

Switchyard BOQ of 220/66kV Makansar SS				
Sr. No.	Particulars of Item	Unit	Erection Qty.	Supply Qty.
A	Supply and Erection of 220kV Equipments considering 31mm/kV creepage distance (as per respective technical specifications and relevant special conditions) suitable for One Main Bus and One Main cum Transfer Bus scheme with Twin AL59(61/3.50) conductor			
1	Surge Arrester 198kV, 10kA, Designation-SM with structure and clamp connectors(suitable to Single AL-59) as per Technical spec	No.	18	18
2	PT 220kV/ $\sqrt{3}$ -/110V/ $\sqrt{3}$ -3C with structure and clamp connectors(suitable to Single AL-59) as per Technical spec	No.	6	6
3	BPI 8kN with structure and clamp connectors (suitable to Twin AL-59) as per Technical spec	No.	123	123
4	HBPI 8kN with structure and clamp connectors (suitable to Twin AL-59) as per Technical spec	No.	33	33
5	HDB Isolator with one ES 1600A 40kA 3s with structure and clamp connectors (suitable to Twin AL-59) as per Technical spec	Set.	4	4
6	HDB Isolator with one ES 1600A 40kA 3s with structure and clamp connectors (suitable to Twin AL-59 at one side and Single AL-59 at other side) as per Technical spec	Set.	2	2
7	HDB Isolator without ES 1600A 40kA 3s with structure and clamp connectors (suitable to Twin AL-59) as per Technical spec	Set.	16	16
8	Tandem DB Isolator 1600A 40kA 3s with structure and clamp connectors (suitable to Twin AL-59) as per Technical spec	Set.	6	6
9	CT conventional 1500-1200-600/1, 5C with structure and clamp connectors (suitable to Twin AL-59) as per Technical spec	No.	21	21
10	CB 2000A 40kA 3s with structure and clamp connectors (suitable to Twin AL-59) as per Technical spec	Set.	7	7
B	Supply and Erection of 220kV Materials considering 31mm/kV creepage distance (as per respective technical specifications and relevant special conditions) suitable for One Main Bus and One Main cum Transfer Bus scheme with Twin AL59(61/3.50) conductor			
1	Gantry structures GI as per BOM, Steel (W/o A/B part)	MT	192.8	181.1
2	Gantry structures GI as per BOM, Bolt nut part	MT		11.7
3	VHF Tower Mast Structure GI with stub, template complete as per BOM, Steel and A/B part	MT	1.75	1.65
4	VHF Tower Mast structures GI with stub, template complete as per BOM, Bolt nut part	MT		0.1
5	Stringing of bus with Twin AL59(61/3.50) conductor for all the three phases with required Silicon Rubber Insulators, hardwares and accessories, spacers provided at every 3.0 mtr. interval etc. complete as per relevant standards and approved drawings with Jumpers for continuous Bus Arrangement (It includes cost of Conductor, Silicon Rubber Insulators, hardwares and accessories, spacers etc.all items required for satisfactory functioning. Any variation in quantities shall be absorbed by contractor.)			
a	Main Bus with 32 Mtr span including bus jumpers	No. of Span	8	8
b	Line flyover bus with 49.5 Mtr span	No. of Bay	4	4
c	Transformer flyover bus with 49.5 Mtr span	No. of Bay	2	2
d	Bus Coupler Flyover Bus with 49.5 Mtr. Span	No. of Bay	1	1
6	Droppers (including required suspension string with hardware and accessories if any) and Jumpers (including Equipment to Equipment) with Twin AL59(61/3.50) conductor as per standards and approved drawings with provision of required spacers (Suitable for 350mm spacing) at every 3.0 mtr. interval. (It includes cost of Conductor,Silicon Rubber Insulators, hardwares and accessories, Fire Wedge connectors, spacers etc.all items required for satisfactory functioning. Any variation in quantities shall be absorbed by contractor)			
a	220KV Line Bay	No. of bay	4	4
b	220/66KV Transformer Bay	No. of bay	2	2
c	220KV Bus Coupler Bay	No. of bay	1	1
7	Droppers (including required suspension string with hardware and accessories if any) and Jumpers with Single AL59(61/3.50) conductor as per standards and approved drawings (It includes cost of Conductor,Silicon Rubber Insulators, hardwares and accessories, Fire Wedge Connectors, etc.all items required for satisfactory functioning. Any variation in quantities shall be absorbed by contractor)			
a	220KV Line Bay - LA and CVT	No. of bay	4	4
b	220KV PT Bay	No. of bay	2	2
8	Stringing of Earth Wire with 7/3.15 GS wire with required hardwares and accessories etc. complete as per standards and approved drawings for the shown span.(It includes cost of Earthwire,hardwares and accessories, etc. all items required for satisfactory functioning. Any variation in quantities shall be absorbed by contractor)			
a	49.5 Mtr. Of Span	No. of span	5	5
b	32 Mtr. Of Span	No. of span	8	8

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Sr. No.	Particulars of Item	Unit	Erection Qty.	Supply Qty.
C	Supply and Erection of 66kV Equipments considering 31mm/kV creepage distance (as per respective technical specifications and relevant special conditions) suitable for Two Main Bus scheme with Twin AL59(61/3.50) conductor.			
1-a	Surge Arrester 60kV, 10kA, Designation-SM with structure and clamp connectors (suitable for Single AL59(61/3.50)) as per technical specifications (With cable support arrangement)	No.	24	24
1-b	Surge Arrester 60kV, 10kA, Designation-SM with structure and clamp connectors (suitable for Single AL59(61/3.50)) as per technical specifications	No.	9	9
2	PT 66kV/v3-/110V/v3-2C with structure and clamp connectors (suitable for Single AL-59) as per technical specifications	No.	6	6
3	BPI 4kN with structure and clamp connectors(suitable for Twin AL-59) as per technical specifications	No.	12	12
4	BPI 4kN with structure and clamp connectors (suitable for Single AL-59) as per technical specifications	No.	54	54
5	HBPI 4kN with structure and clamp connectors (suitable for Twin AL59) as per technical specifications	No.	6	6
6	HDB Isolator without ES 2000A 25kA 3s with structure and clamp connectors (suitable for Twin AL-59) as per technical specifications	Set.	6	6
7	HDB Isolator with one ES 1250A 25kA 3s with structure and clamp connectors(suitable for Single AL-59) as per technical specifications	Set.	9	9
8	HDB Isolator without ES 1250A 25kA 3s with structure and clamp connectors (suitable for Single AL-59) as per technical specifications	Set.	18	18
9	HDB Isolator without ES 1250A 25kA 3s with structure and clamp connectors (suitable for Twin AL59 at one side and Single AL59 at other side) as per technical specifications	Set.	2	2
10	CT 1600-1200-600/1 3C 31.5KA 3S with structure and clamp connectors (suitable for Twin AL-59) as per technical specifications	No.	9	9
11	CT 1600-1200-600/1 3C, 31.5KA 3S with structure and clamp connectors (suitable for Single AL-59) as per technical specifications	No.	24	24
12	CT 100-50/1 3C 31.5KA 3S with structure and clamp connectors (suitable for Single AL-59) as per technical specifications	No.	3	3
13	CB 1600A 25kA 3S with structure and clamp connectors (suitable for Twin AL-59) as per technical specifications	Set.	3	3
14	CB 1600A 25kA 3S with structure and clamp connectors(suitable for Single AL-59) as per technical specifications	Set.	9	9
D	Supply and Erection of 66kV Switchyard Materials considering 31mm/kV creepage distance (as per respective technical specifications and relevant special conditions) suitable for Two Main Bus scheme with Twin AL59(61/3.50) conductor.			
1	Gantry structures GI as per BOM , Steel (W/o A/B part)	MT	74.72	69.39
2	Gantry structures GI as per BOM , Bolt nut part	MT		5.33
3	Stringing of bus for all the three phases with Twin AL59 (61/3.50) conductor , Silicon Rubber Insulators hardwares, spacers(suitable for 350mm spacing) at interval of 4.0 mtr complete as per relevant standards and approved drawings.(The scope includes the cost of Conductor,Silicon Rubber Insulators, hardwares, accessories, spacers etc.all items required for satisfactory operation. Any variation in quantities shall be absorbed by erection contractor.			
a	Main Bus with 30.9 Mtr. Span including bus jumpers	No. of Span	2	2
b	Main Bus with 33.4 Mtr. Span including bus jumpers	No. of Span	2	2
b	Main Bus with 32.0 Mtr. Span including bus jumpers	No. of Span	2	2
c	Transformer flyover bus with 29.7 Mtr. Span	No. of Span	2	2
d	Transformer flyover bus with 22.8 Mtr. Span	No. of Span	2	2
4	Stringing of bus for all the three phases with Single AL59 (61/3.50) conductor , Silicon Rubber Insulators hardwares as per relevant standards and approved drawings.(The scope includes the cost of Conductor,Silicon Rubber Insulators, hardwares, accessories, spacers etc.all items required for satisfactory operation. Any variation in quantities shall be absorbed by erection contractor.			
a	Line flyover bus with 22.8 Mtr. Span	No. of bay	9	9
b	66/11kV Transformer flyover bus with 22.6 Mtr. Span	No. of bay	1	1
5	Droppers (including required suspension string with hardware and accessories if any) and Jumpering (equipment to equipment) with Twin AL59 (61/3.50) conductor as per standards and approved drawings with provision of spacers suitable for 350mm spacing at 4.0 mtr interval. The scope includes the cost of accessories ,spacers, fire wedge connectors etc.all items required for satisfactory operation. Any variation in quantities shall be absorbed by erection contractor -Qty. per bay of 3phase			
a	220/66KV Transformer Bay (66KV side)	No. of bay	2	2
b	66KV Bus Coupler Bay	No. of bay	1	1

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6	Droppers (including required suspension string with hardware and accessories if any) and Jumpers with Single AL59(61/3.50) conductor as per standards and approved drawings. (It includes cost of Conductor, Silicon Rubber Insulators, Fire wedge connectors, hardware and accessories etc. all items required for satisfactory functioning. Any variation in quantities shall be absorbed by erection contractor)			
a	66kV Line Bay	No. of bay	8	8
b	66kV PT Bay	No. of bay	2	2
c	220/66KV Transformer Bay - LA	No. of bay	2	2
d	66/11KV Transformer Bay	No. of bay	1	1
7	Stringing of Earth Wire with 7/3.15 GS wire with required hardware and accessories etc. complete as per standards and approved drawings for the shown span. (It includes cost of Earthwire, hardware and accessories etc. all items for satisfactory functioning. Any variation in quantities should be absorbed by erection contractor.			
a	Transformer flyover bus with 29.7 Mtr. Span	No. of span	4	4
b	Transformer flyover bus with 22.8 Mtr. Span	No. of span	2	2
c	Line flyover bus with 22.8 Mtr. Span	No. of span	5	5
d	66/11KV Trf. flyover bus with 22.6 Mtr. Span	No. of span	2	2
e	Other Requirements with			
	29.2 Mtr.Span	No. of span	2	2
	33.4 Mtr.Span	No. of span	2	2
	32.0 Mtr. Span	No. of span	2	2
E	Supply, Erection, Testing and commissioning of 66/11.55kV, 5 MVA Transformer			
1	66/11.55kV, 5 MVA Power Transformer with mineral oil, Conventional OIP Porcelain bushings, NIFPS and accessories as per Technical specification. Terminal connector shall be suitable for Single AL59(61/3.50) Cond.	No.	1	1
F	Supply and Erection of General purpose equipments and materials as per respective technical specifications and relevant special conditions.			
1	11kV/415V, 500 kVA Distribution Transformer as per Technical specification.	No	2	2
2	Suitable arrangement of 11KV connection (A) from 5 MVA station TR to one no. of 11kV/415V, 500 kVA distribution transformer which comprises of equipments with support structures and clamp connectors as per technical specifications:: 1) 22 kV outdoor CT having ratio 300-150/1-1-0.577A, STC: 25 kA – 3 sec, BIL 55/150 kVp. - 3 Nos. 2) 22 kV outdoor VCB, 1250A, STC: 25 kA – 3 sec, BIL 55/150 kVp.- 1 No. 3) 22 kV outdoor Isolator, 630A, STC: 25 kA – 3 sec. - 2 Set 4) 9 KV LA - 3 Nos. 5) 11KV outdoor PT having ratio 11kv/√3- 110v/√3- 2 core - 3 Nos. 6) Conductor: Single DOG Conductor 7) 11 KV cable support arrangement 8) DP structure with DO fuse, 22kV BPIs arrangement including Dist box suitable to dist transformer and (B) from separate 11 kV express feeder (feeder termination shall be arranged by GETCO) to another 11kV/415V, 500 kVA distribution transformer which comprises of equipments with support structures and clamp connectors as per technical specifications:: 1) 22 kV outdoor Isolator, 630A, STC: 25 kA – 3 sec. - 1 set 2) 9 KV LA - 3 Nos. 3) Conductor : Single DOG Conductor 4) 11 KV cable support arrangement 5) DP structure with DO fuse, 22kV BPIs arrangement including Dist box suitable to dist transformer. (11kV Power Cable shall be supplied by GETCO, however Laying of cable is in the scope of bidder)	Package	LS	LS
3	415V AC LT Distribution Box - 800A incomer with Change over switch arrangement and 02 Nos. of 800A Outgoing Feeders as per Ref .Drg No. GETCO/E/02S- STD/P-031/LTD R0 Dtd. 11.03.15.	No	2	2
3	3 Ton Capacity Split AC (reputed make)	No.	3	3
4	AC unit 1.5 Ton Split (reputed make)	No.	4	4
5	Providing major spares as per Ann A attached herewith	Set	0	1
6	Providing instruments as per Ann B attached herewith	Set	0	1
7	Providing tools and tackles etc. as per Ann C attached herewith	Set	0	1
8	Supply of Furniture, RO Water Filter System, Water Cooler Etc. as per Ann. D	Set	0	1
9	Supply and Erection of Fire stand with 4 buckets including concreting as per our drawing and Instruction of E. I. C.	Set	2	2
10	Providing of Insulating Mat as per IS 15652:2006(Size2000x1000x2mm)	No.	0	72
11	Supply and installation of ISI marked fire extinguishers of various types required for 220 KV sub station.			
	1) Dry chemical powder type of 9 Kg. capacity.	No.	0	2
	2) Dry chemical powder type of 25 Kg. capacity.	No.	0	2
	3) Dry chemical powder type of 50 Kg. capacity.	No.	0	2
	4) Carbon dioxide (CO2) gas type of capacity 6.5 Kg. capacity	No.	0	2
	5) Carbon dioxide (CO2) gas type of capacity 22.5 Kg. capacity	No.	0	2
	6) Mechanical Foam type of capacity 9 LT.	No.	0	2

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	7) Mechanical Foam type of capacity 60 LT.	No.	0	2
G	Supply and installation of materials for Illumination system in all respect as per respective specifications and special conditions (Important Note: Concealed wiring shall be considered for Indoor Illumination)			
1	Providing and Fixing of Energy Efficient LED type (Technical spec CI No. 2.10.4.8-I LED 3 type) Indoor decorative luminaries as per design calculation, with respect to required lux level and relevant tender drgs.as per technical spec. Scope also includes providing and fixing of 15/5 A plug, Portable Emergency Light, Bell, Fan, Ex- Fan, DC Point,Occupancy and Light Level Sensor with requisite MCBs and DC 100W lamp , DC Plug etc all items as per Ann-4 in following rooms (with safety device ELCB)			
i	Control Room	Package	LS	LS
ii	PLCC Room	Package	LS	LS
iii	Office	Package	LS	LS
iv	Meeting Room	Package	LS	LS
2	Providing and Fixing of Energy Efficient LED Type (Technical spec CI No. 2.10.4.8-I LED 1 or I LED 2 type) Indoor decorative luminaries as per design calculation, with respect to required lux level and relevant tender drgs.as per technical spec. Scope also includes providing and fixing of 15/5 A plug, Portable Emergency Light, Bell, Fan, Ex- Fan, DC Point, Occupancy and Light Level Sensor with requisite MCBs and DC 100W lamp , DC Plug etc all items as per Ann-4 in following rooms (with safety device ELCB)			
i	Battery Room	Package	LS	LS
ii	LV Room	Package	LS	LS
iii	Store Room	Package	LS	LS
iv	Ramp Slope	Package	LS	LS
v	Veranda	Package	LS	LS
vi	Toilet Gents	Package	LS	LS
vii	WC	Package	LS	LS
viii	Toilet Ladies	Package	LS	LS
ix	Passage (Corridor)	Package	LS	LS
x	Water Room	Package	LS	LS
xi	Security Cabin	Package	LS	LS
3	Providing & Fixing of Energy Efficient LED Type (Technical spec CI No. 2.10.4.8-I LED 1 or I LED 2 type) Indoor decorative luminaries as per design calculation, with respect to required lux level & relevant tender drgs.as per technical spec. Scope also includes providing and fixing of 15/5 A plug, Portable Emergency Light, Bell, Fan, Ex- Fan, DC Point, Occupancy & Light Level Sensor with requisite MCBs and DC 100W lamp , DC Plug etc all items as per Ann-4 in following room.			
i	Store building	Package	LS	LS
	Outdoor Lighting			
3	Providing and fixing of flood light luminaries as per design for (220 and 66kV) switch yard area with Philips/CGL/Bajaj/GE/Oshram or equivalent reputed make LED with control gear box and ancillaries suitable for mounting on structure at appropriate height (as per design) as per specifications TS illuminations cl. no 2.10.4.8 with necessary GI fabrication and GI bolt nuts to fix control gear box at the structure with complete internal and external wiring to J. box ,Dist panel/section feeder pillar etc with supply of required 3 c x 2.5 mm2 copper armoured cable (as per spec) .The scope includes supply and erection of all the materials required for satisfactory functioning of above work.	Package	LS	LS
4	Providing and installation of Energy efficient LED type post top lantern for main gate and road from main gate to switchyard via control room as per design with Philips/CGL/Bajaj/GE/Oshram or Equivalent reputed make and ancillaries suitable for mounting on Gate pillars and 4.5 mtr poles with necessary GI fabrication and GI bolt nuts to fix control gear box with complete internal and external wiring to J.box,Dist panel/section feeder pillar, fixing terminal etc. with supply of required 3 c x 2.5 mm2 copper armoured cable as per spec .This also includes the supply and erection of required 4.5 mtr poles and its foundation work as per spec and earthing with main mesh. The scope includes supply and erection of all the materials required for satisfactory functioning of above work.	Package	LS	LS
5	Providing and fixing of street light luminaries for reamaining area (like road, near whole compound wall/fencing area etc.) of switch yard complete as per design with Philips/CGL/Bajaj/GE/Oshram or Equivalent reputed make LED lamp and ancillaries suitable for mounting on 7.0 mtr swaged poles as per spec.TS illuminations cl. no 2.10.4.8 (S-LED) at appropriate height with necessary GI fabrication and GI bolt nuts to fix control gear box with complete internal and external wiring to J. box ,dist panel/section feeder pillar, fixing terminal etc with supply of required 3 c x 2.5 mm2 copper armoured cable (as per spec). This also includes the supply and erection of 7.0 mtr swaged pole and foundation work as per spec. and panting with two coats of primer and two priming of zinc chromate as well as earthing with main mesh. The scope includes supply and erection of all the materials required for satisfactory functioning of above work.	Package	LS	LS

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6	Supply and Erection of main lighting Panel ACP-1 as per Specifications. Set comprises minimum 3 nos.of such panels qty may be more if required as per design.Scope also includes the providing and erection of cable size (as per design requirement) and 25x6 GI strip for earthing with main mesh	Set	1	1
7	Supply and Erection of main lighting Panel ACP-2 as per Specifications Set comprises minimum 2 nos.of such panels qty may be more if required as per design.Scope also includes the providing and erection of cable size (as per design requirement) and 25x6 GI strip for earthing with main mesh	Set	1	1
8	Supply and Erection of main lighting Panel ACP-3 as per Specifications Set comprises minimum 2 nos.of such panels qty may be more if required as per design.Scope also includes the providing and erection of cable size (as per design requirement) and 25x6 GI strip for earthing with main mesh	Set	1	1
9	Supply and Erection of main lighting Panel ACP-4 as per Specifications Set comprises minimum 2 nos.of such panels qty may be more if required as per design.Scope also includes the providing and erection of cable size (as per design requirement) and 25x6 GI strip for earthing with main mesh	Set	1	1
10	Supply and Erection of main Yard light Dist. Board as per designed capacity ratings.Scope also includes the providing and erection of cable size (as per design requirement) and 50x6 GI strip for earthing with main mesh	Nos	2	2
11	Supply and Erection of Lighting Transformers as per designed capacity.Scope also includes the providing and erection of cable size (as per design requirement) and 50x6 GI strip for earthing with main mesh. Please refer the drawing "General Schematic for Illumination" in the TS Illumination.	Set	1	1
12	Providing of concreting in 1:2:4 mix including muffing for erection of pole and Dist boxes panels including excavation of HR/SR as per approved drawing.	Package	LS	LS
13	Providing and fixing of ' B ' Class ISI marked GI pipe of 25 mm inner diameter for cable looping, road crossing with necessary elbow / band to J. Box etc.	Package	LS	LS
14	Providing and fixing of GI clamp (25mm wide GI strip with 6 mm GI nut bolts) on structure at approx. 1/2 Mtr. Interval for clamping of cable . Clamp should be fix in such a way that cable can be easily mount inside it and sustain standing on structure. This also includes required other materials ,accessories required for complete functioning of Illumination system of whole project (switch yard and all buildings, structures) those are not covered in this schedule for Illumination. Please refer the drawing "General Schematic for Illumination" in the TS Illumination.	Package	LS	LS
	Note: The quantities of the ACP's mentioned in the schedule of requirement are based on std. requirement, which shall be finalised during detail engineering. The bidder has to assess the qty. of ACP's at the time of quoting the bid. The qty of ACP's finalised during detail engineering is binding to the bidder and no any extra payment shall be made. In all the case the decision of GETCO will be final.			
H	Supply and installation of materials for Earthing system in all respect as per respective specifications and special conditions (Successful bidder has to submit fresh soil resistivity report, complete design calculation and BOQ for approval)			
1	Supply and Installation of earthing strips/round bars as shown below including digging of 600 mm depth and 450 mm wide trench fixing on structure as per std equipment earthing philosophy including fixing arrangement with two bolt arrangement, jointing, welding etc. complete.			
	a) 75 x 10 mm GI strip.	RMt.	5100	5100
	b) 50 x 6 mm GI strip.	RMt.	7900	7900
	c) 40 mm dia steel rod	RMt.	13000	13000
	d) 40mm dia 3mtr long steel rod	Nos.	176	176
	e) 7/3.15 earth wire for earthing of towers with peak	RMtr.	1000	1000
2	Providing and installing Check pit as per drawing and instruction of Engineer In charge with provision of earth chamber.	Nos.	4	4
3	Supply, Installation, Testing and Commissioning of maintenance free treated earth electrodes, as per attached drawing no. GETCO/E/STD/P-021 (1 OF 2) R3 dated 29.05.20 and Technical specifications GETCO/E/TS-Maintenance free earth pits /R1 dated 04-06-15.	Nos.	96	96
4	Providing BB masonry inspection chamber (man hole) incl.light type CI cover as per GETCO drawing.	Nos.	96	96
5	Earthing Adequacy study for whole switchyard after commissioning earthmat in all respect (Scope as per annexure-E)	Job	LS	-
6	Thermo scanning of whole switch yard in live condition after one month of commissioning of substation. All hot points found during above test, must be attended by Erection contractor. Upon attending the same, he shall have to submit soft and hard copies of thermoscanning report to substation in-charge for record purpose.	Job	LS	-
7	Design of earthgrid for whole switchyard using computer algorithms for modeling grounding systems as per Cl. 16.8 of IEEE-80.	Package	LS	LS
8	Supply,Installation and Commissioning of Solar roof top System on Control Room and other Buildings with generation capacity of 45KW as per Technical specifications.	Package	LS	LS

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	Note: Extra earth should be removed away from the site s/s premises or refilling earthing pits if required. All required materials for this job such as Copper Bonded Earthing Steel Rods, CI cover with frame, cement, sand, Ground Enhancement Material, gravel, bricks etc. to be supplied by the contractor.			
I	Visual Monitoring System (VMS) as per technical specification. (Along with local PC monitoring set up and remote end PC monitoring set up shall be in the scope of supply)	Lump sum	LS	LS
	NOTES:			
1	Following special conditions are applicable for items included in annexure - B.			
	1) 'PROPERTY OF GETCO' must be embossed on each kit.			
	2) Guarantee/Warranty of all kits shall be 3 years after successful commissioning at GETCO substation.			
	3) Supply & Erection of 220/66KV Transformers are not in the scope of awardee, but awardee will erect the itmes other than the scope of transformer manufacturer and witness during the erection and testing of the same and provide all the result in as built drawings/documents.			
	4) If terrace area of control building is not sufficient for installation of specified capacity of Solar roof top system, then remaining capacity of Solar roof top system shall be installed on other buildings.			