

# **ANNEXURE-I**

## **BOQ for Erection Testing & Commissioning (ETC) Works**

**Rev 00**

**Project : 66kV GIS at Hazira**

**Customer / Consultant : ONGC / Fichtner**

S.No.	Description	Unit	Qty	Unit Rate	Amount(Rs.)
<b>1</b>	<b>GIS ( 66kV- 40kA for 3 sec) -GIS indoor with 2 main bus scheme (11 Bays and one bus PT bay comprised of following as per SLD &amp; layout)</b>				
	Work shall include unloading, verification, upkeeping, storage, shifting, Erection / Installation, Testing and commissioning of 66kV GIS including <u>LCC</u> . The supervision shall be provided by manufacturer of GIS. Arrangement of Tools & testing instruments (other than the list as per Annexure-L), Shall be part of scope. <b>REFER NOTE 22 FOR DETAILS</b> . The scope includes earthing / grounding work for GIS, cabling work between GIS & LCC including termination, ferruling , laying, dressing, tagging etc including arrangement of consumables and HV cable termination & associated work.				
1.1	Generator Transformer (GTG-3) Bay including LCC	Set	1	66150	66,150
1.2	Generator Transformer (GTG-4) Bay including LCC	Set	1	66150	66,150
1.3	GEB Incomer Bay including LCC	Set	2	66150	1,32,300
1.4	Station Auxiliary Transformer (SAT) Bay including LCC	Set	2	58800	1,17,600
1.5	Generator Transformer (STG-1) Bay including LCC	Set	1	66150	66,150
1.6	Existing Grid Transformer(GT) Bay including LCC	Set	2	66150	1,32,300
1.7	Bus Coupler Bay including LCC	Set	1	58800	58,800
1.8	Bus PT bay comprising of 2 nos PT and associated isolator and earthswitch including LCC	Set	1	35280	35,280
1.9	Spare Transformer Bay including LCC	Set	1	58800	58,800
1.10	SF6 Gas Filling/Recovery/Re-filling Cycle. The cycle of the gas filling/recovery/re-filling will be followed multiple time till the Completion of the HV test. Gas processing and filling unit ( DILO machine) shall be in the scope of BHEL/manufaturer.	Lot	1	121275	1,21,275
1.11	Structure work for Installation of GIS including support structure, fixing of foundation bolts/ base frame, aligning, jointing, welding , fixing of embedded parts / support plates in floors etc., which are required for installation of GIS as per the specification.	bays	11	11025	1,21,275
1.12	Grounding for GIS using braided Cu wire (insulated/ non-insulated)/ earthstrip (Cu/Al/GI flat). Work includes cutting, lug crimping , bolting , fixing etc. and connecting with riser/earth strip (GI/AL /Cu flat). Grounding Material will be supplied by GIS Supplier /BHEL, however, contractor has to arrange for hardware and lug for grounding. Document for GIS Earthing enclosed for reference.	bays	11	10500	1,15,500
1.13	Termination of 66 kV XLPE , 1C,500sqmm Al. cable for Incomer bays at 66 KV GIS end. The supply of termination kit and supervision of the same will be in GIS/66 kV Cable supplier scope scope. (1 set is for 3 phase)	Set	9	15750	1,41,750
					-
<b>2</b>	<b>Dismantling</b> (as per 66kV s/s layout plan & section). Work shall include dismantling, packing and shifting to customer store & handing over.				-
2.1	66kV Circuit breaker - 3 phase - (Equipment without structure, clamps and earthing )	nos.	4	13138.125	52,553
2.2	66kV isolator - 3 phase - (Equipment without structure, clamps and earthing )	nos.	7	7917	55,419
2.3	66kV Current transformer -1 phase - (Equipment without structure, clamps and earthing )	nos.	6	4914	29,484
2.4	66kV Post insulators -1 phase -(Equipment alongwith structure, clamps and earthing )	nos.	6	682.5	4,095
2.5	66kV Bus PT -1 phase (Equipment without structure, clamps and earthing)	nos.	6	3617.25	21,704

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S.No.	Description	Unit	Qty	Unit Rate	Amount(Rs.)
2.7	Conductor, Tube, Clamps, Disc Insulator & String Hardware etc - Details as per Layout	Lot	1	35962.5	35,963
2.8	Dismantling of cables in cable trench				-
a	Control cables	m	500	10.5	5,250
b	Power cables	m	200	15.75	3,150
2.8	Dismantling of equipment/tower structures	MT	6	2235.87	13,415
2.8					-
<b>3</b>	<b>Equipment</b>				-
3.1	66kV Outdoor Metering CT, complete with terminal connectors without support structure	nos.	6	9828	58,968
3.2	66kV Outdoor Metering PT, complete with terminal connectors without support structure	nos.	6	7234.5	43,407
3.3	66kV Bus Post insulators, complete with terminal connectors without support structure	nos.	6	1365	8,190
3.4	60 kV Surge Arrester complete with surge counter, terminal connector without support structure.	nos.	6	3480.75	20,885
3.5	GI Stranded Shield wire including tension clamp, PG clamp and clamping on structure for down conductor, fixing/bolting with earth strip etc to complete.	m	50	34.125	1,706
3.6	ACSR/AAAC Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for busbar jumpering, bundle spacers etc	m	100	101.01	10,101
3.7	2/3 inch Al Tube (ETC of Al.Tube includes Aluminium welding and bending to be included. Welding sleeve tube will be supplied by BHEL.)	m	30	315	9,450
					-
<b>4</b>	<b>Structure</b>				-
4.1	Galvanised steel Lattice Structures including hardwares for Towers, beams & equipment support	MT	12.8	4471.74	57,238
					-
<b>5</b>	<b>AUXILIARY SUPPLY - (LT DISTRIBUTION BOARDS, BATTERY, CHARGER), SLD for reference</b>				-
5.1	415V ACDB	Set	1	17640	17,640
5.2	110 V DC DB	Set	1	33810	33,810
5.3	415V AC Main Lighting Panel with Lighting Transformer.	Set	1	11760	11,760
5.4	415V AC Emergency Lighting DB with Lighting Transformer	Set	1	8820	8,820
5.5	110V Float Cum Boost Battery Charger	Set	2	22050	44,100
5.6	110 V Battery Bank (500 AH NiCd Battery)	Set	2	73500	1,47,000
					-
<b>6</b>	<b>SAS system</b>				-
	SAS system: 61850 Based Sub station Automation system (Testing and commissioning of relays are in scope of panel supplier. However necessary manpower support, tools, tackles and testing equipment shall be in scope of ETC contractor)				-
6.1	Control & Relay Panel for GTG-3 Bay	Nos.	1	11760	11,760
6.2	Control & Relay Panel for GTG-4 Bay	Nos.	1	11760	11,760
6.3	Control & Relay Panel for GEB Incomer -1 Bay	Nos.	1	11760	11,760
6.4	Control & Relay Panel for SAT -1 Bay	Nos.	1	11760	11,760
6.5	Control & Relay Panel for Bus-Coupler Bay	Nos.	1	11760	11,760
6.6	Control & Relay Panel for SAT -2 Bay	Nos.	1	11760	11,760
6.7	Control & Relay Panel for STG-1 Bay	Nos.	1	11760	11,760
6.8	Control & Relay Panel for GEB Incomer -2 Bay	Nos.	1	11760	11,760
6.9	Control & Relay Panel for Existing Grid Transformer GT-1 Bay	Nos.	1	11760	11,760
6.10	Control & Relay Panel for Existing Grid Transformer GT-2 Bay	Nos.	1	11760	11,760
6.11	Control & Relay Panel for Spare Transformer Feeder Bay	Nos.	1	11760	11,760
6.12	Numerical Busbar Protection Panel	Nos.	1	11760	11,760
6.13	BCU for Controlling & Monitoring of Auxiliary System for 66kV GIS	Nos.	1	11760	11,760
6.14	Islanding Panel	Nos.	1	11760	11,760
6.15	Energy management System Panel	Nos.	2	11760	23,520
6.16	Load Shedding System Panel	Nos.	1	11760	11,760
6.17	RTU Panels	Nos.	4	11760	47,040
6.18	SAS : HMI Main & Backup Industrial PC	Nos.	2	1050	2,100

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S.No.	Description	Unit	Qty	Unit Rate	Amount(Rs.)
6.19	SAS : Disturbance Recorder PC	Nos.	1	1050	1,050
6.20	SAS : Gateway Industrial PC	Nos.	2	1050	2,100
6.21	SAS : UPS 2KVA	Nos.	1	525	525
6.22	SAS : A3 Colour Printer	Nos.	1	1050	1,050
6.23	SAS : Armoured Fibre Optic Cable to be laid in GI pipe/Trench	m	2000	42	84,000
6.24	SAS : GPS with 25m Cable and Antenna	Set	1	7350	7,350
6.27	Handling & installation of furniture required in GIS control room for Industrial PCs , printer, chairs etc.	Lot	1	15750	15,750
					-
7	<b>LT Cables</b>				-
	Cabling including laying, tagging , dressing, ferruling, Glanding, lugging, ,soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates- laying can be either on trays, supports, underground, buried in ground or through GI pipe over ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Glands shall be quoted separately.  * Cable Sealing by multi cable transit (MCT) or by Fire Protective Sealing (FPS) Material for sealing the cable entries from one room / area to other room / area wherever required shall be in scope. Fire protective Sealing material shall be supplied by contractor. Refer cl. 4.14.0 , Vol-III/Sec-3.18 of ONGC Specification for installation.				-
	<b>Control cables- XLPE insulated , Copper conductor, Armoured, FRLS</b>				-
7.1	10Cx2.5 Cu	m	23000	23.52	5,40,960
7.2	14Cx2.5 Cu	m	4000	26.46	1,05,840
7.3	19Cx2.5 Cu	m	1500	36.75	55,125
7.4	5Cx2.5 Cu	m	18000	11.76	2,11,680
	<b>Auxiliary Power cables, XLPE insulated, Al / Cu conductor armored, FRLS</b>				-
7.5	4C x 6 Cu	m	1000	11.76	11,760
7.6	4C x 16 Cu	m	600	20.58	12,348
7.7	3 ½ C x 35 Al	m	500	36.75	18,375
7.8	2C x 2.5 Cu	m	1000	5.88	5,880
7.9	3 ½ C x 70 Al	m	200	58.8	11,760
					-
8	<b>Cable Glands-</b> Cable glands shall be tinned brass (coating thickness not less than 20 micron) , shrouded, double compression type, complete with necessary armour clamp and tapered washers etc. Cable glands shall match with the different cable sizes. Cable lugs shall be tinned copper lugs suitable for termination of different sizes of /LT/ control cables. Lugs for power cables shall be of compression type, whereas lugs for control cables shall be of insulated terminal crimping type. Cable glands are required for Following Cables:				-
	Glands shall be supplied of Reputed Make which shall be subject to BHEL/ Customer Approval. Quantity may vary by ±50%.				-
	<b>Glands for Control cables- XLPE insulated , Copper conductor, Armoured, FRLS</b>				-
8.1	10Cx2.5	Nos.	500	514.5	2,57,250
8.2	14Cx2.5 Cu	Nos.	70	689.43	48,260
8.3	19Cx2.5 Cu	Nos.	20	689.43	13,789
8.4	5Cx2.5 Cu	Nos.	560	441	2,46,960
	<b>Glands for Auxiliary Power cables, XLPE insulated Al /Cu conductor , Armoured, FRLS</b>				-
8.6	3.5 C x 400 Al	Nos.	20	2100	42,000
8.7	4C x 6 Cu	Nos.	20	294	5,880
8.8	4C x 16 Cu	Nos.	20	698.25	13,965
8.9	3 ½ C x 35 Al	Nos.	20	698.25	13,965
8.10	2C x 2.5 Cu	Nos.	20	294	5,880

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S.No.	Description	Unit	Qty	Unit Rate	Amount(Rs.)
8.11	3 ½ C x 70 Al	Nos.	20	1176	23,520
9	<b>Cable Trench Material (Support Racks &amp; Trays) for HT &amp; LT cable laying</b>				-
9.1	<b>Cable Rack</b> work includes welding of galvanised steel racks on inserts of trench walls in trenches/ceiling/ floor in switchyard and control room. Cable rack assembly will be of 2/3/4 tier.	MT	11	26460	2,91,060
9.2	<b>Laying of Cable trays:</b> including bends, tees, elbow, reducers, stiffeners coupler plates, bolting to racks, covers etc. to complete.				-
9.2.1	150 to 750 mm wide, 2.5 M long Ladder type	no.	350	210	73,500
9.2.1	1250 mm wide, 2.5 M long Ladder type	no.	25	525	13,125
9.2.2	100 to 750 mm wide, 2.5 M long Perforated type	no.	160	420	67,200
9.3	<b>Laying of buried cables</b> as per IS along with <u>supply of</u> trefoil clamps				-
9.3.1	Cables over 40mm OD	m	50	262.5	13,125
9.4	Laying of <b>GI conduits</b> at a depth of 300mm including excavation, backfilling, making and repairing of walls in trenches, cutting, threading, fixing of sockets/ bends where required etc. complete. <u>Both ends of GI conduits shall be closed by plastering.</u> (Payment will be made for the as erected pipe length)				-
9.4.1	GI pipe, 50 NB	m	500	65.1	32,550
9.4.2	GI Pipe, 100 NB	m	30	84	2,520
9.6	Fixing of GI Pipes on Lattice/ Pipe Structure including clamping, fixing of sockets/ bends as required etc. complete. Both ends of GI Pipes shall be closed by plastering. (Payment will be made for the as erected pipe length)				-
9.6.1	50 mm dia	m	500	73.5	36,750
9.6.2	100 mm dia	m	50	84	4,200
10	<b>Earthing material-</b> The earthing includes earthing of all switchyard equipment, towers, pipe structure, cable trenches, fence, pipe electrode for LA, CVT, interconnections of other grids, Control room equipments using necessary earthing flats. Earthing clamping shall be carried out by ETC contractor. GS strip including cutting, bending, welding with 40 mm dia MS rod riser/earth strip, applying zinc rich paint, clamping to structure/building wall etc. to complete. Hardware required for connecting flat on pads of structure & equipment included in scope. The Earthing of equipments, Auxiliary Earthmats under Iso/ ES/ CB MOM boxes shall be carried out				-
10.1	75 x 10mm GI Flat	m	100	176.4	17,640
10.2	50 x 6 mm GI Flat	m	50	176.4	8,820
10.3	40 mm Dia MS Rod	MT	1	30000	30,000
10.4	25x3 mm GI flat	m	50	124.95	6,248
11	<b>Rubber Insulated Mats -</b> Supplying Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652) and laying in front of Panels	SQ. M	170	1155	1,96,350
12	<b>Panel Support -</b> Panel Supporting Angles / Channel etc on cable trench in Control Room & Bay Control Room (Including Supply).	MT	1	117012	1,17,012
13	<b>Structural Steel -</b> Structural Steel Work welded in built up sections like angles, channels & framed work etc including providing cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete (Including supply)	MT	2	117012	2,34,024
14	<b>Mandatory Spares -</b> Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per Annexure-P	lot	1	52500	52,500
					-

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S.No.	Description	Unit	Qty	Unit Rate	Amount(Rs.)
15	<b>AC &amp; VENTILLATION SYSTEM</b> <b>(Unloading, Verification, Storage in scope but NOT Installation)</b>				-
	loading/ unloading/ storage of AC units & ventilation fans				-
15.1	Split AC unit of 2 TR capacity along with copper refrigerant piping	Nos.	9	315	2,835
15.2	8000 CMH Axial flow supply air fan complete with pre-filters, fine filter, gravity louvers and mounting accessories etc. for GIS hall.	Nos.	5	210	1,050
15.3	5000 CMH Axial flow supply air fan complete with pre-filters, fine filter, gravity louvers and mounting accessories etc. for Cable cellar.	Nos.	5	210	1,050
15.4	2000 CMH Axial flow Exhaust air fan with flame proof motor complete intake louvers and mounting accessories etc. for Battery room	Nos.	4	210	840
15.5	2000 CMH Axial flow Exhaust air complete with mounting accessories etc. for toilet rooms	Nos.	3	210	630
					-
16	<b>66KV Cables</b> <b>(Unloading, Verification, Storage in scope but excluding Installation)</b>				-
16.1	66kV XLPE Power cables & accessories shall be Laid by EHV Cable supplier Work shall include unloading , verification and upkeeping. (BOQ as per annexure-E)	Lot	1	80062.5	80,063
					-
18	<b>HTLS CONDUCTOR &amp; ACCESSORIES</b> <b>(Unloading, Verification, Storage in scope but excluding Installation)</b>				-
18.1	HTLS conductor for reconductoring of 66kV double circuit transmission line shall be done by HTLS conductor supplier. Work shall include unloading , verification and upkeeping. (BOQ as per Annexure-I)	Lot	1	139933.5	1,39,934
	<b>Total Amount (Rs.)</b>				<b>53,56,542.94</b>
	<b>Note:</b>				
1	All ETC works shall be done as per ONGC / BHEL Specification (enclosed). Copy of Specification shall be issued at contract stage.				
2	Loading / Unloading, handling, shifting to & from stores, proper storage, assembly, installation, pre-commissioning test and commissioning tests (as per BHEL FQP) are included in the scope. Shifting of the material from store to site with truck/trailor (within plant boundary).The scope of work includes loading of material with hydra on truck/trailor at store, unloading of the material from truck/trailor at site with Hydra (in case EOT crane is available in GIS hall then unloading of the same by EOT crane, it may be noted the EOT crane is in BHEL scope).				
3	HV test kit is in scope of GIS Supplier				
4	Distance between store to erection site is approx. 2 km.				
5	The quantities given above may change to any extent.				
6	Quoted rates are deemed to be inclusive of miscellaneous works.				
7	Quantities of Cables, Glands, Conductors, GI Pipes, Earthing Flats etc are <b>Tentative</b> and may change as per detailed engineering.				
8	Complete ETC package is under the scope of bidder. All TNP, cranes / hydra etc. as required to complete the job shall be provided by bidder only.				
9	MS welding - apply red primer paint then aluminium paint then bitumen after welding. Paint Shade shall be as agreed by customer.				
10	GS welding - apply 2 coats of cold galvanising after welding.				
11	Refer <b>SLD for ACDC Distribution Board</b> for Aux Power supply details.				
12	Minor Civil works such as modification of civil foundations, making holes in the trenches/ control room building, grouting, fixing of trench material will be in the scope of ETC contractor.				
13	Removal of gravel, if gravelling is done, for connection of Equipment earthing strip to the existing mat (wherever earthing mat is already laid), and after completion of earthing , contractor should place the gravel to bring it in original shape.				
14	All paint , welding electrodes & other consumable by contract supplies shall be part of ETC works. Paint /welding electrode make etc. is subject to BHEL/CUSTOMER site incharge approval.				

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S.No.	Description	Unit	Qty	Unit Rate	Amount(Rs.)
15	Equipment erection means complete erection, metallics, post insulator (if applicable), connectors (expansion/rigid tubular for Al.Tube / single/double/quadruple conductor), connection to the next in line (if connected to overhead busbar or droppers) including PG clamps/Tee connectors etc. This will be clear from the enclosed electrical layout drawings.				
16	Equipment and tower erection would include supply and erection of miscellaneous items, viz Phase colour discs, labels painting of equipments, phase colour painting, phase marking, bay identification board, danger plates, rubber mats, device number marking on the equipment, keyboard etc as per site requirements. Supply & Mounting of phase color discs & Danger plates shall be as per IS-2551; 1982 & IS 5; 1978.				
17	Welding of Aluminium tubes (supply of welding sleeve excluded) as per Annexure is in ETC contractor's scope and joints shall be tested by radiography. Welding and Bending machines and any other equipment will be in ETC Contractor scope.				
18	MS welding - apply red primer paint then aluminium paint then bitumen after welding. Paint Shade shall be as agreed by customer.				
19	GS welding - apply 2 coats of cold galvanising after welding.				
20	Earthing of GIS Bays is in the scope of ETC contractor.				
21	Testing instruments (dully calibrated) have to be arranged by ETC Contractor at it's own cost (List is only provided for information, if any other instrument not mentioned below but required for successful completion of ETC work shall be in ETC contractor's scope), (However OMICRON or equivalent kit for Numerical relay testing shall be arranged by BHEL.)				
	DCRM (OPERATIONAL ANALYZER)				
	Contact Resistance Measurement kit (CRM)				
	Capacitance and Tan delta measurement Kit				
	Dew Point Measurement kit				
	5kV/1kV Megger				
	Primary current Injection Kit				
	Secondary current/Voltgae Injection kit				
	1Ph Variac				
	Multimeters				
	Clamp on meter				
	Relay test kit				
22	General Tools and Tackles to be arranged by ETC Contractor on returnable basis. (based on general requirement of requirement for erection, testing and commissioning of GIS under scope): The following is the list of Items which may be extended further depending upon the site timely requirements				
a	14 ton Hydra with lifting tools (Shackle, slings etc) for GIS Bay & accessories shifting from store to GIS room				
b	Hand Pallet Trolley Qty-2 for GIS modules & accessories boxes shifting				
d	Power supply sockets with extension board inside GIS room Qty-2 nos.				
e	Vacuum cleaner machine for GIS room cleaning Qty-2 nos.				
g	Necessary numbers of fire extinguisher				
	<b>Enclosures:</b>				
	SINGLE LINE DIAGRAM OF 66 KV SYSTEM				Annexure A
	SINGLE LINE DIAGRAM OF ELECTRICAL AUX SYSTEM				Annexure B
	LAYOUT PLAN AND SECTION OF 66 KV SYSTEM				Annexure C
	66 KV GIS EARTHING DRAWING				Annexure D
	BOQ for 66kV Cables				Annexure E
	EARTHING DRAWING				Annexure F
	CABLE TRENCH LAYOUT - INDOOR				Annexure G
	HTLS CONDUCTOR - BOQ				Annexure I
	MANDATORY SPARES				Annexure P
	LIST OF TOOLS & TESTING EQUIPMENT TO BE BROUGHT BY OEM				Annexure L
	GIS LAYOUT				Annexure-O

**(ANNEXURE-II)**

**TRANSMISSION BUSINESS GROUP  
(SUB- CONTRACTS MANAGEMENT)  
TBG - NOIDA**

**PRICE SCHEDULE FORMAT**

**SUB: RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 66KV GIS AT HAZIRA IN GUJARAT**

I/ We hereby agree to execute the above work at ----- % (in figure) -----  
Percentage (in words) Above / Below/ at Par the rates of items given in BOQ for erection testing and commissioning work (Annexure-I) of subject tender.

**NOTE:**

1. The percentage quoted shall be clearly written both in words and figures In case of discrepancy in rates in figure and words, the minimum will be taken into account by BHEL.
2. The quoted percentage will apply to the individual items unit rate uniformly.

Date:

Place

Signature of tenderer

Name & Designation of authorized person(s) with seal

### ANNEXURE-III

**SUMMARY OF PRICES FOR RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 66KV GIS AT HAZIRA IN GUJARAT**

<b>Sl No.</b>	<b>Description</b>	<b>Amount (Rs.)</b>
1	Total amount as per the rates in BOQ for subject ETC works (Annexure-I)	53,56,542.94
2	Applicable percentage above/below/ at Par to the total amount in BOQ for subject ETC works (As indicated in Price Schedule Format, Annexure-II).	.....% above/below/ at par
3	<b>Total amount for subject ETC works after consideration of percentage above/below/ at par.</b>	