



ལྷོ། །འབྲུག་གློག་མེ་ལས་འཛིན།།

Bhutan Power Corporation Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company)

Registered Office, Thimphu

Distribution Services

Distribution Construction Department

Electrification Division

Thimphu · Rhetan



BPC/DS/DCD/ED/DW/C-15/2022/ 243

May 16, 2022

Subject: Amendment No. 1 – SECTION- I and SECTION III

Bid Document: BPC/DS/DCD/ED/DW/C-15 dated May 4, 2022 (Labour contract for construction of Electric Vehicle Charging Stations (EVCS) under Bumthang, Dagana, Lhuntse, Mongar, Paro, Pemagatshel, Punakha, Samdrup Jongkhar, Samtse, Sarpang, Tashi Yangtse, Tashigang, Trongsa, Tsirang, Wangdue and Zhemgang Dzongkhags (Deposit Works).

This amendment is issued with the following changes and will form a part of the bidding document.

SECTION- I: INSTRUCTION TO BIDDERS and SECTION III: BIDDING FORMS

1. Section – I: Detailed Notice Inviting tender under the brief scope of works in Sl. No. 3, name of package should read as “Labour contract for construction of Electric Vehicle Charging Stations (EVCS) under Paro, Punakha, Samtse and Wangdue Dzongkhags, (Package EDDW-C)”.

SECTION III - BIDDING FORMS UNDER FORM 7: BILL OF QUANTITIES (BOQ).

2. The Bill of Quantities reflected for civil works (Construction of chain link fence for 250kVA substation (6mX6m), Construction of platform for 250kVA transformer for package EDDW-A, package EDDW-B package EDDW-C package EDDW-D package EDDW-E and Construction of platform for 1 No. 750kVA packaged substation under Package EDDW-E in Trongsa Dzongkhag should be considered as per BoQ attached in annexure – I under this amendment.
3. Sample material BoQ is attached under the annexure – II.

Therefore, the prospective bidders are advised to note the above correction. However, due to the above inclusion and additional information, no time extension shall be granted and the submission date and time shall remain the same. This addendum forms part of bidding document.

Inconvenience caused is highly regretted.

Phone +975 02 321846; Fax: +975 02 321847; email: electrificationdiv@bpc.bt web: www.bpc.bt

12.

Construction of chain link fence for 1nos. 250kVA substation (6mX6m)**Annexure - I**

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
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 with in 50m lead & 1.5m lift-Hard soil	cu.m	23.50		
2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	2.08		
3	Providing and laying in position plain cement concret excluding cost of concreting and shuttering- All work upto plinth level - 1:3:6 (1 cement, 3 sand, 6 graded crushed rock 20mm nominal size)	cu.m	4.10		
4	Proving & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	26.56		
5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	5.6		
6	Steel work in single section including cutting,hoisting fixing and applying primming coat of red lead paint and finishing with two or more coats of synthetic enamel paint- In Tees, angles, falts and channels	kg	394.62		
7	Supplying and spreading of stone aggregate 20mm on substation yard (Thickness-100mm)	cu.m	2.94		
8	Providing and fixing of GI barbed wire netting including fixing of post or struts, G.I staples coal tarring in case of ballies complete (post,struts,earthwork, concrete paid separate)-2-5mm, (12SWG),4 bars form by twisting two points wires, each two turns,pitchof barbs 75mm	m	76.80		
9	Providing & fixing G.I chain-link mesh netting including fixing of post struts, G.I staples (excluding the cost of (post,struts,earthwork, concrete etc) -4mm (8SWG)x 50MM Height 2m	sq.m	48.00		
10	Substation gate fabricated out of M.S angle section 4m wide, 2m high with 2 leafs opening with all locking aragement as per BPC standard.	set	1.00		
TOTAL					

Construction of platform for 1no. 250kVA transformer (1.6mx1.5m)

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
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 with in 50m lead & 1.5m lift-Hard soil	cu.m	0.60		
2	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) work in beams, lintels, bands, plain window sills, staircases, spiral staircases upto floor five level excluding the cost of centering, shuttering and reinforcement	cu.m	1.54		
3	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	1.3		
4	Steel work in single section including cutting,hoisting fixing and applying primming coat of red lead paint- In Tees, angles, falts and channels	kg	15.78		
5	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	kg	161.01		
TOTAL					

Construction of platform for 1no. 750kVA packaged substation

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
1	Excavation in foundation tranches or drains not exceeding 1.5m in width or area 10sq.m on plan, including dressing & ramming, disposal of surplus soil with in 50m lead & 1.5m lift-Hard soil	cu.m	74.05		
2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	4.96		
3	Providing and laying in position plain cement concret excluding cost of concreting and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded crushed rock 20mm niminal size)	cu.m	9.28		
4	Proving & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	9.50		
5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	11.88		
6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	5.95		
	Total				

Substation Materials for 250kVA Pad Mounted Substation
Annexure - II

Sl. No.	Particulars	Unit	Quantity	Remarks
A	Supply of Substation Materials			
1	10 mtr long GI Steel tubular pole (with Top cap and base plate,etc)	No.	2	
2	Substation crossarm assembly with clamps (ISMC 100)	Set	1	
3	11 kV pin insulator complete with pin	Set	3	
4	11 kV disc insulator assembly incl socket thimble	Set	6	
5	Preform deadend termination	No	4	
6	Channel equipment supports			
6.1	GI support for DO Fuse (ISMC 75 x 40) Completed with Clamps,Bolts,Nuts,etc - 2 sets	Set	2	
6.2	GI support for Lightning Arrestor (ISMC 75 x 40) Completed with Clamps,Bolts,Nuts,etc	Set	1	
7	9 kV, 10 kA lightning arrestor complete set (gapless type) - set of 3 polymer type	Set	1	
8	11 kV DO fuse unit (1 set =3 DO fuses)	Set	1	
9	Distribution Transformer, 250kVA with MCCB at LT side (Outdoor type)*	Set	1	
10	Conductor - RABBIT	Mtr	21	
11	PG clamps	No.	6	
12	Lugs - RABBIT	No	12	
13	1.1 KV 4 core, 400 sqmm (E) grade, PVC insulated, armoured type cable with Aluminium conductor	Mtr	5	
14	Double Compression Gland for 4 core 400 sq.mm	Set	2	
15	Aluminium Cable lugs for 400 sq.mm	Nos	8	
16	Distribution Pillar, 4 ways, 400 Amps	Set	1	
17	GEE Earthing Slab	Set	4	
18	G.I. Strip 25 x 6 mm	kg	50	
19	Aluminium paint with paste	Ltr.	3	
20	Black Bituminous paint	Ltr.	1	

Material for three phase 11kV, 3Cx 70 sq.mm XLPE cable per km

Sl. No.	Particulars	Unit	Quantity	Remarks
	Foreign Materials			
1	Supply of 11 kV, 3 core, 70 sq mm Aluminium conductor crosslinked polyethylene insulated, PVC sheathed Armoured UG cable	Mtr.	1100	
2	Supply of 11kV XLPE cable termination kit (outdoor type) for 3 core 70 sq mm cable	set	2	
3	Supply of 11kV XLPE cable termination kit (indoor type) for 3 core 70 sq mm cable	Set	2	
4	11KV route marker	No.	40	
5	11kV Straight through jointing kit for 70sq mm cable	Set	4	
	Local Materials			
6	Supply of protective bricks for HT cable protection 500X250X75	No.	4347	
7	Supply of sand for cable bedding	cu.m	550	

Material for three phase 11kV, 3Cx 150 sq.mm XLPE cable per km

Sl. No.	Particulars	Unit	Quantity	Remarks
	Foreign Materials			
1	Supply of 11kV, 3 core, 150 sq mm Aluminium conductor crosslinked polyethylene insulated, PVC sheathed Armoured UG cable	Mtr.	1100	
2	Supply of 11kV XLPE cable termination kit (outdoor type) for 3 core 150 sq mm cable	set	2	
3	Supply of 11kV XLPE cable termination kit (indoor type) for 3 core 150 sq mm cable	Set	2	
4	11KV route marker	No.	40	
5	11kV Straight through jointing kit for 150sq mm cable	Set	4	
	Local Materials			
6	Supply of protective bricks for HT cable protection	No.	4347	
7	Supply of sand for cable bedding	cu.m	550	

Table 78: Material for three phase 11kV, 3Cx185 sq.mm XLPE cable per km

Sl. No.	Particulars	Unit	Quantity	Remarks
	Foreign Materials			
1	Supply of 11kV, 3 core, 185 sq mm Aluminium conductor crosslinked polyethylene insulated, PVC sheathed Armoured UG cable	Mtr.	1100	
2	Supply of 11kV XLPE cable termination kit (outdoor type) for 3 core 185 sq mm cable	set	2	
3	Supply of 11kV XLPE cable termination kit (indoor type) for 3 core 185 sq mm cable	Set	2	
4	11KV route marker	No.	40	
5	11kV Straight through jointing kit for 185sq mm cable	Set	4	
	Local Materials			
6	Supply of protective bricks for HT cable protection	No.	4347	
7	Supply of sand for cable bedding	cu.m	550.00	