAS LEAK DETECTOR	TIFF/Eq.		
		3	CI	RCUIT BREAKER ACCESSORIES: CIRCUIT BREAKER OPERATIONAL ANALYSER	NO.	1	CIRCUIT BREAKER OPERATIONAL ANALYZER COMPRISING OF OPERATIONAL ANALYSER WITH DCRM KIT : 2 CHANNEL	SCOPE		
	Ε	4	SI	F6 GAS (20% OF TOTAL QUANTITY (QUANTITY USED FOR 11 NOS. C.B)	LOT	1	SF6 GAS - 160 Kg	CGL APPROVE	ED	
		5		ANDATORY SPARE: COMPLETE POLE WITH COLUMN AND INTERRUPTER AND PERATING MECHANISM BUT WITHOUT SUPPORT STRUCTURE	NO.	1	ONE COMPLETE POLE WITHOUT CLOSING RESISTOR WITHOUT GRADING CAPA INCLUDING OPERATING MECHANISM BUT EXCLUDING SUPPORT STRUCTURE.	CITOR CGL APPROVE	ED	
ľ		7		ANDATORY SPARE: RUBBER GASKETS, O RINGS AND SEALS COMPLETE REPLACEMENT FOR ONE BREAKER)	SET	3	1 SET INCLUDES FOLLOWING ITEMS. O RING P-170-18 NOS, O RING P-260-18 NOS, O RING P-135-18 NI O RING P-32-3 NOS, O RING P18-12 NOS, O RING P-7-6 NOS	os, CGL APPROVE	ED	
		8	м	ANDATORY SPARE: TRIP COILS WITH RESISTOR	NO.	3	TRIPPING COIL 220VDC	CGL APPROVE	ED	
		9	М	ANDATORY SPARE: CLOSE COILS WITH RESISTOR	NO.	3	CLOSING COIL 220VDC	CGL APPROVE	ED	
: 454	D	10		ANDATORY SPARE: SET OF FIXED CONTACT CONTACTS, MOVING CONTACTS ID CONTACTS FOR PRE-INSERTION RESISTOR.	SET	3	SET COMPRISING OF 1) STATIONARY CONTACT -2 Nos 2) STATIONARY ARC CONTACT -2 Nos 3) MOVING CONTACT -2 Nos 4) MOVING ARC CONTACT -2 Nos 5) PUFFER CYLINDER -2 Nos	Nos los	ED	
) F	4	11	і м.	ANDATORY SPARE: PRE-INSERTION RESISTOR.	NO.	3	PRE INSERTION RESISTOR	CGL APPROVE	ED	
3		12	2 м	ANDATORY SPARE: MOLECULAR FILTER FOR SF6 CIRCUIT FOR 1 POLE	SET	1	ABSORBENT ZEOLUM F9 REQUIRED FOR ONE COMPLETE POLE-2 BAGS OF	350gm CGL APPROVE	ED	
		13	5 М	ANDATORY SPARE: GAS DENSITY MONITOR	NO.	2	SF6 GAS PRESSURE SWITCH	SAGINOMIYA/REG	SENCY	
		14	М	ANDATORY SPARE: OPERATING MECHANISM WITH MOTOR	NO.	2	OPERATING MECHANISM WITH SPRING CHARGING MOTOR	CGL APPROVE	ED	
=	C	15		ANDATORY SPARE: SET OF FIXED CONTACT CONTACTS, MOVING CONTACTS F ONE POLE	SET	1	SET COMPRISING OF 1) STATIONARY CONTACT -2 NO 2) STATIONARY ARC CONTACT -2 NO 3) MOVING CONTACT -2 No 4) MOVING ARC CONTACT -2 No	CGL APPROVE	ED	
		16	S M	ANDATORY SPARE: AUX. SWITCH	SET	1	COMPLETE SET OF AUX SWITCH FOR ONE POLE	SHIRKE/EQ.		
ŀ	\dashv	17	7 M.	ANDATORY SPARE: AIR PRESSURE SWITCH	NO.	1	NOT APPLICABLE AS BREAKER IS SPRING SPRING (NOT SPRING PNEUMATIC			
		18	+	ANDATORY SPARE: SF6 GAS PRESSURE SWITCH	NO.	1	SF6 GAS PRESSURE SWITCH	SAGINOMIYA/REGEI	NCY	
		19	+	ANDATORY SPARE: AIR PRESSURE GAUGE	NO.	1	NOT APPLICABLE AS BREAKER IS SPRING SPRING (NOT SPRING PNEUMATION			
		20	_	ANDATORY SPARE: CONTACTS FOR CIRCUIT ANDATORY SPARE: MCB/MCCB FOR DC CIRCUIT	NO.	1	AUXILIARY CONTACTORS 3NO+2NC, 220VDC DC MCB.C60H—DC.C CURVE.250V DC.16A.10kA	SCHNEIDER SCHNEIDER		
II ED	В	22	2 M	ANDATORY SPARE: MCB/MCCB FOR DC CIRCUIT ANDATORY SPARE: MCB/MCCB FOR AC CIRCUIT ANDATORY SPARE: SPARE FUSES FOR EACH TYPE & RATING	NO. SET	2 2	AC MCB,XC60,B CURVE,250V,16A,10KA FUSE IS NOT APPLICABLE MCB,XC60,C CURVE,250V,4A,10KA MCB,XC60,D CURVE,250V,16A,10KA	SCHNEIDER SCHNEIDER SCHNEIDER		
LIMILE		24	. м	ANDATORY SPARE: AUXILIARY RELAY	SET	1	1 SET=AUXILIARY RELAY 1NO+1NC,1NO.	PLA/EQ.		
_ []		25	+	ANDATORY SPARE: COMPLETE SET OF GASKETS	SET	2	COMPLETE SET OF GASKETS	CGL APPROVE	ED	
EAVE	\dashv	26				2	O RING P-32-3 NOS O RING P18-12 NOS	CGL APPROVE	ED	
SKE CKE		27		ANDATORY SPARE: ISOLATION VALVES, CONTROL VALVES & SAFETY VALVES OR AIR OR OIL SYSTEM	SET	1	DILO FEMALE PART-1 NO. END CONN(THREADED)DILO PART-1 NO.	DILO		
	5	<u> </u>		NAME PROJ			SWITCHYARD AT 1X800MW KOTHAGUDEM TPS, STAGE-VII,UNIT#12	TITLE: SPARES LIST	 THIRD ANGLE PR	ROJ
PION NO		REVISED AS PER CUSTOMER C		DIA TOUR			TELANGANA STATE POWER GENERATION CORP.LTD.	50D 40018455555 55 55	Crompton (Gre
⋛	3	PORTABLE SF6 GAS SYSTEM R				TANT NAMI	E: DEVELOPMENT CONSULTANTS PRIVATE LIMITED	FOR: 420KV,50KA, SP—SF GCB TYPE: 400—SFM—50/	SWITCHGEAR DI	IVISIO
CKOM	1	REVISED AS PER CUSTOMER CO					-L EE/111/KTPS-VII(1X800MW)/D.No.150/14,DT.:27/12/2014	300 III L. 700-3FM-30/	AMBAD, NASH i k	K.,
71	<u> </u>	O REVISION						ALL DIMENSIONS ARE IN mm	DRG.NO:TB-377-3	14.0

/2 R3															
 		TAGNAME	CATDESC						VISDESC	QUANT	RATING1	RATING2	RATING3	RATING4	MFG
-4463-03	-	3PT	PUSH BUTTON (RED) SHROUL	ED (NO)					3 PH.TRIP P.B.	1	250 VDC	10A			TEKNIC/CRAFTECH/D SQUA
ଥା.		8D1	MINIATURE CIRUIT BREAKER(DE	C MCB), C	CURVE	,			MCB.FOR DC1 CKT.	1	250VDC	16A	10KA	2 POLE	C&S/HPL/SCHNEIDER/SIE
4		8D2	MINIATURE CIRUIT BREAKER(DO	С МСВ), С С	CURVE				MCB.FOR DC2 CKT.	1	250VDC	16A	10KA	2 POLE	C&S/HPL/SCHNEIDER/SIE
		8D3-B	MINIATURE CIRUIT BREAKER(M	CB), C CURV	∕E				MCB FOR MOTOR	1	250V	6A	10kA	2 POLE	C&S/HPL/SCHNEIDER/SIE
DRG.NO.:EH5		8D3-R	MINIATURE CIRUIT BREAKER(M						MCB FOR MOTOR	1	250V	6A	10kA	2 POLE	C&S/HPL/SCHNEIDER/SIE
뛰		8D3-Y	MINIATURE CIRUIT BREAKER(M						MCB FOR MOTOR	1	250V	6A	10kA	2 POLE	C&S/HPL/SCHNEIDER/SIE
뇓	+	8SH	MINIATURE CIRUIT BREAKER(M	-					MCB.FOR HEATER & IL.C	T. 1	250V	16A	10kA	2 POLE	C&S/HPL/SCHNEIDER/SIE
ပ္ကါ		11-52	TRIP-NEUTRAL-CLOSE SW.(2T		SITION,	45deg AN	NGLE, S	SPRING RETURN .	TRIP-N-CLOSE SW.	1	250 VDC				SWITRON/ SHIRKE.
<u></u>		23SH(B)	THERMOSTAT FOR HEATER CO						THERMOSTAT	1	230 VAC		BIMETALLIC		APT/EQ.
		23SH(M)	THERMOSTAT FOR HEATER CO						THERMOSTAT	1	230 VAC		BIMETALLIC		APT/EQ.
		23SH(R)	THERMOSTAT FOR HEATER CO						THERMOSTAT	1	230 VAC		BIMETALLIC		APT/EQ.
ΙE	:	23SH(Y)	THERMOSTAT FOR HEATER CO						THERMOSTAT	1	230 VAC		BIMETALLIC		APT/EQ.
		43LR	LOCAL-REMOTE SWITCH (8L+	3R), 2 POSI1	TION, 9	Odeg, STA	AY PUT	TYPE	LOCAL REMOTE SW.		250 VDC	25A			SWITRON/ SHIRKE.
		47T	POLE DISCREPANCY TIMER						POLE DISC.TIMER	1	90V-270V DC/A		00185%-110	*	OMRON/EQ.
		47TX	AUX. CONTACTOR 3NO+2NC						CONT. FOR 47T	1	220VDC	ith=10A			C&S/HPL/SCHNEIDER/SIE
		47TX(A)	ADD ON BLOCK (4NO)						OLOGINO CO!!	<u> 1 </u>	000 1/50		-	-	C&S/HPL/SCHNEIDER/SIE
		52C(B)	CLOSE COIL FOR SP—SP						CLOSING COIL	1.	220 VDC	90 ohm	1	1	CGL/EQ.
	7	52C(R)	CLOSE COIL FOR SP-SP						CLOSING COIL	<u> 1</u>	220 VDC	90 ohm	-	-	CGL/EQ.
		52C(Y)	CLOSE COIL FOR SP-SP	CDD					CLOSING COIL	1-	220 VDC	90 ohm	+	+	CGL/EQ.
		52T1(B)	TRIP COIL(1) FOR 400kV SP						TRIP COIL-1	1	220 VDC	53 ohm	1		CGL/EQ.
		52T1(R)	TRIP COIL(1) FOR 400kV SP						TRIP COIL-1	- 1	220 VDC	53 ohm 53 ohm	+	+	CGL/EQ.
		52T1(Y)	TRIP COIL(1) FOR 400kV SP						TRIP COIL-1	1	220 VDC				CGL/EQ.
ם וי)	52T2(B)	TRIP COIL(2) FOR 400kV SP						TRIP COIL-2		220 VDC	53 ohm 53 ohm			CGL/EQ.
		52T2(R)	TRIP COIL(2) FOR 400kV SP						TRIP COIL-2		220 VDC				CGL/EQ.
ŕl		52T2(Y) 52Y(B)	TRIP COIL(2) FOR 400kV SP AUX. RELAY 1NO+1NC	SPR					TRIP COIL-2 ANTPG.RELAY		220 VDC 220VDC	53 ohm	+		CGL/EQ.
`		521(B) 52Y(R)	AUX. RELAY 1NO+1NC						ANTPG.RELAY	 	220VDC				PLA /EQ.
5			AUX. RELAY 1NO+1NC						ANTPG.RELAY		220VDC		+		
5 L		52Y(Y) 63GA(B)	GAS DENSITY SWTICH (Q6) AL	ADM (NO)-ON	N 6 E	ka /aa am	OFF -	7 O kg/gg am at 20dag C	ANTPG.RELAT		250 VDC		+		PLA /EQ. SAGINOMIYA/REGENCY
3 F	1	63GA(R)	GAS DENSITY SWTICH (Q6) AL						-		250 VDC		+	+	SAGINOMIYA/REGENCY
3 I		63GA(Y)	GAS DENSITY SWITCH (Q6) AL								250 VDC				SAGINOMIYA/REGENCY
-		63GL(B)	GAS DENSITY SWTICH (Q6) AL						C LOW GAS PR.L/O.		250 VDC		+		SAGINOMIYA/REGENCY
∠		63GL(R)	GAS DENSITY SWTICH (Q6) LC								250 VDC		+		SAGINOMIYA/REGENCY
-		63GL(Y)	GAS DENSITY SWTICH (Q6) LC							- 	250 VDC				SAGINOMIYA/REGENCY
_ C	:	63GLX	AUX. CONTACTOR 3NO+2NC	CROOT (NO)).OI I — C	J.O Kg/ Sq	1.0111,011	1-0.5 kg/ sq.cm at 20deg	CONT. FOR 63GL	1	220VDC	ith=10A	+		C&S/HPL/SCHNEIDER/SIE
-		63GLX(A)	ADD ON BLOCK (4NO)						CONT. FOR COGE	 	220100	Tui-10A			C&S/HPL/SCHNEIDER/SIE
		88M(B)	POWER CONTACTOR (3NO+1N	2)					CONT. FOR MOTOR	 	220VDC				C&S/HPL/SCHNEIDER/SIE
		88M(R)	POWER CONTACTOR (3NO+1N	•					CONT. FOR MOTOR	 	220VDC		1		C&S/HPL/SCHNEIDER/SIE
		88M(Y)	POWER CONTACTOR (3NO+1N						CONT. FOR MOTOR	 	220VDC		1		C&S/HPL/SCHNEIDER/SIE
L		88MB(A)	ADD ON BLOCK (2NC)	-,					CONTRACTOR MOTOR	 			1		C&S/HPL/SCHNEIDER/SIE
		NOTES:-	,						· — — — — — — — — — — — — — — — — — — —		AC CIRCUIT—BLAC E EARTHING—GREE	-	CIRCUIT &	SPARE	,
		1) ALIXILIARY SV	WITCHES ARE SHOWN FOR OPE	N BREAKER	R										
			ONTACTORS CONTACTS & CLOS			CLIOWN	INI		·						E PROVIDED FOR SUPPLY
"	, l	-		ING SPRING	G ARE	SHOWIN	IIN	=	TERMINALS O	ILY(AC&DC)	& STUD TYPE (CSTSB3) TERM	INAL BLOC	KS ARE PR	ROVIDED FOR REST.
LIMIIED B	1	DE-ENERGISE 3) GAS PRESSUI	<u>D POSITIO</u> N. <u>RE SWITCH IS SHOWN FOR NO</u>	GAS PRES	SSURE.	<u> </u>			9) <u>CONTINUOUS</u> 50mA TO CA		CARRYING CAPAC		COIL IS	=	
Ĭ			TE CHANGEOVER SWITCH IS SH			POSITION	N		10) 52a CONTA 11) 52b CONTA		EN WHEN BREAK			- -	
- 1		5)	1- ARE OPEN CON	ITACTS O					· · · <u>/</u>		D UPTO TERMINAL			-	
űμ	_							_	-			L BLUCKS FU	R REMOTE	-	
GREAVES		6) SIZE OF WIRI	—○(+)>— ARE CLOSE C E =2.5 sq.mm. (1100V GRADI			_			13) RATING & C		CUIT BREAKER. NFIG. OF COMPON	ENT SHALL E	BE PROVIDED	AS PER	ACTUAL REQUIREMENT
CROMPION	5	-							TCHYARD AT 1X800MW KOTHAGUDEM			ILL OF MA	TERIAL		THIRD ANGLE PROJECT
∹ A	4				$\overline{}$		PBJ		ANGANA STATE POWER GENER						Crompton Greave
<u></u>	-	/ISED AS PER M/			.1.16		AGJ		DEVELOPMENT CONSULTANTS	PRIVATE L					—
ΞĮ	2 NO	E NO.8 IS REVISE	D AS PER CUSTOMER COMMENTS	AGJ 2.1	11.15	APPD	HVS	CONTRACTOR: BHEL			GCB TY	PE: 400-SF	M-50AA		SWITCHGEAR DIVISION S
51	1 TRI	P COIL RESISTAN	ICE WAS 80 ohm.	AGJ 6.1	10.15	SCALE:	N.T.S.	. CUSTOMER LOA NO:CEE/	11/KTPS-VII(1X800MW)/D.No.15)/14,DT.:27/	12/2014				
_	NO	REVISI			_	-			& DATE: 145P105 DATED 1			NSIONS ARE I			RG.NO:EH5-4463-03 1

88 88 (18	AGNAME													
88 88 (18		CATDESC						VISDESC	OLIANT	RATING1	RATING2	RATING3	RATING4	MFG
88 (16 (16	8MR(A)	ADD ON BLOCK (2NC)						VISESS	1	TVATINOT	TOATHOZ	INATINOS	IVAIIIVOT	C&S/HPL/SCHNEIDER/SIEME
(18	8MY(A)	ADD ON BLOCK (2NC)							1		+			C&S/HPL/SCHNEIDER/SIEME
(11	1B)52	BKR AUXILIARY SWITCH (5NO+5NC)						AUX SWITCH	1	250 VDC	Ith=15A			SHIRKE/TURNING POINT/H.K
	1R)52	BKR AUXILIARY SWITCH (5NO+5NC)						AUX SWITCH	1	250 VDC	Ith=15A			SHIRKE/TURNING POINT/H.K
((1°	1Y)52	BKR AUXILIARY SWITCH (5NO+5NC)						AUX SWITCH	1	250 VDC	Ith=15A			SHIRKE/TURNING POINT/H.K
	2B)52	BKR AUXILIARY SWITCH (14N0+14N0	·)					AUX SWITCH	1	250 VDC	Ith=15A		<u> </u>	SHIRKE/TURNING POINT/H.K
	2R)52 2R)52	BKR AUXILIARY SWITCH (14NO+14NO	•					AUX SWITCH	 	250 VDC	Ith=15A			SHIRKE/TURNING POINT/H.K
	2Y)52 2Y)52	BKR AUXILIARY SWITCH (14NO+14NO	<u> </u>					AUX SWITCH		250 VDC	Ith=15A			SHIRKE/TURNING POINT/H.K
	CC1	AUX. RELAY 3C/O	•/					DC CHANGEOVER CONT.	1	220VDC	IIII-13A			PLA /EQ.
I I 	CC2	AUX. RELAY 1NO+1NC						DC2 SUPERVISION CONT.	1	220VDC				PLA /EQ.
E G		LED GREEN						BKR. OFF IND.		Universal type	24V-250V	AC /DC		TEKNIC/CRAFTECH/D SQUAR
	.(B)	ILLUMINATION LAMP (CFL)						ILL. LAMP	+;	230 VAC	8W	10,00	<u> </u>	CGL/EQ.
	.(MF)	• • • • • • • • • • • • • • • • • • • •						ILL. LAMP		230 VAC	8W			•
	• •	ILLUMINATION LAMP (CFL)												CGL/EQ.
1 I - `	.(MR)	ILLUMINATION LAMP (CFL)						ILL. LAMP	1	230 VAC	8W	-	1	CGL/EQ.
	.(R) .~\	ILLUMINATION LAMP (CFL)						ILL. LAMP	+ !-	230 VAC	8W	1	<u> </u>	CGL/EQ.
	<u>.(Y)</u>	ILLUMINATION LAMP (CFL)						ILL. LAMP		230 VAC	8W		-	CGL/EQ.
	S(B)	LIMIT SWITCH (1C/O)						LIMIT SW.	- 1	250 VDC	+		<u> </u>	OMRON/EQ.
	S(R)	LIMIT SWITCH (1C/O)						LIMIT SW.	11	250 VDC	+			OMRON/EQ.
	S(Y)	LIMIT SWITCH (1C/O)	DOING SEE				LIMIT SW.	1	250 VDC	1 /D ====::	0 /0 700***	ļ	OMRON/EQ.	
	I(B)	UNIVERSAL MOTOR FOR SPRING CHA				MOTOR-B	1	220 VDC	I/P 750W			KPT/EQ.		
	I(R)	UNIVERSAL MOTOR FOR SPRING CHA						MOTOR-R	1	220 VDC		0/P 360W		KPT/EQ.
 	I(Y)	UNIVERSAL MOTOR FOR SPRING CHA	RGING-C50					MOTOR-Y	1.	220 VDC		0/P 360W		KPT/EQ.
RL		LED RED						BKR. ON IND.	1	Universal type	24V-250V	AC/DC		TEKNIC/CRAFTECH/D SQUAF
	H(B)	ANTICONDENSATION HEATER						HEATER	1	250W	230V AC			APT/EQ.
	H(M)	ANTICONDENSATION HEATER						HEATER	1	100W	230V AC			APT/EQ.
	H(R)	ANTICONDENSATION HEATER ANTICONDENSATION HEATER						HEATER	1	250W	230V AC			APT/EQ.
	H(Y)							HEATER	1	250W	230V AC			APT/EQ.
so		SWITCH SOCKET UNIT						SWITCH SOCKET UNIT	1	250 VAC	15A			ANCHOR/EQ.
—	W(B)	SHROUDED PIANO SWITCH						SW.FOR IL.LAMP	1	230 VAC	5A			ANCHOR/EQ.
	W(MF)	SHROUDED PIANO SWITCH						SW.FOR IL.LAMP	1	230 VAC	5A			ANCHOR/EQ.
	W(MR)	SHROUDED PIANO SWITCH						SW.FOR IL.LAMP	1	230 VAC	5A			ANCHOR/EQ.
∟ <u> sw</u>	W(R)	SHROUDED PIANO SWITCH						SW.FOR IL.LAMP	1	230 VAC	5A			ANCHOR/EQ.
	W(Y)	SHROUDED PIANO SWITCH						SW.FOR IL.LAMP	1	230 VAC	5A			ANCHOR/EQ.
		STUD TYPE TERMINAL BLOCK-CSTSE						TERL. BLOCK ROW	118	750V	36A			CONNECTWELL/ELMEX
<u> XB</u>	B1	STUD TYPE TERMINAL BLOCK-CSTSE	3					TERL. BLOCK ROW	78	750V	36A			CONNECTWELL/ELMEX
<u> </u> xв	B3	TERMINAL BLOCK FOR MOTOR & LS	-CTS2.5(M)					TB ROW FOR MOTOR	2	750V	27A			CONNECTWELL/ELMEX
хм	мв	STUD TYPE TERMINAL BLOCK-CSTSE	3					TERL. BLOCK ROW	56	750V	36A			CONNECTWELL/ELMEX
XV	MR	STUD TYPE TERMINAL BLOCK-CSTSE					·	TERL. BLOCK ROW	56	750V	36A			CONNECTWELL/ELMEX
XM	MY	STUD TYPE TERMINAL BLOCK-CSTSE						TERL. BLOCK ROW	56	750V	36A			CONNECTWELL/ELMEX
XR	R1	STUD TYPE TERMINAL BLOCK-CSTSE	3					TERL. BLOCK ROW	81	750V	36A			CONNECTWELL/ELMEX
XR	R3	TERMINAL BLOCK FOR MOTOR & LS	-CTS2.5(M)					TB ROW FOR MOTOR	2	750V	27A			CONNECTWELL/ELMEX
l I XY	Y1	STUD TYPE TERMINAL BLOCK-CSTSE	3					TERL. BLOCK ROW	81	750V	36A			CONNECTWELL/ELMEX
	Y3	TERMINAL BLOCK FOR MOTOR & LS	-CTS2 5(M)					TB ROW FOR MOTOR	2	750V	27A			CONNECTWELL/ELMEX

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

1.	For any technical clarification , please contact Mr. Vijay Kumar, Sr. Manager (TBEM).						
	Contact No. 0120-06748537; e-mail: vijaykumar@bhel.in						
2.	For any commercial clarification, please contact Mr. Sandeep, Dy. Manager (TBMM).						
	Contact No. 0120-6748540; e-mail: kumar.sandeep@bhel.in						

3. Terms of Payment:

(Supply & Services)

As per GTC of GeM (Payment due date shall be 60 Days) Supply Payment:

- a) 100% of payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:
 - LR / GR duly endorsed by BHEL Site Official.
 - Material Receipt Certificate issued by BHEL Site Official.
 - GST Compliant Tax Invoice
 - Packing List (Case-wise)
 - Copy of Transit Insurance Certificate from underwriters.
 - Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management
 - Guarantee Certificate
 - Certificate of acceptance of Type Test Reports issued by BHEL Engineering Management wherever specifically mentioned in the Purchase Order

Vendor has to submit the duly signed check-list along with Bill.

4. Terms of Delivery:

As per GeM. However, unloading at site is in the scope of BHEL. Bidders to quote price accordingly.

5. Delivery Time:

16 Weeks (112 days) from the date of PO by BHEL as per Activity schedule (Annexure-A). Early Delivery is acceptable.

Note: In case, BHEL's delivery requirement is not met by vendor(s), then a chance may be given to all such vendors to review their quoted delivery schedule in line with BHEL's delivery requirement. However, if vendor fails to meet the requisite delivery plan, then BHEL reserves the right not to consider the offer of such vendor(s).

6. Prices:

The quoted prices shall be on **Firm basis including packing and forwarding charges**. Price to be quoted as inclusive of GST. i.e. Ex-Works + F&I + GST.

7. Liquidated Damage of delayed Delivery:

As per GeM terms and conditions.

8. Item & BOQ:

BOQ: As per Annexure

9. Technical Specification:

As per approved drawings of PO No. 145P105 Dated: 11.09.2015

10. Pre-Qualification Requirement:

NA

11. MQP (Manufacturing Quality Plan):

MQP format is indicative only, however inspection shall be carried out as per approved Quality Plan. Supplier has to submit Quality Plan to BHEL for Customer approval.

12. Inspection:

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

Inspe	ection shall be carried out as per customer as per approved Quality Plan.
13.	Destination / Delivery Location:

Shall be provided later

14. Bill to Address:

Bharat Heavy Electricals Limited-TBG, 10th Floor, Plot No.C-20/1A/1, Joy Tower, Sector-62, Noida-201301, U.P.

GSTN-09AAACB4146P2ZC

15. Guarantee Clause (Defect Liability Period):

The equipment / material supplied and services rendered (if applicable) shall be guaranteed to be free from all defects and faults in design & engineering, material, workmanship & manufacture and in full conformity with the Purchase Order / Contract, Technical Specifications & approved drawings / data sheets, if any, for 12 months from the date of last delivery.

16. Performance Bank Guarantee:

Not required being consumable & small value items.

- 17. Bidders to ensure that Third party / customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document / certificate issuing authority such as name & designation of Issuing Authority and its organization contact number and e-mail Id etc. In case the same found not available, Purchaser has right to reject such document from evaluation.
- **18.** Acceptance of Offer:

 $\mathsf{N}\mathsf{A}$

19. Deviations:

- a) Technical Deviation: No Technical Deviation is envisaged.
- b) Commercial Deviation: No Commercial Deviation is envisaged.
- **20.** All other terms & conditions shall be as per GTC of GeM

Note: This Purchase is against single tender being OEM items. The offer shall be accepted from M/s CG Power Industrial Solution only.

Signature & Seal of supplier Date

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

ACTIVITY SCHEDULE

SL. NO.	ACTIVITY	ACTIVITY TIME IN WEEKS
1.	Submission of documents necessary for getting manufacturing clearance Drawings, data sheets (In scope of vendor)	NA
2.	Review and Approval of documents and issue of manufacturing clearance (In scope of BHEL)	NA
3.	Manufacturing Time (In scope of vendor)	12
4.	Inspection (In scope of BHEL)	02
5.	Issue of MICC (In scope of BHEL)	01
6.	Dispatch (In scope of vendor)	01
7.		112 Weeks

- 1. Inspection call to be issued 01 weeks in advance.
- 2. Supplier must ensure the completeness and correctness of the requisite documents before submission for approval. Delay in approval on account of incomplete / inadequate information shall be the responsibility of supplier.
- 3. Inspection call should be given in the prescribed format only. Inspection calls not in the prescribed format shall not be entertained.

Signature & Seal of Supplier Date

Annexure-A

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

Annexure-V

Item/Package Name :	Supply of Circuit Breakers Spares
Enquiry No.:	
Project:	NTPC North Karanpura
Type of project	
Percentage of Local Content	(Bidder to enter the applicable % of local content)

04.06.2020.				Date:
IS/o, D/o,	, W/o,		_Resident of	
		hereby	solemnly affirm	n and declare as
under:				
That I will agree to abide by the terms and cond	ditions of the Pu	ublic Procureme	nt (Preference	to Make in India)
Order, 2017 (hereinafter PPP-MII order) of Gov	ernment of Indi	ia issued vide No	otification No: F	9-45021/2/2017-
BE-II dated 15/06/2017, its revision dated 04/0	06/2020 and any	subsequent mo	odifications/Am	endments, if any.
That the information furnished hereinafter is co	orrect to the be	st of my knowle	dge and belief	and I undertake to
produce relevant records before the procuring	entity/BHEL or	any other Gover	rnment authori	ty for the purpose
of assessing the local content of goods/services	s/works supplied	d by me for		<mark>(Enter the</mark>
name of the Equipment/Item for Project).				
That the local content for all inputs which cons	titute the said g	goods/services/v	vorks has been	verified by me
and I am responsible for the correctness of the	claims made th	nerein.		
That the goods/services/works supplied by me	for	(<mark>Ente</mark>	er the name of	<mark>the</mark>
Equipment/Item for Project) contains%	(mention the Lo	ocal content in %	<mark>6age)</mark> Local Cor	itent.
That the value addition for the purpose of mee (Enter the details of the location	_			ade by me at

That in the event of the local content of the goods/services/works mentioned herein is found to be incorrect and not meeting the prescribed supplier class categorization criteria as per said order, based on the assessment of procuring agency (i.e.)/BHEL/Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Integrity pact/ Bidding Documents.

I agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority.

i. Name and details of the Local Supplier (Registered Office, Manufacturing unit location, nature of legal entity)

ii. Date on which this certificate is issued

Page 1 of 2

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

Annexure-V

- iv. Goods/services/works for which the certificate is produced
- v. Procuring entity to whom the certificate is furnished
- v. Percentage of local content claimed and whether it meets the Minimum Local Content prescribed
- vi. Name and contact details of the unit of the Local Supplier (s)
- vii. Sale Price of the product
- viii. Ex-Factory Price of the product
- ix. Freight, insurance and handling
- x. Total Bill of Material
- xi List and total cost value of input used to manufacture the Goods/to provide services/in construction of works
- xii. List and total cost of input which are domestically sourced. Value addition certificates from suppliers, if the input is not in-house to be attached
- xiii. List and cost of inputs which are imported, directly or indirectly

For and on behalf of...... (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

SCHEDULE OF COMMERCIAL DEVIATION

The following are the deviations/ variations exception from the General Terms and Conditions:

SL. NO.	CLAUSE NO. OF TERMS AND CONDITIONS	STATEMENT OF DEVIATION
	NIL DEVIATION	NIL DEVIATION

In case, this schedule is not submitted, it will be presumed that the equipment /material to be supplied under this contract is deemed to be in compliance with the General Terms and Conditions.

If there is NIL deviation, even then the format to be filled as NIL DEVIATION.

Note: 1. Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.

2. Deviation mentioned in this schedule shall only be considered.

This Format is to be submitted in original duly signed by bidder. Reproduction of the same in any sort is not acceptable.

Signature of the authorized representative of

Place: õõõõõõõ

Designation: õõõõõõõõõõõõõõõõõõõõõ

Company

Seal: õõõõõõõõõõõõõõõõõõ

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

SCHEDULE OF TECHNICAL DEVIATION

The following are the deviations/ variations exception from the Technical Specifications:

SL. NO.	CLAUSE NO. OF TERMS AND CONDITIONS	STATEMENT OF DEVIATION
	NIL DEVIATION	NIL DEVIATION

In case, this schedule is not submitted, it will be presumed that the equipment /material to be supplied under this contract is deemed to be in compliance with the Technical Specifications,

If there is NIL deviation, even then the format to be filled as NIL DEVIATION.

Note : 1. Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.

2. Deviation mentioned in this schedule shall only be considered.

This Format is to be submitted in original duly signed by bidder. Reproduction of the same in any sort is not acceptable.

Signature of the authorized representative of

Place: $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$. Date: $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$ $\tilde{0}$.

Bidder's name : $\tilde{0}$ $\tilde{0}$

PROJECT:	TSGENCO KOTHAGUDEM
ITEM:	Supply of Spares items for 400kV CB
SUBJECT:	BID SPECIFIC ATC

UNPRICED BID

Item No.	Item Description	Item Quantity	Unit of Measure	Unit Price (Inclusive of F&I & GST)	GST % Applica ble
1	SPARES- CIRCUIT BREAKER : 420KV, RUBBER GASKETS, 'O' RINGS AND SEALS	03	SET	Mention as "Quoted"	Mention GST %
2	SPARES- CIRCUIT BREAKER: 400KV, TRIP COILS WITH RESISTOR	03	NO	Mention as "Quoted"	Mention GST %
3	SPARES- CIRCUIT BREAKER: 400KV, CLOSING COILS WITH RESISTOR	03	NO	Mention as "Quoted"	Mention GST %
4	SPARES- CIRCUIT BREAKER : 400KV, MOLECULAR FILTER	01	SET	Mention as "Quoted"	Mention GST %
5	SPARES- CIRCUIT BREAKER : 420KV, CONTACTS FOR CIRCUIT	01	NO	Mention as "Quoted"	Mention GST %
6	SPARES- CIRCUIT BREAKER : 420KV, MCB/MCCB FOR AC CIRCUIT	01	NO	Mention as "Quoted"	Mention GST %
7	SPARES- CIRCUIT BREAKER: 420KV, GASKET (OF EACH TYPE)	02	SET	Mention as "Quoted"	Mention GST %
8	SPARES- CIRCUIT BREAKER : 420KV, SEALS	02	SET	Mention as "Quoted"	Mention GST %
9	SUPPLY- CIRCUIT BREAKER: 420KV TRIP COILS WITH RESISTOR	03	NO	Mention as "Quoted"	Mention GST %
10	CIRCUIT BREAKER: 420KV, CLOSING SPRING CHARGING MOTOR WITH ASSEMBLY (220V DC)	03	NO	Mention as "Quoted"	Mention GST %
11	CIRCUIT BREAKER : 420KV, POLE DISCREPANCY TIMER	01	NO	Mention as "Quoted"	Mention GST %
12	CIRCUIT BREAKER : 420KV, POWER CONTACTORS	01	NO	Mention as "Quoted"	Mention GST %
13	CIRCUIT BREAKER : 420KV, AUXILIARY CONTACTORS	01	NO	Mention as "Quoted"	Mention GST %

Signature & Seal of Supplier Date: