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**Bhutan Power Corporation Limited**  
(An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company)  
Registered Office, Thimphu  
Thimphu: Bhutan



104/BPC/C&PD/CMS/2023/Vol -1/

March 3, 2023

Subject: Amendment 1  
Bid Document: BPC/C&PD/CMS/TENDER-2023/06 (Labour Contract of DEPOSIT WORKS under Samdrup Jongkhar, Sarpang (Gelephu) and Thimphu Dzongkhag)

Sir,

This amendment is being issued to incorporate the following changes:

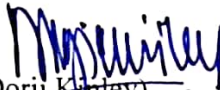
1. The revised price schedule for package – DW23-N1 under Thimphu is attached as annexure – I.
2. Sketch google map for package – DW23-N1 (Power Supply extension to Barshong BTS under Naro Gewog) for your reference.

Hence, bidders are advised to note the above changes and quote accordingly. All other terms and conditions remain unchanged.

Please confirm the receipt of this Addendum by return mail/fax to the CMS, CD, C&PD, BPC.

Thanking you,

Yours sincerely,

  
(Dorji Kinley)  
Senior Manager

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## Price Schedule

Package DW23-N1

Deposit works under Thimphu Dzongkhag

Item No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Power Supply extension to Barshong BTS under Naro Gewog</b>				
<b>A</b>	<b>MV Line (ACSR Bare conductor)</b>				
1	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associate works				
1.1	11kV lines (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m				
a	Rabbit conductor (2 phase 2 wire)	Km	1.80		
<b>B</b>	<b>LV Line (ABC conductor)</b>				
1.2	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling & Gerwa BT Tower				
a	For 4C, 95 Sq. mm	Km	0.04		
<b>C</b>	<b>Substation Construction</b>				
1.3	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, supply of miscellaneous items such as nut & bolt, lugs, etc., installation of transformer, fittings and accessories, installation of GEE earthing slab, painting of poles, concreting of pole base, testing, commissioning and any other associate works				
a	Three phase Transformer 11/0.415 kV - 25 kVA	No	1.00		
<b>Sub-Total for I</b>					
<b>II</b>	<b>Power supply to Integrated Waste Management Facility (NEC) at Memelakha under Chang Gewog, Thimphu Dzongkhag</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (OH)</b>				
	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, HV ABC cable termination kit jointings, supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
1.1	11kV lines (HV ABC conductor) with GI Steel Tubular Poles 10m				
a	6.35/11kV grade, 3 C x 300 sq.mm	KM	1.50		
1	Detail route survey, clearing of jungle/bushes along the RoW, rivers, footpath and roads etc., transportation (both headloading and vehicular) from stores to sites, road/drain/trench cutting & reinstatement wherever necessary, laying of cable in the trench/duct and with HDPE/Hume pipe of required size at road/drain crossing, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
1.1	11kV grade, 3 core x 300 sq.mm	Mtrs.	250.00		
1.2	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	11kV grade, 3 C x 300 Sq.mm	Set	10.00		
<b>B</b>	<b>LV Line (ABC conductor)</b>				
2.1	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 10 M				
a	For 4C, 95 Sq. mm	Km	1.50		
2.2	Detail route survey, clearing of jungle/bushes along the RoW, rivers, footpath and roads etc., transportation (both headloading and vehicular) from stores to sites, digging of trench (0.5m width & 750mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including HDPE/Hume pipe of required size at road/drain crossing, cable terminations, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
a	1.1kV grade, 4 core x 400 sq.mm	Mtrs.	150.00		

<b>C</b>	<b>Installation of RMU</b>				
1	Detailed site survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), earth work in excavation over areas & disposal of excavated earth, transportation of materials both head loading and vehicular from stores to sites, installation of RMU, laying of cables between RMU & transformer, earthing connections, supply of miscellaneous items such as nut & bolt, lugs, etc., testing & commissioning of RMU and any other associated works.				
a	11kV RMU	No	1.00		
<b>D</b>	<b>Substation Construction</b>				
1.3	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, supply of miscellaneous items such as nut & bolt, lugs, etc., installation of transformer, fittings and accessories, installation of GEE earthing slab, painting of poles, concreting of pole base, testing, commissioning and any other associate works				
a	Three phase Transformer 11/0.415 kV - 1250 kVA	No	1.00		
b	Three phase Transformer 11/0.415 kV - 500 kVA	No	1.00		
<b>E</b>	<b>Construction of Transformer Plinth - 2nos.</b>				
2.1	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift-Hard soil	cu.m	7.08		
2.2	Filling of trenches, sides of foundation etc. in layers < 200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	0.06		
2.3	Providing and laying Hand packed stone filling or soling with stones	cu.m	0.74		
2.4	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	0.56		
2.5	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level	cu.m	1.56		
2.6	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in CM 1:5	cu.m	4.22		
2.7	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork	sq.m	3.88		
2.8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500MPa) for R.C.C work including cutting, bending, binding and placing in position complete	Kg	68.06		
2.9	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint	kg	46.28		
2.10	Supplying/collection and stacking of stone aggregate-20 mm	sq.m	19.28		
<b>F</b>	<b>Construction of chain link fence (10mX10m) with gate - 2nos.</b>				
2.1	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift-All types of Soil	cu.m	12.16		
2.2	Providing & laying cement concrete 150mm thick (1:4:8), 40 mm agg., excluding the cost of centering & shuttering - 150mm thick	cu.m	3.24		
2.3	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In CM 1:5	cu.m	11.12		
2.4	Providing & laying cement concrete 100mm thick (1:3:6), 20 mm agg., excluding the cost of centering & shuttering	cu.m	2.44		
2.5	Providing and fixing centering and shuttering (form work), including strutting, propping, etc and removal of formwork.	sq.m	19.98		
2.6	Providing & fixing G.I chain-link mesh including fixing of post or struts, G.I staples (excluding the cost of posts/struts, earthwork, concrete etc.) - 3.15mm (8 SWG)x50mm	sq.m	144.00		
2.7	steel work in welded section including cutting, hoisting, fixing and applying primary coat of red lead paint/bitumen coating. - In flats, Tees, angles and channels.	Kg	801.92		
2.8	Providing & fixing bolts of various sizes including nuts & washers	Kg	14.80		
2.9	Providing & fixing G.I barbed Wire Netting including fixing of post or struts, G.I staples, coal taring in case of ballies complete (posts/struts, earthwork, concrete paid separately) - 2.5mm, (12 SWG), 4 barbs form by twisting two point wires, each two turns, pitch of barbs 100mm	m	320.00		

2.10	Substation gate fabricated out of M.S angle section 4m wide, 2m high with 2 leafs opening with all locking arrangement as per BPC standard.	No	2.00		
<b>G</b>	<b>Construction of RMU foundation</b>				
1	Earthwork in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.m on the plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed of soil to be neatly dressed-All types of soil	cu.m	3.91		
2	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	2.78		
3	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level - all work upto plinth level in 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	1.30		
4	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work, including cutting, bending, binding and placing in position completely.	cu.m	29.68		
5	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.	sq.m	13.52		
6	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	0.62		
7	Steel work in single section including cutting, hoisting, fixing, welding and applying priming coat of red lead paint	kg	66.12		
<b>Sub-Total for II</b>					
<b>Total Amount</b>		<b>Nu.</b>			
<b>Rebate</b>					
<b>In words:</b>					

Note:

The quantities mentioned here are indicative and are estimated values. These are subject to change at the time of execution. Payments shall be made based on the actual volume of works at the rate or price schedule of the contract.





# of 11kV line with substation and LV lines


1.5kM of 11kV, one No 20KVA DT and 0.04kM of LV lines


Leg

-  Red triangle symbol
-  Yellow pushpin symbol
-  Blue triangle symbol

Bhutan Telecom Tower 

Proposed 11KV BT extension 1.5Km 

 Barshong village

Existing 11kV Barshong feeder 

 600 m

