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ODISHA POWER TRANSMISSION CORPORATION LIMITED

OFFICE OF THE GENERAL MANAGER (ELECTRICAL)

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

9438907735, e-mail: ehm.cle.brl@optcl.co.in

CIN: U40102OR2004SGC007553

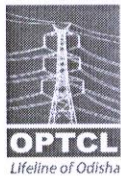
E-TENDER CALL NOTICE NO. BRL- 08/ 2023-24 (Group-A & B)

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 Double part bidding system under (Group-A & B) for **Group-A**-"Supply of 36 Nos. (27 Nos. of 220KV & 09 Nos. of 132KV) outdoor floor mounted BMK for the ongoing SAS work at 220/132/33KV Grid Sub-Station, Budhipadar under EHT (O&M) Division, Jharsuguda". **Group-B**-"Supply of 01 No. of Main ACDB, 01 No. of Auxiliary ACDB, 02 Nos. of SFU and 4200 Nos. of disconnecting type TB for the ongoing SAS work at 220/132/33KV Grid Sub-Station, Budhipadar under EHT (O&M) Division, Jharsuguda". The interested bidders would be required to enroll themselves on the tender portal www.tenderwizard.com/OPTCL. Complete set of bidding documents are available at www.tenderwizard.com/OPTCL from **28.07.2023 (11:00 Hrs) up to 17.08.2023 (17:00Hrs)**. Interested Bidder may visit OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL for detail specification.

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

Signature
27/07/2023

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



ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Government of Odisha Undertaking)

OFFICE OF THE GENERAL MANAGER (ELECT)

EHT (O & M) CIRCLE, BURLA

P.O.-BURLA, DIST-SAMBALPUR (ODISHA) PIN- 768017

CIN: U40102OR2004SGC007553

E-TENDER CALL NOTICE NO. BRL-08/2023-24 Group-A & B **(TWO PART BIDDING)**

Sealed tenders in duplicate are invited in two part bidding system by the undersigned from the Manufacturers/Authorized distributors/ Dealer having valid IT, PAN, GST Registration certificate, distributor/dealership certificate for following;

<i>Group</i>	<i>DESCRIPTIONS</i>	<i>EMD Rs.</i>	<i>COST OF TENDER PAPER Rs.</i>
A	Supply of 36 Nos. (27 Nos. of 220KV & 09 Nos. of 132KV) outdoor floor mounted BMK for the ongoing SAS work at 220/132/33KV Grid Sub-Station, Budhipadar under EHT (O&M) Division, Jharsuguda.	Rs. 48,790/-	7080.00 Inclusive of GST @ 18 %
B	Supply of 01 No. of Main ACDB, 01 No. of Auxiliary ACDB, 02 Nos. of SFU and 4200 Nos. of disconnecting type TB for the ongoing SAS work at 220/132/33KV Grid Sub-Station, Budhipadar under EHT (O&M) Division, Jharsuguda.	Rs. 34,120/-	7080.00 Inclusive of GST @ 18 %

Date of sale of tender paper

From 28.07.2023 to 17.08.2023 up to 17:00Hrs. at
www.tenderwizard.com/OPTCL

**Last date & Time of Receipt of
Tender paper**

On or before 18.08.2023 up to 13:00 Hrs.

**Date of opening of Tender paper
(Technical bid only)**

On 18.08.2023 at 16:00Hrs. at EHT (O&M)
Circle, Burla.

**Date of opening of financial bid
(those who have qualified in technical
bid only)**

Will be intimated later (those who have qualified
in technical bid)

The tender specification can be made available in the www.tenderwizard.com/OPTCL.

The tender must be accompanied with requisite EMD in shape of DD/Pay order only in favor of "EHT (O&M) Circle, OPTCL, Burla" payable at Burla. The undersigned shall not be responsible for non receipt or late receipt of tender documents due to postal delay or delay at any stage. Incomplete tender and the tender received after the due date and time shall be liable for rejection. Incomplete tender, tender without EMD and the tender received after the due date and time shall be liable for rejection.

The undersigned reserves the right to vary any quantity/accept or reject any or all the tenders without assigning any reason thereof.


General Manager (Elect)
E.H.T. (O&M) Circle, Burla



NOTICE INVITING TENDER
ODISHA POWER TRANSMISSION CORPORATION LIMITED
OFFICE OF THE GENERAL MANAGER (ELECTRICAL)
EHT (O & M) CIRCLE, BURLA
E-mail: ehm.cle.brl@optcl.co.in
CIN: U40102OR2004SGC007553

E-TENDER NOTICE NO- BRL-08/ 2023-24 (GROUP-A & B)

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

Sl. No.	Tender Specification No.	Location Details.	INDIAN RUPEES			Last date of submission & Date of opening of Tender.
			Earnest Money Deposit.	Cost of Tender Spec. Document (Including GST)	Tender Processing Fee.	
1	E -TenderNo. 08/ 2023-24 (Group-A)	220/132/33KV Grid Sub-Station, Budhipadar under EHT (O&M) Division, Jharsuguda	Rs. 48,790/-	Rs.7080/- [Only in the shape of DD]	Rs. 5758/-	up to dt- 18.08.2023 (13:00 Hrs) and 18.08.2023 (16:00 hrs.)
2	E -TenderNo. 08/ 2023-24 (Group-B)		Rs. 34,120/-		Rs. 4026/-	

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

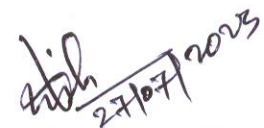
The bidders who want to submit bids shall have to pay Rs.7080/- (Rupees Seven Thousand Eighty only including GST @ 18% non refundable) towards the tender cost (For each group), **in the form of Demand draft only**, drawn in favour of General Manager, E.H.T. (O&M) Circle, Burla at the office of the undersigned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

The bidders shall have to submit non-refundable amount as mentioned above towards the tender processing fee for each tender 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.

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 www.tenderwizard.com/OPTCL 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.

Handwritten signature and date: 27/07/2023

General Manager (Elect)
E.H.T. (O&M) Circle, Burla

TECHNICAL SPECIFICATION FOR GROUP-A

"PROCUREMENT OF 36 NOS. (27 NOS. OF 220KV & 09 NOS. OF 132KV) OUTDOOR FLOOR MOUNTED BMK FOR THE ONGOING SAS WORK AT 220/132/33KV GRID SUB-STATION, BUDHIPADAR UNDER EHT (O&M) DIVISION, JHARSUGUDA"

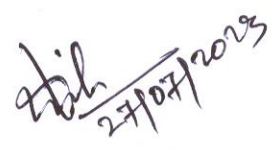
<u>TECHNICAL SPECIFICATION OF SWITCHYARD BMK</u>			
Sl. No.	<u>Technical particular of Panel</u>		
1	Outdoor Floor mounting type panel stands on a 75x40x5mm base channel		
2	All diamensions are in mm & ±10% acceptable		
3	Overall dimension of (900(W)*1965(H)*450(D)		
4	Panel made of 3.0 mm CR sheet Load bearing- 3mm CRCA & Non load bearing-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 flexible earthing (4sqmm copper wire)		
9	Main earthing will be provided at the bottom of the panel (25×5mm copper flat)		
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 bars		
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 & Both side accessible		
18	Top conopy shall be with 3mm aluminum alloy material		
SL. NO.	DESCRIPTION	QNTY	UNIT
	<u>I/P ITEM</u>		
1	MCB-63A-TP+N-10KA-AC-C CURVE	2	NOS
2	CONTACTOR-FP-70A-240V AC COIL-4NO	2	NOS
3	AUXILARY CONTACTOR 2NO+2NC 240V AC	1	NOS
4	BULB HOLDER WITH BULKET	1	NOS
5	5A SWITCH WITH BOX	1	NOS
6	SPACE HEATER-100W-230VAC	1	NOS
7	THERMOSTAT-(30-85)C-15A-250VAC+1NC+BRACK	1	NOS
8	CLUSTERED LED-ASSLY-240VAC-22.5MM-RED	2	NOS
9	GANG BOX DOMESTIC-2SW+1 SOCKET	1	NOS
10	MULTIFUNCTION TIMER	1	NOS
11	POWER TB 63A(STUD TYPE TB)	2	NOS
12	POWER TB 32A(10SQMM)	60	NOS
13	NON DISCONNECTING TYPE TB 35A	200	NOS
	<u>OUTGOING</u>		
14	MCB-16A-TP+N-10KA-C CURVE	10	NOS
15	MCB-10A-2P-10KA-AC-C-C CURVE	9	NOS
16	MCB-6A-2P-10KA-AC-C CURVE	4	NOS
	<u>PANEL DESCRIPTION</u>		
17	BMK panel as per technical specification	1	LOT

N.B - All items should be make of C&S, L&T, ABB, ALSTOM, SIMENES, HAVELLS, HAGER or equivalent reputed 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	4 SQMM copper flexible wire used for 10A MCB
2	AC Current circuit:2.5SQ MM (Red,Yellow,Blue,Black)	7	6 SQMM copper flexible wire used for 16A MCCB
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, Anchor) to be used for different switchgear rating			Terminal details to be used (Make: Connectwell, Elemex)		
Sl. No.	Copper Flexible wire size	S/G rating	Sl. 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 controlling all other rating 150-4H stud type terminal might be used(Make: Electro fiber)		
Note: For 100A & 80A rating switchgear suitable alluminium busbar might be used.					


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

TECHNICAL SPECIFICATION FOR GROUP-B

“SUPPLY OF 01 NO. OF MAIN ACDB, 01 NO. OF AUXILIARY ACDB, 02 NOS. OF SFU AND 4200 NOS. OF DISCONNECTING TYPE TB FOR THE ONGOING SAS WORK AT 220/132/33KV GRID SUB-STATION, BUDHIPADAR UNDER EHT (O&M) DIVISION, JHARSUGUDA”

ESTIMATE FOR INDOOR FLOOR MOUNTED MAIN ACDB PANEL (1 No)			
TECHNICAL SPECIFICATION OF ACDB			
Sl. No.	Technical particular of Panel		
1	Indoor Floor mounting type panel stands on a 75 X 40 X 5 mm base channel		
2	All diamenions are in mm & +10% acceptable		
3	Overall diamension of 3800(W)*2125(H) *1250(D)		
4	Panel made of 2.0 mm CR sheet Load bearing 2mm CRCA & Non load bearing 2mm CRCA		
5	Cable entry from bottom (Incoming & Outgoing)		
6	Design In fron t 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(30x6 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 X 10mm aluminium busbar- 1 no per phase, 3 bar		
13	Neutral busbar half 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 Sy. Enamel paint smoke gray as per IS-692.		
17	Panel in single front & Both side accesable		
SL NO	DESCRIPTION	QNTY	UNIT
	Part A(800A Incomer 1&2)	2 SETS	
1	ACB-800A-3P-EDO-MP-50KA-415VAC-O/L,S/C WITH SPRING CHARGE LIMIT SWITCH & COMMON TRIP MICRO SWITCH,SPING CHARGE MOTOR 220V DC, 4NO+4NC AUX.CONTACTS,220V DC SHUNT TRIP, 220V DC CLOSING COIL & 220V AC UV RELEASE & MECHANICAL LOCK	2	SETS
2	TNC SWITCH 10A	2	Nos.
3	NEMORICAL RELAY	2	Nos.
4	CLUSTERED LED-ASSLY-240VAC-22.5MM-RED	2	Nos.
5	CLUSTERED LED-ASSLY-240VAC-22.5MM-YELLOW	2	Nos.
6	CLUSTERED LED-ASSLY-240VAC-22.5-BLUE	2	Nos.
7	CLUSTERED LED-ASSLY-220VDC-22.5MM-RED	2	Nos.
8	CLUSTERED LED-ASSLY-220VDC-22.5MM-GREEN	2	Nos.
9	CLUSTERED LED-ASSLY-220VDC-22.5MM-AMBER	2	Nos.
10	CLUSTERED LED-ASSLY-220VDC-22.5MM-BLUE	2	Nos.
11	CLUSTERED LED-ASSLY-220VDC-22.5MM-WHITE	2	Nos.
12	RESET PUSH BOTTOM	2	Nos.
13	EMERGENCY PUSH BOTTOM	2	Nos.
14	CT-800/1A-CI5P10-15VA-RESIN	8	Nos.
15	MCB-6A-1P-AC-10KA-C CURVE	12	Nos.
16	PT 415/110V 50VA	2	Nos.
17	AUXILARY CONTACTOR 2NO+2NC 230V DC	6	Nos.
18	CONT-AUX BLOCK-2NO+2NC	6	Nos.
19	PANEL LAMP	2	Nos.
20	DOOR LIMIT SWITCH	2	Nos.
21	SPACE HEATER 100W 220V AC	2	Nos.
22	THERMOSTART 30-85C 220V AC	2	Nos.

23	10A DP DC MCB 6KA	2	Nos.
24	16A DP DC MCB 6KA	1	Nos.
25	10A DP AC MCB 10KA	4	Nos.
26	ON DELAY TIMER	4	Nos.
Part B (BUSCOUPLER)			
800A(1Set)			
27	ACB-800A-FP-EDO-MP-50KA-415VAC-O/L,S/C WITH SPRING CHARGE LIMIT SWITCH & COMMON TRIP MICRO SWITCH,4NO+4NC AUX.CONTACTS,220V DC SHUNT TRIP, 220V DC CLOSING COIL & 220V AC UV RELEASE & MECHANICAL LOCK	1	Nos.
28	CLUSTERED LED-ASSLY-220VDC-22.5MM-RED	2	Nos.
29	CLUSTERED LED-ASSLY-220VDC-22.5MM-GREEN	1	Nos.
30	CLUSTERED LED-ASSLY-220VDC-22.5MM-AMBER	1	Nos.
31	CLUSTERED LED-ASSLY-220VDC-22.5MM-BLUE	1	Nos.
32	CLUSTERED LED-ASSLY-220VDC-22.5MM-WHITE	1	Nos.
33	TNC SWITCH 10A	1	Nos.
34	RESET PUSH BOTTOM	1	Nos.
35	EMERGENCY PUSH BOTOM	1	Nos.
36	AUTO LOCAL REMOTE SWITCH 3WAY	1	Nos.
37	10A DP DC MCB 6KA	1	Nos.
38	10A DP AC MCB 10KA	3	Nos.
39	AUXILARY CONTACTOR 2NO+2NC 230V DC	3	Nos.
40	CONT-AUX BLOCK-2NO+2NC	3	Nos.
41	AUXILARY CONTACTOR 2NO+2NC 230V AC	3	Nos.
42	ADD-ON BLOCK 2NO+2NC	3	Nos.
100A(8 sets)			
43	MCCB-3P-100A-10KA-TM BASED WITH ROM & S.LINK	8	Nos.
250A(6 Sets)			
44	MCCB-3P-250A-25KA-TM BASED WITH ROM & S.LINK	6	Nos.
400A(2Sets)			
45	MCCB-FP-400A-25KA-TM BASED WITH ROM & S.LINK	2	Nos.
46	CONTROL TB 25A (4SQMM)	180	Nos.
MAIN ACDB PANEL			
47	Panel made of 2.0 mm CR sheet Load bearing 2mm CRCA & Non load bearing 2mm CRCA of Size 3800(W)*2125(H) *1250(D) and as per TS.		LS

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)				
2	AC Current circuit:2.PSQ 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)		
Sl. No.	Copper Flexible wire size	S/G rating	Sl. 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 controlling all other rating 150- 4H stud type terminal might be used (Make:Electrofiber)
Note: For 100A & 80A rating switchgear suitable alluminium busbar might be used.			

ESTIMATE FOR INDOOR FLOOR MOUNTED AUXILIARY ACDB (01 NO)			
TECHNICAL SPECIFICATION OF ACDB			
Sl. No	Technical particular of Panel		
1	Indoor Floor mounting type panel stands on a 75mm base channel		
2	All dimensions are in mm & $\pm 10\%$ acceptable		
3	Overall dimension of (4100(W)*2075(H) *600(D)		
4	Panel made of 2.0 mm CR sheet Load bearing 2mm CRCA & Non load bearing 2mm 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 flexible earthing(4sqmm copper wire)		
9	Main earthing will be provided at the bottom of the panel(30x6 copper)		
10	Panel hooks will be provided at the top of the panel		
11	Stickers are provided on the door of each feeder		
12	50x10mm aluminium busbar- 1 no per phase, 3 bar		
13	Neutral busbar half 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	Panel totally powder coated with Siemens grey colour (Tfr incomer cover-blue, DG incomer Cover- orange, Buscoupler & Busbar Chamber cover-Red)		
17	Panel in single front & Both side accesable		
SL NO.	DESCRIPTION	QNTY	UNIT
	400A(I/P ITEM)	4	SETS
1	400A FP 25KA MOTO-BASE WITH O/C & ADJUSTABLE MAGNETIC WITH ROM & S. LINK	4	Nos.
2	AUXILIARY TRIP ALARM SWITCH FOR MCCB	4	Nos.
3	UNDER VOLTAGE RELEASE FOR MCCB	4	Nos.
4	MECHANICAL LOCK FOR MCCB	4	Nos.
5	AC VOLTMETER-0-500V-0D-(96X96) DIGITAL TYPE	4	Nos.
6	AC AMMETER -0-400A/5A 90D-96 DIGITAL TYPE	4	Nos.
7	6A AMMETER SELECTOR SWITCH AC	4	Nos.
8	6A AC VOLTMETER SELECTOR SWITCH	4	Nos.
9	R,Y,B INDICATION LAMP LED TYPE	12	Nos.
10	CT-400/5A, C10.25, 15VA,METERING CLASS	12	Nos.
11	6A SP MCB 10KA	12	Nos.
12	AUXILIARY CONTACTOR 2NO+2NC 230V AC	12	Nos.
13	ADD -ON BLOCK 2NO +2NC	8	Nos.
14	PANEL LAMP	2	Nos.
15	DOOR LIMIT SWITCH	2	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.
	BUSCOUPLER(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-3 P-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		
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	AC control circuit:2.5SQ MM (Black)		
2	AC Current circuit:2.PSQ MM (Red,Yellow,Blue,Black)	7	6 SQMM copper flexible wire used for 32A MCCB		
3	Earthing:4SQ MM (Green)				
4	DC control Circuit:2.5SQ MM (Grey)	8	16 SQMM copper flexible wire used for 63A MCCB		
5	AC control circuit:2.5SQ MM (Black)				
6	6 SQMM copper flexible wire used for 32A MCCB				
7	16 SQMM copper flexible wire used for 63A MCCB				
Wire of(Make:Polycab,Havells,Finolex,HPL) to be used for different switchgear rating		Terminal details to be used(Make: Connectwell,Elemex)			
Sl. No	Copper Flexible wire size	S/G rating	Sl.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 controlling all other rating 150-4H stud type terminal might be used (Make: Electrofiber)		
Note: For 100A & 80A rating switchgear suitable alluminium busbar might be used.					

ESTIMATE FOR OUTDOOR FLOOR MOUNTED SWITCHING FUSE UNIT(SFU) (02 NOS)	
TECHNICAL SPECIFICATION OF SWITCHING FUSE UNIT(SFU)	
Technical particular of Panel	
1	Outdoor Floor mounting type panel stands on a 75x40x5mm base channel
2	All dimensions are in mm & $\pm 10\%$ 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 flexible earthing(4sqmm copper wire)
9	Main earthing will be provided at the bottom of the panel(25 x 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	100x10mm 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 15-692
17	Panel in single front & back side totally closed
18	Top canopy shall be with 3mm aluminium alloy material

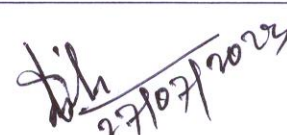
SL. NO.	DESCRIPTION	QNTY	UNIT
	I/P ITEM		
1	1000A ISOLATOR SWITCH(MCCB TYPE)	1	NO
2	800A TPN SFU	1	NO
3	800A HRC	3	NOS
4	R,Y,B INDICATION LAMP	6	NOS
5	20A CONTROL FUSE BASE WITH LINK	6	NOS
6	PANEL DESCRIPTION		
7	Outdoor Kiosk (SFU) panel as per technical specification	1	LOT

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

Following size flexible copper wire to be used for Control & Power 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)	
Sl. No	Copper Flexible wire size	S/G rating	Sl. 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	10SQMM	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 controlling all other rating 150-4H Stud type terminal might be used (Make: Electro fiber)		
Note: For 100A & 80A rating switchgear suitable aluminium busbar might be used.					


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