

**CORRIGENDUM -8 FOR NIT: NIT NO CMC/BR/22-23/RB/PR/KG/1054 DT 06.08.2022\_Survey, Design, Supply, Installation, Testing and Commissioning including Civil Works of 66/11 kV AIS Grid substation with 2 PTRs on Single point responsibility basis at Bakkarwala**

**CORRIGENDUM DATE: 28<sup>th</sup> Nov 2022**

<b>Sl. No.</b>	<b>Clause no.</b>	<b>Clause Description</b>	<b>Revised</b>
1	Section-II ITB clause no 2.0 Scope of Work	The scope of the work is as per BOQ in the tender.	The Digital Substation part stands withdrawn from the Technical Specifications. All Equipment & works related to digital substation (viz. Merging unit, Associated IEDs etc) shall not be a part of the said tender.  <b>Revised BOQ for Supply &amp; ETC attached as Annexure-1 to the corrigendum.</b>  <b>BOQ for Civil scope remains unchanged.</b>
2	Section-I RFQ clause no 1.02	Due date for Bid submission	Due date for bid submission has been extended up to 05.12.2022

## ANNEXURE-I

### SECTION V PRICE FORMAT – Supply

<b>66/11kV Bakkakrwa SS with 2 PTR with provision of 3rd PTR supply</b>								
S.No.	Item Description	Quantity	UOM	Basic (Rs)	Freight (Rs)	GST (Rs)	Unit Landed (Rs)	Total Landed Cost (Rs)
1	66/11KV 31.5 MVA Power Transformer including NIFPS	2	Set					
2	AL Pipe bus bar	1	Lot					
3	66kV 3 Pole SF6 circuit Breaker along with support structures	8	Nos					
4a	66kV Current Transformer (1600-800/1-1-1-1A)	12	Nos					
4b	66kV Current Transformer (2000/1-1A)	3	Nos					
4c	66kV Current Transformer (400-200/1-1-1-1A)	9	Nos					
5	66kV Potential Transformer	6	Nos					
6	66kV CVT	12	Nos					
7a	Horizontally Rotating double break motorized isolators with one earth switch (2000A)	13	Nos					
7b	Horizontally Rotating double break motorized isolators with one earth switch (1250A)	3	Nos					
8	Horizontally rotating double break motorized isolator with 2 earth switch	2	Nos					
9	Horizontally rotating double break motorized Tendem isolator without earth switch	7	Nos					
10	Bay Marshaling Kiosk	8	Nos					
11	Galvanized lattice type Gantry structure with tower and Beam including Civil work	1	Lot					
12	String bus including twin zebra ACSR conductor for bus coupler and jumpering	1	Lot					
13	Double and single suspension tension string hardware assembly for Quard Zebra	1	Lot					
14	Support Structure for all equipments including post insulators	1	Lot					
15	Station aux Transformer 11/0.433kV 400kVA	1	No					
16	66kV Control Relay Panel							
16a	66kV Control Relay Panel Line Feeder	4	Set					
16b	66kV Control Relay Panel Transformer Feeder	3	Set					

16c	66kV Control Relay Panel Bus coupler Feeder	1	Set					
17	220V Li-Ion Battery bank	1	Set					
18	DCDB with battery charger	1	Nos					
19	ACDB	1	Nos					
20	11kV APFC 4 Stage, 7.2 MVAR capacitor bank with motorized isolator	2	Sets					
21	11kV APFC 2 Stage, 3.6 MVAR capacitor bank with motorized isolator	2	Sets					
22	66kV single phase gapless metal oxide surge arrester	21	Nos					
23	66kV Bus Post Insulator including civil work	1	Lot					
24	Cable Mounting Structure including civil work	4	Set					
25	LA Mounting Structure including civil work	21	Nos					
26	SCADA RTU	1	Set					
27	11kV VCB switchgear with numerical protective relays(as per SLD)		Set					
27a	11kV VCB switchgear with numerical protective relays(as per Tender SLD)-Incoming	4	Set					
27b	11kV VCB switchgear with numerical protective relays(as per Tender SLD)-Buscoupler	2	Set					
27c	11kV VCB switchgear with numerical protective relays(as per Tender SLD)-outgoing	30	Set					
27d	11kV VCB switchgear with numerical protective relays(as per Tender SLD)-Station Transformer	1	Set					
27e	11kV VCB switchgear with numerical protective relays(as per Tender SLD)-Capacitor (7.2 MVAR)	2	Set					
27f	11kV VCB switchgear with numerical protective relays(as per Tender SLD)-Capacitor (3.6 MVAR)	2	Set					
27g	11kV VCB switchgear Bus PT with riser with numerical protective relays(as per SLD)	2	Set					
27h	11kV VCB switchgear Bus PT Panel with numerical protective relays(as per SLD)	2	Set					
27i	Earthing trucks for 11KV Panels -Bus Earthing Truck	2	Set					
27j	Earthing trucks for 11KV Panels -Cable Earthing Truck	2	Set					
28	Grounding and earthing of entire substation including earthing of transformer fence and capacitor bank fence	1	Set					
29	High mast lighting 16M for Lighting cum Lightening Protection	4	Nos					
30	Indoor LED lighting system including	1	Lot					

	emergency lighting							
31	Air conditioning for complete substation building except Toilet and Pantry	1	Lot					
32	Exhaust and Ventillation for Toilet, Pantry	1	Lot					
33	Building and outdoor lightning protection system	1	Lot					
34	Control cables including terminations and Glands							
a	6CX4Sqmm	2000	Mtr					
b	6CX2.5Sqmm	8000	Mtr					
c	10CX2.5Sqmm	8000	Mtr					
35	LT power cable including terminations and Glands							
a	2CX10Sqmm	1000	Mtr					
b	4CX10Sqmm	1000	Mtr					
c	4CX300Sqmm	100	Mtr					
d	2CX2.5Sqmm	1200	Mtr					
e	4CX95Sqmm	100	Mtr					
f	1CX16Sqmm	50	Mtr					
36	11kV Power cable termination kits along with Glands qty							
a	11KV 3CX400Sqmm I/D cable termination	14	Nos					
b	11KV 1CX1000Sqmm I/D cable termination	42	Nos					
37	Fire detection and alarm system for building	1	Lot					
38	Spacers,Connectors, C- Wedge Connectors and Clamps as per requirement with 10% Spare	1	Lot					
39	Cable trays as per requirement	1	Lot					
40	Cabling between equipments and RTU as per requirement	1	Lot					
41	Fire Extinguisher as per spec	1	Lot					
42	Outdoor LED Lighting including street lighting with poles as per spec	1	Lot					
43	Line current differential relay including all accessories like patch cord, LIU with junction box for remote location as per spec	4	Nos					
44	Video Surveilence system as per spec	1	Set					
45	Cable entry sealing as per requirement	1	lot					
46	Cable Mounting Structure for 11kV Cables from Transformer	2	Set					
47	Fire Suppression System of 11KV Panels	1	lot					
48	IT Requirements as per spec/BOQ	1	Lot					
49	Spares ( as per specs)	1	Lot					
50	Maintenance tools & Tackles as per specs)	1	Lot					

## SECTION VII

### PRICE FORMAT – ERECTION, TESTING & COMMISSIONING

<b>66/11kV Bakkarwala AIS with 2 PTR</b>							
<b>S.No.</b>	<b>Item Description</b>	<b>Quantity</b>	<b>UOM</b>	<b>Basic (Rs)</b>	<b>GST (Rs)</b>	<b>Unit Landed (Rs)</b>	<b>Total Landed Cost (Rs)</b>
1	ETC of 66/11KV 31.5 MVA Power Transformer including NIFPS	2	Set				
2	Installation of AL Pipe bus bar	1	Lot				
3	ETC of 66kV 3 pole SF6 Circuit Breaker along with support structure (As per Tender SLD)- Including Power Cable Termination	8	Nos				
4	ETC of 66kV CVT (As per Tender SLD)	12	Nos				
5	ETC of 66kV CT (As per Tender SLD)	24	Nos				
6	ETC of 66kV Bus PT(As per Tender SLD)	6	Nos				
7	ETC of Horizontally Rotating double break motorized isolators with one earth switch	16	Nos				
8	ETC of Horizontally rotating double break motorized isolator with 2 earth switch	2	Nos				
9	ETC of Horizontally rotating double break motorized Tendem isolator without earth switch	7	Nos				
10	ETC of Bay Marshaling Kiosk	8	Nos				
11	Fabrication and Installation of Galvanized lattice type switchyard structure tower and Girder	1	Lot				
12	Installation of String bus with twin zebra ACSR conductor for bus coupler and jumpering	1	Lot				
13	Installation of Double and single suspension tension string hardware assembly for Quard Zebra	1	Lot				
14	Fabrication and Installation of Support Structure for all equipments including Bus Post Insulators	1	Lot				
15	ETC of Station Aux Transformer 11/0.433kV 400kVA	1	Nos				
16	ETC OF 66kV Control Relay Panel						
16a	66kV Control Relay Panel Line Feeder	4	Nos				
16b	66kV Control Relay Panel Transformer Feeder	3	Nos				
16c	66kV Control Relay Panel Bus coupler Feeder	1	Nos				
17	ETC OF 220V Li-Ion Battery bank	1	Lot				
18	ETC OF DCDB with battery charger	1	Nos				
19	ETC OF ACDB	1	Nos				
20	ETC OF 11kV APFC 4 Stage, 7.2 MVAR capacitor bank with motorized isolator	2	Sets				

21	ETC OF 11kV APFC 2 Stage, 3.6 MVAR capacitor bank with motorized isolator	2	Sets				
22	ETC of 66kV single phase gapless metal oxide surge arrestor	21	Nos				
23	ETC of 66kV Bus Post Insulator	1	Lot				
24	ETC of Cable Mounting Structure	4	Set				
25	ETC of LA Mounting Structure	21	Nos				
26	ETC OF SCADA RTU	1	Set				
27	ETC OF 11kV VCB switchgear with numerical protective relays(as per SLD)						
a	11kV VCB switchgear with numerical protective relays(as per Tender SLD)- Incoming	4	Set				
b	11kV VCB switchgear with numerical protective relays(as per Tender SLD)- Buscoupler	2	Set				
c	11kV VCB switchgear with numerical protective relays(as per Tender SLD)- outgoing	30	Set				
d	11kV VCB switchgear with numerical protective relays(as per Tender SLD)- Capacitor (7.2 MVAR)	2	Set				
e	11kV VCB switchgear with numerical protective relays(as per Tender SLD)- Capacitor (3.6 MVAR)	2	Set				
f	11kV VCB switchgear with numerical protective relays(as per Tender SLD)- Station Transformer	1	Set				
g	11kV VCB switchgear Bus PT with riser with numerical protective relays(as per SLD)	2	Set				
h	11kV VCB switchgear Bus PT Panel with numerical protective relays(as per SLD)	2	Set				
i	ETC of Earthing trucks for 11kV Panels- Bus Earthing Truck	2	Set				
j	ETC of Earthing trucks for 11kV Panels- Cable Earthing Truck	2	Set				
28	ETC of Grounding and earthing of entire substation including earthing of transformer fence and capacitor bank fence	1	Set				
29	ETC of high mast lighting 16M	4	Nos				
30	Installation of Indoor LED lighting system including emergency lighting	1	Lot				
31	Installation of Air conditioning for complete substation building except Toilet and Pantry	1	Lot				
32	Installation of Exhaust and Ventillation for Toilet and Pantry						
33	Installaiton of Building and outdoor lightning protection system	1	Lot				
34	Laying, testing & termination of Control cables along with lugs & glands						
A	6CX4Sqmm	2000	Mtr				

B	6CX2.5Sqmm	8000	Mtr				
C	10CX2.5Sqmm	8000	Mtr				
35	Laying, testing & termination of LT Power cables along with lugs & glands						
A	2CX10Sqmm	1000	Mtr				
B	4CX10Sqmm	1000	Mtr				
C	4CX300Sqmm	100	Mtr				
D	2CX2.5Sqmm	1200	Mtr				
E	4CX95Sqmm	100	Mtr				
F	1CX16Sqmm	50	Mtr				
36	ITC of 11kV Power cable termination kits along with Glands						
A	11KV 3CX400Sqmm I/D cable termination	14	Nos				
B	11KV 1CX1000Sqmm I/D cable termination	42	Nos				
37	ETC OF Fire detection and alarm system for building	1	Lot				
38	Installation of Spacers, Connectors, C-wedge Connectors and Clamps with 10 % spare as per spec	1	Lot				
39	Installation of Cable trays as per spec	1	Lot				
40	Laying, testing & termination of all Cabling between equipments and RTU including glanding	1	Lot				
41	Installation of Fire Extinguisher as per spec	1	lot				
42	Laying, testing , termination of Outdoor LED Lighting including street lighting with poles as per spec	1	Lot				
43	ETC OF Line current differential relay and accessories for remote location	4	Nos				
44	I/T/C of Video Surveillance system as per spec	1	Set				
45	Installation of Cable entry sealing as per reqmt	1	lot				
46	Installation of Cable Mounting Structure for 11 kV Cables from Transformer including civil work	2	Set				
47	Installation of Fire Suppression System of 11KV Panels	1	lot				
48	ETC OF IT Requirements as per BOQ	1	Lot				
49	Inspection and Training of BRPL Executives ( As per Specs)	1	Lot				

**BOQ shall be read in conjunction with the Tender Document & General Design Criteria**