

BOQ for Erection Testing & Commissioning (ETC) Works (Rev 00)
(Annexure-I)
Project : OHPC: 220kV Switchyard Extn. at 6x60 MW Balimela Power House, Balimela (R & M of Unit-1 to 6 of Balimela Hydro Electric Project)
Customer : Odisha Hydro power Corporation Limited (OHPC)
Location : Balimela

S.No.	Voltage Class (kV)	Type	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
MAIN EQUIPMENTS							
1	220 kV	CB	SF6, 3 Phase Circuit Breaker alongwith lattice type GS supporting structure, terminal connectors, Breaker Control Cabinets, ladder and interpole cabling. (Supervision of Erection, Testing and commissioning will be done by supplier. Supplier will bring Timing kit and Gas leak detector only. Necessary manpower support, tools, tackles and testing kit to be in scope of ETC contractor).	Nos.	1	28595.03	28595.03
2	220 kV	HDB (Normal)	3 Ph, Isolator , motor/ manual operated complete with 9 nos. of support insulators & terminal connectors without support structure				
2.1			- without earth switch (motor/ manual operated)	Nos.	3	17309.77	51929.30
2.2			- with one earth switch (motor/ manual operated)	Nos.	1	17309.77	17309.77
3	220 kV	Upto 1600 A	1 Ph, Current Transformer , live/dead tank complete with terminal connectors without support structure.				
3.1			low level (upto 5.9 m height from plinth).	Nos.	3	5719.47	17158.42
3.2			High level (above 5.9 m to 8 m height from plinth).	Nos.	3	7279.30	21837.89
4	220 kV		1 Ph, PT complete with terminal connector without support structure.	Nos.	3	6292.68	18878.05
5	198 kV		1 Phase, Gapless type Metal Oxide Surge Arrester complete with surge counter, leakage current meter, insulating base, connecting cable and terminal connectors without support structure.	Nos.	3	3452.51	10357.54
6	220 kV	Solidcore with/without corona ring	Post Insulators complete with/without corona ring & terminal connectors without support structure.				
6.1			low level (upto 5.9 m height from plinth).	Nos.	3	743.86	2231.59
6.2			High level (above 5.9 m to 8 m height from plinth).	Nos.	3	946.73	2840.19
7	ILLUMINATION SYSTEM (Supply & ETC is in scope of ETC Contractor)						
		Illumination Sys	Lighting Panels, fixtures, Receptacles and other accessories/materials etc. as required for complete installation and commissioning of Illumination System				
7.1			SUPPLY: Lighting Panel (Outdoor)	Nos.	1	36707.32	36707.32
7.2			ETC: Lighting Panel (Outdoor)	Nos.	1	3146.34	3146.34
7.3			SUPPLY: Lighting fixtures and Receptacles including junction box, lighting wires & flexible conduit (if required) from junction box to lighting fixture, mounting arrangement and other accessories/materials etc. as required for complete installation and commissioning of lighting fixture.				
a			Lighting Fixture Type-SF1	Nos.	5	2444.25	12221.26
b			Lighting Fixture Type-SF2	Nos.	5	7846.87	39234.36
c			63A, 415V: Interlocked switch socket outdoor Receptacle	Nos.	1	8914.63	8914.63
7.4			ETC: Lighting fixtures and Receptacles including junction box, lighting wires & flexible conduit (if required) from junction box to lighting fixture, mounting arrangement and other accessories/materials etc. as required for complete installation and commissioning of lighting fixture.				
a			Lighting Fixture Type-SF1	Nos.	5	1284.73	6423.67
b			Lighting Fixture Type-SF2	Nos.	5	1070.61	5353.06
c			63A, 415V: Interlocked switch socket outdoor Receptacle	Nos.	1	524.39	524.39
7.5			SUPPLY: Erection material including Aluminium Flat, GI Bolt with nut and washer for fixing indoor & outdoor lighting panels, GI Bolt with nut and washer for fixing control gear boxes, GI Bolt with nut and washer for fixing outdoor JB's, GI Bolt with nut and washer for fixing outdoor lighting fixtures, GI Earthwire from JB to lighting fixtures, Mounting brackets for lighting fixtures and all other accessories required for successful completion of project etc.	Lot	1	16299.64	16299.64
7.6			ETC: Erection material including Aluminium Flat, GI Bolt with nut and washer for fixing indoor & outdoor lighting panels, GI Bolt with nut and washer for fixing control gear boxes, GI Bolt with nut and washer for fixing outdoor JB's, GI Bolt with nut and washer for fixing outdoor lighting fixtures, GI Earthwire from JB to lighting fixtures, Mounting brackets for lighting fixtures and all other accessories required for successful completion of project etc.	Lot	1	1500	1500.00
8	BUS BAR MATERIALS						
8.1	Stringing hardware						
8.1.1	220 kV	Single Tension	Tension insulator string with double/single anchoring point, string comprising 1X15 nos. disc with hardware set with all accessories including tension clamp with/ without Turn Buckle set suitable for single/twin conductor.	Set	30	2148.80	64463.96
8.1.2	220 kV	Single Suspension	Suspension insulator string comprising 1X15 nos. disc with hardware set with all accessories including drop/through type suspension clamp suitable for single/twin conductor.	Set	6	2148.80	12892.79
8.2	-	ACSR Moose/ Zebra	Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for busbar jumpering, Single/Twin bundle rigid/flexible spacers etc to complete.	Km	2	54100.47	108200.94
8.3.1	-	7/9 SWG	ETC: 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	500	27.49	13746.84

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Customer : Odisha Hydro power Corporation Limited (OHPC)

Location : Balimela

S.No.	Voltage Class (kV)	Type	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
8.3.2	-	7/9 SWG	SUPPLY: GI Stranded Shield wire (Bidder's Scope is to supply 7/9 SWG Shield Wire (Customer accepted) only. ETC is covered under item no. 8.3.1)	m	500	57.50	28750.00
ENGINEERED ITEMS							
9			Cabling including laying, tagging , dressing, ferruling, lugging, ,soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on (existing/new) trays, supports, underground (buried in ground or through GI/PVC 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. Supply rates of Glands shall be quoted separately under item no. 10. (Removal of Pre-cast trench cover for cable laying & replenishing cover on trench after cable laying in case of existing trench is also in bidder's scope)				
9.1			Control cables				
9.1.1		PVC	5Cx2.5 sqmm Cu	m	1500	12.42	18630.00
9.1.2		PVC	7Cx2.5 sqmm Cu	m	5500	13.30	73150.00
9.1.3		PVC	10Cx2.5 sqmm Cu	m	3500	13.30	46550.00
9.1.4		PVC	14Cx2.5 sqmm Cu	m	3000	17.74	53220.00
9.1.5		PVC	19Cx2.5 sqmm Cu	m	6000	19.51	117060.00
9.1.6		PVC	2Cx2.5 sqmm Cu	m	2000	12.42	24840.00
9.1.7		PVC	5Cx4 sqmm Cu	m	15500	12.42	192510.00
9.2			Auxiliary Power cables				
9.2.1		PVC	2Cx16 sqmm Al	m	300	12.42	3726.00
9.2.2		PVC	4Cx16 sqmm Al	m	500	12.42	6210.00
9.2.3		PVC	3.5Cx70 sqmm Al	m	1200	25.72	30864.00
9.2.4		PVC	3.5Cx185 sqmm Al	m	1000	37.55	37550.27
10			Tin/ Nickel, Nickel/chromium - Plated (coating thickness not less than 10 microns) brass cable glands , double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under item no. 9) Overall Qty may vary by ±50% (Cable glands to be procured from OHPC approved Vendors)				
10.1			Control cables				
10.1.1		PVC	5Cx2.5 sqmm Cu	Nos.	38	177.38	6740.44
10.1.2		PVC	7Cx2.5 sqmm Cu	Nos.	28	212.86	5960.08
10.1.3		PVC	10Cx2.5 sqmm Cu	Nos.	16	239.46	3831.36
10.1.4		PVC	14Cx2.5 sqmm Cu	Nos.	22	266.07	5853.54
10.1.5		PVC	19Cx2.5 sqmm Cu	Nos.	56	288.24	16141.44
10.1.6		PVC	2Cx2.5 sqmm Cu	Nos.	30	177.38	5321.40
10.1.7		PVC	5Cx4 sqmm Cu	Nos.	38	177.38	6740.44
10.2			Auxiliary Power cables				
10.2.1		PVC	2Cx16 sqmm Al	Nos.	20	266.07	5321.40
10.2.2		PVC	4Cx16 sqmm Al	Nos.	20	266.07	5321.40
10.2.3		PVC	3.5Cx70 sqmm Al	Nos.	6	354.75	2128.50
10.2.4		PVC	3.5Cx185 sqmm Al	Nos.	6	399.46	2396.77
11			Marshalling Kiosks & CT/CVT Junction Boxes				
11.1			Bay Marshalling Kiosks (Outdoor, Floor mounted on cable trench)	Nos.	1	3783.07	3783.07
11.2			CT Junction Box (on CT structure)	Nos.	2	2231.05	4462.10
11.3			PT Junction Box (on PT structure)	Nos.	1	2231.05	2231.05
12			Laying of Cable trays: including bends, tees, elbow, reducers, stiffeners coupler plates, bolting to racks, structure etc. to complete.				
12.1			150 to 750 mm wide, 2.5 M long Ladder type	m	500	41.23	20614.04
12.2			100 to 250 mm wide, 2.5 M long Perforated type	m	100	50.92	5092.07
13			Cable Rack work includes welding of galvanised steel racks on inserts of trench walls in trenches in switchyard and control room. Cable rack assembly will be of 2/3/4 tier.	MT	5	12224.91	61124.55
14.1			ETC: Laying of PVC conduits 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 PVC conduits shall be closed by plastering.</u> (Payment will be made for the as erected pipe length)				
a			PVC pipe, 50/ 63 NB	m	100	68.21	6821.27
b			PVC Pipe, 100/ 110NB	m	100	81.50	8150.07
14.2			SUPPLY: PVC Pipe & Accessories (Customer accepted) (Bidder's Scope is to supply PVC Pipe & Accessories only. ETC is covered under item no. 14.1)				
a			PVC pipe, 50/ 63 NB	m	100	40.38	4037.80
b			90 deg bend for PVC Pipe, 50/ 63NB	Nos.	10	46.15	461.46
c			T-Bend for PVC Pipe, 50/ 63NB	Nos.	5	36.71	183.54
d			Socket for PVC Pipe, 50/ 63NB	Nos.	20	46.15	922.93
e			PVC Pipe, 100/ 110NB	m	100	188.78	18878.05
f			90 deg bend for PVC Pipe, 100/ 110NB	Nos.	10	178.29	1782.93

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S.No.	Voltage Class (kV)	Type	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
g			T-Bend for PVC Pipe, 100/ 110NB	Nos.	5	176.20	880.98
h			Socket for PVC Pipe, 100/ 110NB	Nos.	20	75.51	1510.24
15.1			ETC: Laying of GI conduits 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)				
a			GI pipe, 50/ 63 NB	m	500	58.19	29095.00
b			GI Pipe, 100/ 110NB	m	750	69.52	52140.00
15.2			SUPPLY: GI Pipe & Accessories (Customer accepted) (Bidder's Scope is to supply GI Pipe & Accessories only. ETC is covered under item no. 15.1)				
a			GI pipe, 50/ 63 NB	m	500	355.20	177600.52
b			90 deg bend for GI Pipe, 50/ 63NB	Nos.	70	360.99	25269.27
c			T-Bend for GI Pipe, 50/ 63NB	Nos.	5	308.37	1541.84
d			Socket for GI Pipe, 50/ 63NB	Nos.	100	89.77	8977.19
e			GI Pipe, 100/ 110NB	m	750	836.17	627127.19
f			90 deg bend for GI Pipe, 100/ 110NB	Nos.	60	887.21	53232.80
g			T-Bend for GI Pipe, 100/ 110NB	Nos.	5	781.97	3909.84
h			Socket for GI Pipe, 100/ 110NB	Nos.	120	195.39	23446.32
16			Earthing material- The earthing includes earthing of all switchyard equipment, towers, lattice/pipe structure, cable trenches, fence, pipe electrode for LA, CVT, neutral of transformer & at interconnections of other grids, Control room equipments using necessary Connectors for 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 as per TB-4-393-316-010.				
16.1			75 x 12/ 75 x 10 mm GI Flat	m	500	62.97	31484.70
16.2			50 x 10/ 50 x 6 mm GI Flat	m	250	49.67	12416.50
16.3			40 mm Dia MS Rod	MT	0.5	10908.79	5454.40
17			Galvanised steel Lattice Structures including hardwares for Towers, beams & equipment support	MT	40	3991.02	159640.80
			CONTROL EQUIPMENT				
18.1			Main 415V ACDB with 2/3/4 incomers	Set	1	14490.00	14490.00
18.2			220V DCDB with 2 incomers from battery charger/Station DCDB	Set	1	14490.00	14490.00
19			Control & Relay Panel (Testing and commissioning of relays in scope of panel OEM. Necessary manpower support, tools, tackles and testing equipment to be in scope of ETC contractor)				
19.1			ST Relay Panel (STRPA & STRPB) (1 set = 2 panel)	Sets	1	8868.93	8868.93
19.2			Control panel (1 set = 1 panel)	Sets	1	9744.49	9744.49
19.3			Augmentation of Existing 220kV Bus Bar Protection (Loose fitments)	Set	1	29944.20	29944.20
20			Repair/Modification work in Control room for fixing of 220 kV panels in present scope including covering of gap and floor finishing.	Lot	1	29539.54	29539.54
21			Making Cut out in the floor of existing control room, work includes cutting RCC & finishing	sq. m	10	2506.93	25069.32
22			Supplying Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652) and laying in front of Panels	sq. m	10	1492.23	14922.27
23			Panel Supporting Angles / Channel etc on cable trench in Control Room, Vertical support for cables etc (Including Supply).	MT	0.5	63856.30	31928.15
24			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	MT	0.5	3310.48	1655.24
25			Installing terminal connector wherever equipment installation is not in scope of contractor. Connectors shall be provided by BHEL. Any other ETC work related to equipment below is not in the scope of this BOQ.				
25.1			Connectors for 400 KV ST	Nos.	3	208.09	624.26
26			Unloading, storage & handing over of Essential/ Mandatory spares/Maintenance equipments to Customer as per Annexure-A .	Lot	1	93021.59	93021.59
27.1			Supply & ETC of OHPC approved make 2 HP Automatic Start/ Stop type Centrifugal pump and accessories for sump pit	Lot	1	11335.20	11335.20
27.2			Supply & ETC of OHPC approved make 0.5 HP Automatic Start/ Stop type Centrifugal pump and accessories for sump pit	Lot	1	6801.12	6801.12
28			Supply & Mounting of Phase Color Discs, Danger Plate and Identification Plates for bays & Equipments as per IS:2551; 1982 & IS:5; 1978.	Lot	1	113352.02	113352.02

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Customer : Odisha Hydro power Corporation Limited (OHPC)

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S.No.	Voltage Class (kV)	Type	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
29			Supply & fixing of Equipment fixing hardware. Brief specification is as follows - 1. Bolts - Class 5.6 of IS:1367 (part 3) - 1991 (M12-M33, 30-145mm lg. & fully threaded). 2. Nuts - Class 5 of IS:1367 (part 6) - 1980. 3. Plain Washers - A type conforming to IS: 2016-1967. 4. Spring Washer - Type B of IS: 3063-1972	kg	150	84.00	12600.00
30			Watch and ward of stored / erected material at project site and storage area or any other locations as per instruction of site in charge (round the clock security by authorised service agency consisting of armed guard)	Months	8	47250.00	378000.00
31			FIRE FIGHTING SYSTEM (Supply & ETC is in scope of ETC Contractor)				
	-	Fire Fighting System	Hydrant System, HVW Spray System, Fire Detection and Alarm System (Refer Annexure-B for Hydrant layout drg.)				
31.1			<u>SUPPLY</u> : 100NB MS Pipe	m	125	959.44	119929.69
31.2			<u>ETC</u> : 100NB MS Pipe	m	125	401.33	50166.67
31.3			<u>SUPPLY</u> : Single Headed Hydrant Valve	Nos	3	9777.01	29331.02
31.4			<u>ETC</u> : Single Headed Hydrant Valve	Nos	3	718.18	2154.53
31.5			<u>SUPPLY</u> : Hose Pipe (15m long each)	Nos	6	4703.13	28218.75
31.6			<u>ETC</u> : Hose Pipe (15m long each)	Nos	6	147.86	887.16
31.7			<u>SUPPLY</u> : Branch Pipe with Nozzle	Nos	3	2800.00	8400.00
31.8			<u>ETC</u> : Branch Pipe with Nozzle	Nos	3	73.93	221.79
31.9			<u>SUPPLY</u> : MS Fabricated Glass Fronted External Hose Cabinet	Nos	3	4285.07	12855.21
31.10			<u>ETC</u> : MS Fabricated Glass Fronted External Hose Cabinet	Nos	3	1288.49	3865.47
31.11			<u>SUPPLY</u> : CI Gate Valve (100 NB)	No	1	11314.67	11314.67
31.12			<u>ETC</u> : CI Gate Valve (100 NB)	No	1	718.18	718.18
Total Amount (Excluding GST)							36,16,305.97
<u>Following also forms the scope of ETC work in addition to above, but not limited to this.</u>							
1	Loading / Unloading, verification, handling, shifting to & from stores, proper storage, assembly, installation, pre-commissioning test and commissioning tests (As per OHPC/BHEL FQP) are included in the scope. Necessary skilled electrician & labour to be provided by ETC contractor to OEM during testing & commissioning.						
2	All the drawings and documents as per Annexure-1 shall be followed for ETC work.						
3	Annexure- 2 (OHPC Erection Specification) shall be followed for ETC work.						
4	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.						
5	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.						
6	The quantities given in items mentioned above may undergo a change to any extent.						
7	Quoted rates are deemed to be inclusive of miscellaneous works viz erection of clamps and connectors.						
8	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.						
9	Equipment erection (say Isolator) means complete erection, metallics, post insulator, 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.						
10	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.						
11	Completere ETC package is under the scope of bidder. All TNP including oil filterating machine, cranes etc. required to complete the job shall be provided by bidder only.						
12	Supervision of erection, Testing & commissioning of one no. Isolator of each type shall be done by supplier. Necessary manpower support, tools, tackles etc shall be in the scope of ETC contractor.						
13	Testing instruments (duly 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 sucessful 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.)						
13.1	DCRM (OPERATIONAL ANALYZER)						
13.2	Contact Resistance Measurement kit (CRM)						
13.3	Capacitance and Tan delta measurement Kit						
13.4	Dew Point Measurement kit						
13.5	5kV/1kV Megger						
13.6	Primary current Injection Kit						
13.7	Secondary current/Voltgae Injection kit						
13.8	1Ph Variac						
13.9	Multimeters						
13.10	Clamp on meter						
14	The scope of supply items as mentioned in the above BOQ are tentative. Items shall be supplied by Contractor as per exact site requirements only.						
15	For scope of supply items in ETC contractor scope following should be followed - (1) The approval of makes shall be obtained from BHEL/Customer. (2) Drawings and MQP shall be submitted for approval in line with specification and relevant IS. (3) Quality - Inspection & dispatch clearance shall be given by BHEL/Customer.						

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 220kV Switchyard Extn. at 6x60 MW Balimela power house, Balimela (R & M of unit 1 to 6 of Balimela Hydro Electric project)

Tender spec. No.:- TBSM/BALIMELA/ETC/TENDER/01/19-20,

DATE: 30.05.2019

(a) I/ We hereby agree to execute the above work at ----- % (in figure).....
----- (in words) Above / Below/ At Par the rates of items given in BOQ
(Annexure-I) of subject tender.

NOTE:

1. In this annexure the tenderer shall quote a percentage above/ below/At Par the rates shown in the Bill of Quantities (Annexure-I) of subject tender. 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 uniformly.

Date:

Place

Signature of tenderer

Name & Designation of authorized person(s) with seal

ANNEXURE-III

RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 220KV SWITCHYARD EXTN. AT 6X60 MW BALIMELA POWER HOUSE, BALIMELA (R & M OF UNIT 1 TO 6 OF BALIMELA HYDRO ELECTRIC PROJECT)

Sl No.	Description	Amount (Rs.)
1	Total amount as per the rates in BOQ for "Receipt of equipment/ material at site, unloading, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 220kV Switchyard Extn. at 6x60 MW Balimela power house, Balimela (R & M of unit 1 to 6 of Balimela Hydro Electric project) (Annexure-I)	36,16,305.97
2	Value of percentage above/below/at par (As indicated in Price Schedule Format, Annexure-II) applicable to the total amount of civil work (Sl. no. 1 above)% above/below/ at par
3	Total amount after consideration of percentage above/below/ at par.	