

# ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଃ.

ODISHA POWER TRANSMISSION CORPORATION LIMITED
OFFICE OF THE GENERAL MANAGER (ELECTRICAL)
E.H.T. (0&M) CIRCLE, BURLA
9438907735, e-mail: ehtm.cle.brl@optcl.co.in
CIN: U401020R2004SGC007553

#### E-TENDER CALL NOTICE NO. BRL- 38/2022-23

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD General Manager, EHT (O&M) Circle, OPTCL, Burla, invites E-Tenders from Manufacturers/Authorized distributors/ Dealer having valid IT, PAN, GST Registration certificate, distributor/dealership certificate, in Single part bidding system for "Supply of 1no of ACDB, 1no of DCDB with Bus-Coupler arrangement, 7nos of BMK, 16nos of PT Junction boxes, 2nos of SFU for 2nos of Station Transformers & Disconnecting type TB for CT consol boxes for SAS work at 220/132/33KV Grid Sub-Station, Katapali under EHT (O&M) Division, Burla". The interested bidders would be required to enroll themselves on the tender portal <a href="www.tenderwizard.com/OPTCL">www.tenderwizard.com/OPTCL</a>. Complete set of bidding documents are available at <a href="www.tenderwizard.com/OPTCL">www.tenderwizard.com/OPTCL</a> from 02.12.2022 (14:00 Hrs) up to 20.12.2022 (17:00Hrs). Interested Bidder may visit OPTCL's official web site <a href="http://www.optcl.co.in">http://www.optcl.co.in</a> and <a href="www.tenderwizard.com/OPTCL">www.tenderwizard.com/OPTCL</a> for detail specification.

N.B:- All subsequent addendums/corrigendum to the tender shall be hosted in the OPTCL's official website <a href="http://www.optcl.co.in">http://www.optcl.co.in</a> and <a href="http://www.tenderwizard.com/OPTCL">www.tenderwizard.com/OPTCL</a> only.

GENERAL MANAGER (Elect.) EHT (O&M) CIRCLE, BURLA



### NOTICE INVITING TENDER ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଃ.

ODISHA POWER TRANSMISSION CORPORATION LTD., OFFICE OF THE GENERAL MANAGER (ELECTRICAL) E.H.T. (0&M) CIRCLE, BURLA

#### E-TENDER NOTICE NO- BRL-38/2022-23

For and on behalf of the ODISHA POWER TRANSMISSION CORPORATION LTD., the undersigned invites bids under single part bidding system in e-tendering mode only as per the following details.

			IN	NDIAN RUPEE	DIAN RUPEES		
SI. No	Tender Specificati on No.	Location Details.	Earnest Money Deposit	Cost of Tender Spec. Document (Including GST)	Tender Proces sing Fee.	Last date of submission & Date of opening of Tender.	
1	E - Tender No. 38/2022- 23	220/132/33KV Grid Sub- Station, Katapali under EHT (O&M) Division, Burla	NIL  (Bid Security AMD)  Declaration to be furnished in lieu of EMD)	Rs.7080/- [Only in the shape of DD]	Rs. 3698/-	up to dt- 21.12.2022 (13:30 Hrs) and (21.12.2022 at 15:30 hrs.)	

The bidders can view the tender documents from website free of cost.

The bidders who want to submit bid shall have to pay Rs.7080/- (Rupees Seven Thousand Eighty only including GST @ 18% non refundable) towards the tender cost, in the form of Demand draft only, drawn in favour of General Manager, E.H.T. (O&M) Circle, Burla at the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall have to submit non-refundable amount of Rs. 3698/- (Rupees Three thousand six hundred ninety-eight only) towards the tender processing fee through **e-payment** mode. Tender processing fee acknowledgement is to be submitted along with tender Paper cost at the office of the undersigned on or before the last date & time of submission of tender.

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The bidders shall scan the Demand Draft/Pay order/ Bank guarantee towards, Tender Cost and tender processing fee and upload the same in the prescribed form in .gif or .jpg format in addition to sending the original as stated above.

The prospective bidders are advised to register their user ID, Password, company ID from website <a href="www.tenderwizard.com/OPTCL">www.tenderwizard.com/OPTCL</a> by clicking on hyper link "Register Me".

Any clarifications regarding the scope of work and technical features of the tender can be had from the undersigned during office hours.

GENERAL MANAGER (ELECT.) E.H.T. (O&M) CIRCLE, BURLA

# TECHNICAL SPECIFICATION FOR PROCUREMENT OF 1NO OF ACDB, 1NO OF DCDB WITH BUS COUPLER ARRANGEMENT, 7NOS OF BMK, 16NOS OF PT JUNCTION BOXES, 2NOS OF SFU FOR 2NOS OF STATION TRANSFORMERS & DISCONNECTING TYPE TB FOR CT CONSOLE BOXES FOR SAS WORK AT GSS, KATAPALI

	INDOOR FLOOR MOUN		(O)		
SI. No.	TECHNICAL SPECIFIC	ATION OF ACDB			
1	Indoor Floor mounting type panel stands on a 75mm base channel				
2	All diamensions are in mm & ±10% acceptable				
3	Overall dimension of (4100(W)*2075(H)*600(E	)			
4	Panel made of 2.0 mm CR sheet Load bearing-		ad bearing-2mm CRCA		
5	Cable entry from bottom (Incoming & Outgoin	g)			
6	Design In front side bus bar & back side cable a	illey			
7	Detachable gland plates are provided (3mm th				
8	Consoled hinged doors will have flexiable earth	ning( 4samm copper w	vire) *		
9	Main earthing will be provided at the bottom of	of the panel (30×6 copp	per)		
10	Panel hooks will be provided at the top of the p				
11	Stickers are provided on the door of each feede				
12	50×10mm aluminium busbar-1 no per phase, 3 bar				
13	Neutral busbar half of the main busbar				
14	Red,yellow,blue & Black Heat shrinkable sleeve	s will be used for bush	oars.		
15	Panel will be properly gasketed with soft rubbe				
	Panel totally powder coated with Siemens grey				
16	Cover-orange, Buscoupler & Busbar Chamber c	over-Red)	over-blue, DG incomer		
16 17	Cover-orange, Buscoupler & Busbar Chamber c	over-Red)	over-blue, DG incomer		
	Cover-orange, Buscoupler & Busbar Chamber c Panel in single front & Both side accesable  DESCRIPTION	over-Red)  QNTY	UNIT *		
17 SL.	Cover-orange, Buscoupler & Busbar Chamber c Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)	over-Red)			
17 SL.	Panel in single front & Both side accesable  DESCRIPTION	over-Red)  QNTY	UNIT -		
17 SL. NO.	Cover-orange, Buscoupler & Busbar Chamber c Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C &	QNTY 4 4	UNIT * SETS Nos.		
17 SL. NO.	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accessable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK	QNTY 4	UNIT SETS  Nos.  Nos.		
17 SL. NO.	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB	QNTY  4  4  4  4	UNIT A SETS  Nos. Nos. Nos.		
17 SL. NO.	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-OD-(96X96) DIGITAL TYPE	QNTY  4  4  4	VNIT SETS  Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accessable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL	QNTY  4  4  4  4  4  4	Nos. Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC	QNTY  4  4  4  4  4  4  4  4	VNIT SETS  Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6 7	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC  6A AC VOLTMETER SELECTOR SWITCH	QNTY  4  4  4  4  4  4  4  4	Nos. Nos. Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6 7 8 9	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC  6A AC VOLTMETER SELECTOR SWITCH  R,Y,B INDICATION LAMP LED TYPE	QNTY  4  4  4  4  4  4  4  4  4	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6 7	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC  6A AC VOLTMETER SELECTOR SWITCH  R,Y,B INDICATION LAMP LED TYPE  CT-400/5A, C10.25, 15VA, METERING CLASS	QNTY  4 4 4 4 4 4 4 4 4 4 4 4 4	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6 7 8 9	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC  6A AC VOLTMETER SELECTOR SWITCH  R,Y,B INDICATION LAMP LED TYPE  CT-400/5A, C10.25, 15VA, METERING CLASS  6A SP MCB 10KA	QNTY  4  4  4  4  4  4  4  4  4  4  12	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6 7 8 9 10	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC  6A AC VOLTMETER SELECTOR SWITCH  R,Y,B INDICATION LAMP LED TYPE  CT-400/5A, C10.25, 15VA, METERING CLASS  6A SP MCB 10KA  AUXILIARY CONTARCTOR 2NO+2NC 230V AC	QNTY  4  4  4  4  4  4  4  4  4  12  12	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6 7 8 9 10 11 12 13	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC  6A AC VOLTMETER SELECTOR SWITCH  R,Y,B INDICATION LAMP LED TYPE  CT-400/5A, C10.25, 15VA, METERING CLASS  6A SP MCB 10KA  AUXILIARY CONTARCTOR 2NO+2NC 230V AC  ADD -ON BLOCK 2NO+2NC	QNTY  4  4  4  4  4  4  4  4  12  12  12	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.		
17 SL. NO. 1 2 3 4 5 6 7 8 9 10 11 12	Cover-orange, Buscoupler & Busbar Chamber of Panel in single front & Both side accesable  DESCRIPTION  400A(I/P ITEM)  400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK  AUXILARY TRIP ALRAM SWITCH FOR MCCB  UNDER VOLTAGE RELEASE FOR MCCB  MECHANICAL LOCK FOR MCCB  AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE  AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE  6A AMMETER SELECTOR SWITCH AC  6A AC VOLTMETER SELECTOR SWITCH  R,Y,B INDICATION LAMP LED TYPE  CT-400/5A, C10.25, 15VA, METERING CLASS  6A SP MCB 10KA  AUXILIARY CONTARCTOR 2NO+2NC 230V AC	QNTY  4  4  4  4  4  4  4  4  12  12  12  12	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.		

16	SPACE HEATER 100W 220V AC	2	Nos.
17	THERMO START 30-85C 220V AC	2	Nos.
18	10A DP AC MCB 10KA	6	Nos.
	BUS COUPLER(I/P ITEM)	1	SETS
19	400A FP 25KA MOTO-BASE WITH O/C ADJUSTABLE MAGNETIC WITH ROM & S.LINK	1	Nos.
20	MECHANICAL LOCK FOR MCCB	1	Nos.
21	AUXILIARY SWITCH FOR MCCB	1	Nos.
22	UNDERVOLTAGE RELEASE FOR MCCB	1	Nos.
23	AUXILIARY CONTRACTOR 2NO+2NC 230V AC	6	Nos.
24	ADD-ON BLOCK 2NO+2NC	6	Nos.
25	10A DP AC MCB 10KA	3	Nos.
26	TIMER	1	Nos.
27	AUTO LOCAL REMOTE SWITCH 3WAY	1	Nos.
	63A(OUTGOING)	32	SETS
28	MCCB-3P-63A-10KA-TM BASED WITH ROM	32	Nos.
29	POWER TB(STUD TYPE)	32	Nos.
	32A(OUTGOING)	16	SETS
30	MCCB-3P-32A-10KA-TM BASED WITH ROM	16	Nos.
31	POWER TB(STUD TYPE)	16	Nos.
32	CONTROL TB 25A(4SQMM)	50	Nos.
	PANEL DESCRIPTION		
33	ACDB panel as per technical specification	1	Lot
.B	All items should be make of C&S,L&T,ABB,ALSTOM,S	SIMENES HAVELLS and	aquivalent manufacture

1	AC voltage circuit:2.5SQ MM (Red,Yellow,Blue,Black)	6	6 SQMM copper flexible wire used for 32A MCCB	
2	AC Current circuit:2.5SQ MM (Red,Yellow,Blue,Black)	7	16 SQMM copper flexible wire used for 63A MCCB	
3	Earthing:4SQ MM (Green)			
4	DC control Circuit:2.5SQ MM (Grey)			
5	AC control circuit:2.5SQ MM (Black)			

Wire of(Mak	e:Polycab,Havells,Finolex,HPL) to be ι switchgear rating	used for different		nal details to be u Connectwell,Eler		
Sl.No	Copper Flexble wire size	S/G rating	SI.No	Terminal Size ( Clip on Type terminal)	S/G rating	
1	35 SQMM	100A	1	35 SQMM	100A	
2	25 SQMM	80A	2	25 SQMM	80A	
3 .	16 SQMM	60A	3	16 SQMM	60A	
4	10 SQMM	40A	4	10 SQMM	40A	
5	06 SQMM	32A	5	06 SQMM	32A	
6	04 SQMM	25A	6	04 SQMM	25A & below	
7	50 SQMM	125A	7	50 SQMM	125A	
8	2.5 SQMM	For CT	8	2.5 SQMM	For control	
9	2.5 SQMM	For control		Except for contro 0-4H stud typete		
Note:For 100	A & 80A rating switchgear suitable allu	minium busbar		used(Make:Electi		

	INDOOR FLOOR MO TECHNICAL SPEC	FICATION OF DCDE			
SI.No		particular of Panel			
1	Indoor Floor mounting type panel stands o				
2	All diamensions are in mm & ±10% accepta		, <u></u>		
3	Overall dimension of (1150(W)*1775(H)*50				
4	Panel made of 2.0 mm CR sheet Load bear		n load bearing-2mm CRCA		
5	Cable entry from bottom (Incoming & Outgoing)				
6	Design In front side bus bar & back side cab	ole alley			
7	Detachable gland plates are provided (3mn	n thickness)			
8	Consoled hinged doors will have flexiable e	arthing( 4sqmm copp	per wire)		
9	Main earthing will be provided at the botto				
10	Panel hooks will be provided at the top of t				
11	Stickers are provided on the door of each fe				
12	25×10mm copper busbar-1 no per phase, 3	bar			
13	Neutral busbar same of the main busbar	d in			
14	Red, yellow, blue & Black Heat shrinkable sle		busbars.		
15	Panel will be properly gasketed with soft ru		and the grant of the control of		
16	Panel totally powder coated with Siemens g	grey colour(Tfr incom	er cover-blue, DG incomer		
	Cover-orange, Buscoupler & Busbar Chamb	er cover-Red)			
17	Panel in single front & Both side accesable				
SI. No.	DESCRIPTION	QNTY	UNIT *		
	I/P ITEM				
	MCCB-3P/DP-100A-415VAC-25KA WITH				
1	ROM & S.LINK THERMAL MAGNETIC RELEASE	3	Nos.		
2	MECHANICAL LOCK FOR MCCB	3	Nos.		
3	AUXILARY+TRIP ALRAM SWITCH FOR MCCB	2	Nos.		
4	DC AMMETER 40-0-50A DIGITAL TYPE(96×96)	2	Nos.		
5	DC VOLTMETER-0-100 DIGITAL TYPE(96×96)	2	Nos.		
6	DC TRANSDUCER-AMMETER(4-20mA)	2	Nos.		
7	DC TRANSDUCER-VOLTMETER(4-20mA)	2	Nos.		
8	DC SHUNT 100A 75MV	2	Nos.		
9	DC E/F RELAY-220VDC,AUX SUP-240VAC	2	Nos.		
10	ON,OFF,TRIP INDICATION LAMP	6	Nos.		
11	6A DP MCB 10KA AC	4	Nos.		
12	PANEL LAMP	2	Nos.		
13	5A SWITCH WITH BOX	2	Nos.		
14	SPACE HEATER 100W 220V AC	2	Nos.		
15	THERMOSTART 30-85C 220V AC	2	Nos.		
16	AUXILARY CONTACTOR 2NO+2NC 230VAC	6	Nos.		
17	ADD-ON-BLOCK 2NO+2NC	5	Nos.		
	20A CONTROL FUSE BASE WITH 4A LINK	6	Nos.		
18	Mark the Control of t		INUS.		
18	OUTGOING				
18	OUTGOING MCB-32A-2P-DC-10KA	40	Nos.		

20	DCDB panel as per technical specification	1	LOT	
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N.B All items should be make of C&S,L&T,ABB,ALSTOM,SIMENES,HAVELLS and equivalent manufacture.

Following size flexible copper wire to be used for Control & Power wiring

1	AC voltage circuit:2.5SQ MM (Red,Yellow,Blue,Black)	6	6 SQMM copper flexible wire used for 32A MCB
2	AC Current circuit:2.5SQ MM (Red,Yellow,Blue,Black)		
3	Earthing:4SQ MM (Green)		
4	DC control Circuit:2.5SQ MM (Grey)		
5	AC control circuit:2.5SQ MM (Black)		

Wire of(Make:Polycab,Havells,Finolex,HPL) to be used for different switchgear rating			Terminal details to be used(MacConnectwell,Elemex)		
SI.No	Copper Flexble wire size	S/G rating	SI.No	Terminal Size (Clip on Type terminal)	S/G rating
1 .	35 SQMM	100A	1	35 SQMM	100A
2	25 SQMM	80A	2	25 SQMM	80A
3	16 SQMM	60A	3	16 SQMM	60A
4	10 SQMM	40A	4	10 SQMM	40A
5	06 SQMM	32A	5	06 SQMM	32A
6	04 SQMM	25A	6	04 SQMM	25A & below
7	50 SQMM	125A	7	50 SQMM	125A
8	2.5 SQMM	For CT	8	2.5 SQMM	For Control
9	2.5 SQMM	For control	Notes: Except for controlin all other rating 15		
Note:For 10 ousbar migh	OA & 80A rating switchgear suitable and be used.	Illuminium		typeterminal migh ke:Electrofiber)	t be

	SWITCH YARD BMK (7 Nos	.)			
	TECHNICAL SPECIFICATION OF SWITCHY	ARD BMK			
SI.No	<u>Technical particular of Pa</u>	nel			
1	Outdoor Floor mounting type panel stands on a 75x40x5m	nm base channe			
2	All diamensions are in mm & ±10% acceptable				
3	Overall dimension of (900(W)*1965(H)*450(D)				
4	Panel made of 3.0 mm CR sheet Load bearing- 3mm CRCA	& Non load bea	aring-3mm CRCA		
5	Cable entry from bottom (Incoming & Outgoing)				
6	Design In front side bus bar & back side cable alley				
7	Detachable gland plates are provided (3mm thickness)				
8 ,	Consoled hinged doors will have flexiable earthing (4sqmm copper wire)				
9	Main earthing will be provided at the bottom of the panel(25×5 copper)				
10	Panel hooks will be provided at the top of the panel				
11	Stickers are provided on the door of each feeder				
12	25×5mm aluminium busbar-1 no per phase, 3 bar				
13	Neutral busbar same of the main busbar				
14-	Red, yellow, blue & Black Heat shrinkable sleeves will be us	ed for busbars.			
15	Panel will be properly gasketed with soft rubber gasket.				
16	Colour totally painted with synthetic enamel paint smokey	gray as per IS-6	592		
17	Panel in single front & Both side accesable				
18	Top conopy shall be with 3mm aluminum alloy material				
SL. NO.	DESCRIPTION	QNTY	UNIT		
	I/P ITEM				

17	BMK panel as per technical specification	1	LOT
	PANEL DESCRIPTION		
16	MCB-6A-2P-10KA-AC-C CURVE	4	NOS
.5	MCB-10A-2P-10KA-AC-C-C CURVE	9	NOS
4	MCB-16A-TP+N-10KA-C CURVE	10	NOS
	OUTGOING		
13	NON DISCONNETING TYPE TB 35A	200	NOS
12	POWER TB 32A(10SQMM)	60	NOS
11	POWER TB 63A(STUD TYPE TB)	2	NOS
LO	MULTIFUNCTION TIMER	1	NOS
9	GANG BOX DOMESTIC-2SW+1 SOCKET	1	NOS
8	CLUSTERED LED-ASSLY-240VAC-22.5MM-RED	2	NOS
7	THERMOSTAT-(30-85)C-15A-250VAC+1NC+BRACK	1	NOS
6	SPACE HEATER-100W-230VAC	1	NOS
5	5A SWITCH WITH BOX	1	NOS
4	BULB HOLDER WITH BULKET	1	NOS
3	AUXILARY CONTACTOR 2NO+2NC 240V AC	1	NOS
2	CONTACTOR-FP-70A-240V AC COIL-4NO	2	NOS
1	MCB-63A-TP+N-10KA-AC-C CURVE	2	NOS°

N.B - All items should be make of C&S,L&T,ABB,ALSTOM,SIMENES,HAVELLS and equivalent manufacture.

	Following size flexible copper	wire to be u	sed for	Control & Power wirit	ng	
1	AC voltage circuit:2.5SQ MM (Red,Yellow,Blue,Black)	6	4 SQMM copper flexible wire used for 10A MC			
2	AC Current circuit:2.5SQ MM (Red,Yellow,Blue,Black)	7	6 SQMN MCCB	of copper flexible wire u	sed for 16A	
3	Earthing:4SQ MM (Green)				Part Plans	
4	DC control Circuit:2.5SQ MM (Grey)					
5	AC control circuit:2.5SQ MM (Black)				a range that	
Wire of	(Make:Polycab,Havells,Finolex,HPL) to be different switchgear rating	e used for	1	Terminal details to be us Connectwell,Elen		
SI.No	Copper Flexble wire size	S/G rating	SI.No	Terminal Size (Clip on Type terminal)	S/G rating	
1	35 SQMM	100A	1	35 SQMM	100A	
2	25 SQMM	80A	2	25 SQMM	808	
3	16 SQMM	60A	3	16 SQMM	* 604	
4	10 SQMM	40A	4	10 SQMM	404	
5	06 SQMM	32A	5	06 SQMM	32A	
6	04 SQMM	25A	6	04 SQMM	25A & below	
7	50 SQMM	125A	7	50 SQMM	125A	
8	2.5 SQMM	For CT	8	2.5 SQMM	For CT	
9	2.5 SQMM	For control	Notes:	Except for controlin all		
	100A & 80A rating switchgear suitable alight be used.	luminium		4H stud typeterminal r used(Make:Electrof		

	OUTDOOR KIOSK(SFU) (2 Nos.)
	TECHNICAL SPECIFICATION OF SWITCHING FUSE UNIT(SFU)
Sl.No	Technical particular of Panel
1	Outdoor Floor mounting type panel stands on a 75x40x5mm base channel
2	All diamensions are in mm & ±10% acceptable

3	Overall dimension of (1300(W)*1765(H)*600(D)				
4	Panel made of 3.0 mm CR sheet Load bearing- 3mm CRCA & Non load bearing-3mm CRCA				
5	Cable entry from bottom (Incoming & Outgoing)				
6	Design In front side bus bar & front side cable alley				
7	Detachable gland plates are provided (3mm thickness)				
8	Consoled hinged doors will have flexiable earthing( 4sqmm copper wire)				
9	Main earthing will be provided at the bottom of the panel (25×5 copper)				
10	Panel hooks will be provided at the top of the panel				
11	Stickers are provided on the door of each feeder				
12	100×10mm aluminium busbar-1 no per phase, 3 bar				
13	Neutral busbar same of the main busbar				
14	Red,yellow,blue & Black Heat shrinkable sleeves will be used for busbars.				
15	Panel will be properly gasketed with soft rubber gasket.				
16	Colour totally painted with synthetic enamel paint smokey gray as per IS-692				
17	Panel in single front & back side totally closed				
18	Top conopy shall be with 3mm aluminum alloy material				
SL. NO.	DESCRIPTION	QNTY	UNIT		
	I/P ITEM				
1	1000A ISOLATOR SWITCH(MCCB TYPE)	1	NO		
2	800A TPN SFU	1	NO		
4	800A HRC	3	NOS		
5	R,Y,B INDICATION LAMP	6	NOS		
6	20A CONTROL FUSE BASE WITH LINK	6	NOS		
	PANEL DESCRIPTION				
7	Outdoor Kiosk (SFU) panel as per technical specification	1 1 1 1	LOT		
N.B	All items should be make of C&S,L&T,ABB,ALSTC	M,SIMENES,HAVELLS	and equivalent manufacture.		
Control of the Control					

# Following size flexible copper wire to be used for Control wiring

1	AC voltage circuit:2.5SQ MM (Red, Yellow, Blue, Black)
2	AC Current circuit:2.5SQ MM (Red,Yellow,Blue,Black)
3	Earthing:4SQ MM (Green)
4	DC control Circuit:2.5SQ MM (Grey)
5	AC control circuit:2.5SQ MM (Black)

Wire of(Make:Polycab,Havells,Finolex,HPL) to be used for different switchgear rating			Terminal details to be used(Make: Connectwell,Elemex)		
SI.No	Copper Flexble wire size	S/G rating	SI.No	Terminal Size (Clip on Type terminal)	S/G rating
1 *	35 SQMM	100A	1	35 SQMM	100A
2	25 SQMM	80A	2	25 SQMM	80A
3	16 SQMM	60A	3	16 SQMM	60A
4	10 SQMM	40A	4	10 SQMM	40A
5	06 SQMM	32A	5	06 SQMM	32A
6	04 SQMM	25A	6	04 SQMM	25A & below
7 .	50 SQMM	125A	7	50 SQMM	125A
8	2.5 SQMM	For CT	8	2.5 SQMM	For CT
9	2.5 SQMM	For control	Notes: Except for controlin all other rating 150-4H stud typeterminal might be		
Note: For 10	Note: For 100A & 80A rating switchgear suitable alluminium			e:Electrofiber)	\

	132KV PT CO	NSOLE BOX (16 No	OS.)	
	TECHNICAL SPECIFIC	CATION OF PT CONSC	OLE BOX	
Sl.No				
1	Outdoor Floor mounting type panel st	ands on a 75x40x5mm	base channel	
2	All diamensions are in mm & ±10% acceptable			
3	Overall dimension of (450(W)*655(H)	*155(D)		
4	Panel made of 3.0 mm CR sheet Load bearing-3mm CRCA & Non load bearing-3mm CRCA			
5	Cable entry from bottom			
6	Detachable gland plates are provided (3mm thickness)			
7	Consoled hinged doors will have flexiable earthing( 4sqmm copper wire)			
8	Main earthing will be provided at the bottom of the panel(25×5 copper)			
9	Stickers are provided on the door of each feeder			
10	Panel will be properly gasketed with soft rubber gasket.			
11	Colour totally painted with synthetic enamel paint smokey gray as per IS-692			
12	Panel in single front & back side totally closed			
13	Disconnecting type TB of 4 sqmm size for 2.5 sqmm cable			
SL. NO.	DESCRIPTION	QNTY	UNIT	
	I/P ITEM			
1	DISCONNECTING TYPE TERMINAL	60	NOS	
2	PANEL LAMP	1	NO	
3	5A SWITCH WITH BOX	1	NO *	
	PANEL DESCRIPTION			
4	PT Consol panel as per technical specification	1	LOT	

N.B All items should be make of C&S,L&T,ABB,ALSTOM,SIMENES,HAVELLS and equivalent manufacture.

## ESTIMATE FOR DISCONNECTING TYPE TERMINAL BLOCK

SL. NO.	DESCRIPTION	QNTY	UNIT
1	Disconnecting type Terminal Block	2100	Nos.

GENERAL MANAGER (ELECT.) E.H.T. (O&M) CIRCLE, BURLA