



འབྲུག་གློག་མེ་ལས་འཛིན།  
**Bhutan Power Corporation Limited**

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

Registered Office, Thimphu  
Thimphu: Bhutan



103/BPC/C&PD/CMS/2023/Vol -1/73

May 31, 2023

Subject: Amendment No. 2  
Bid Document: BPC/C&PD/CMS/TENDER-2023/16 (Labour Contract of PLAN WORKS, 2023 under Chukha, Dagana, Gasa, Haa, Lhuentse, Mongar, Paro, Punakha, Samdrup Jongkhar, Samtse, Sarpang, Trashigang, Trashiyangtse, Tsirang, and Wangdue Dzongkhags)

Dear Sir,

This amendment is being issued to incorporate the changes in the price schedule which is enclosed (Price Schedule).

Therefore, the 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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**Registered Office:**  
Bhutan Power Corporation Ltd.,  
PO Box: 580,  
Thimphu: Bhutan

**PRICE SCHEDULE**

Package: PW23 - B1

Labour Contract of Plan Work under Chukha Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Construction of Distribution Substation at Norgaytoed, Darlha for Green Works Recycle.</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	125 kVA	No	1.00		
<b>II</b>	<b>Extension of 11kV line Burjabir village, Darlha Gewog.</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	11 kV lines (ACSR conductor) with Steel Tubular Poles				
a	Rabbit conductor (3 phase, 3 wire)	Km	0.40		
1.2	Low Voltage Lines ( ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	0.40		
b	2 core 50 sq.mm	Km	1.20		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	25 kVA	No	1.00		
<b>III</b>	<b>Extension of 11kV line for Bhutan Trout Farming at Geduchhu, Bongo Gewog.</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	11 kV lines (ACSR conductor) with Steel Tubular Poles				
a	Rabbit conductor (3 phase, 3 wire)	Km	1.25		

**PRICE SCHEDULE**

**Package: PW23 - B1**

**Labour Contract of Plan Work under Chukha Dzongkhag**

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	63 kVA	No	1.00		
<b>IV</b>	<b>Construction of Additional Distribution substation for Gedu Village</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	63 kVA	No	1.00		
<b>V</b>	<b>Conversion of ACSR conductor into LV ABC cable (4CX50sqmm) within Tshimalakha Lower Secondary School, Chukha.</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
1.2	Low Voltage Lines ( ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	0.40		
1.2	Dismantling of existing MV ACSR RABBIT conductor (3 phase, 4 wire) & rolling, dismantling of MV poles, dismantling of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	Km	0.40		
	<b>Total Contract Price (Nu.)</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.

## PRICE SCHEDULE

Package: PW23 - B2L1

Labour Contract of Plan Work under Chukha &amp; Samtse Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
	<b>Chukha Dzongkhag</b>				
<b>I</b>	<b>Extension of 33kV HT Line , Construction of 33/0.240kV 25 kVA substation and Extension of 2cx50sqmm LT ABC cable to Bichgao Village under Lhamoizingkha Gewog, Lhamoizingkha.</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	33 kV lines (ACSR conductor) with Steel Tubular Poles				
a	Rabbit conductor (3 phase, 3 wire)	Km	0.90		
1.2	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	2 core 50 sq.mm	Km	2.60		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Single phase 33/0.240kV				
a	25 kVA	No	1.00		
<b>II</b>	<b>Replacement of faulty 11kV 3cx300sqmm UG cable between Lower Market RMU and Helipad RMU.</b>				
<b>A</b>	<b>Medium Voltage Lines (UG)</b>				
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, digging of trench (0.5 m width & 1000 mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, 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.	1,100.00		
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	3.00		
1.3	Erection of Straight Through Jointing kits				
a	11kV grade, 3 C x 300 Sq.mm	Set	4.00		

## PRICE SCHEDULE

Package: PW23 - B2L1

Labour Contract of Plan Work under Chukha &amp; Samtse Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>III</b>	<b>Extension of 3xc 150sq.mm Arm. Al cable XPLE Ins 11kV, construction of 11/0.415kV 1000kVA USS and extension of UG LT line for power supply to upcoming 23 Workshop at Lower Amochu.</b>				
<b>A</b>	<b>Medium Voltage Lines (UG)</b>				
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, digging of trench (0.5 m width & 1000 mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, 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.	622.00		
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	2.00		
1.3	Erection of Straight Through Jointing kits				
a	11kV grade, 3 C x 300 Sq.mm	Set	2.00		
<b>B</b>	<b>Substation Construction</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 USS, cable termination, installation of GEE slab earthing & connections, supply of miscellaneous items such as nut & bolt, lugs, etc., testing & commissioning of USS and any other associated works.				
1.1	11/0.415kV, 1000 kVA USS	No	1.00		
<b>2</b>	<b>Construction of foundation for 1000 kVA USS</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	89.49		
2.2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	7.17		
2.3	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 nimal size)	cu.m	13.17		
2.4	Proving & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	11.36		
2.5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	14.04		
2.6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	8.60		

## PRICE SCHEDULE

Package: PW23 - B2L1

Labour Contract of Plan Work under Chukha &amp; Samtse Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>C</b>	<b>Low Voltage Lines (UG)</b>				
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 protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, construction of foundations (PCC) for appropriate size of the distribution pillar, installation of distribution pillars, cable terminations & earth connections, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
2.1	1.1kV grade, 4 core x 400 sq.mm	Mtrs.	741.00		
2.2	1.1kV grade, 4 core x 150 sq.mm	Mtrs.	329.00		
2.3	Distribution pillar, 4/6ways	No	9.00		
2.4	Erection of Straight Through Jointing kits				
a	1.1kV grade, 4 C x 300 Sq.mm	Set	3.00		
b	1.1kV grade, 4 C x 150 Sq.mm	Set	3.00		
<b>IV</b>	<b>Construction of permanent power supply structure for POEs under ESD Phuentsholing</b>				
<b>A</b>	<b>Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles, testing, commissioning and any other associated works including disconnection & reconnection of service cable.				
1.1	Low Voltage Lines ( ABC) with Steel Tubular Poles				
a	4 core 95 sq.mm	Km	4.47		
<b>B</b>	Service connection (2x6 sq.mm copper cable) including transportation both head loading and vehicular from store to site.	No	20.00		
	<b>Samtse Dzongkhag</b>				
<b>V</b>	<b>Upgradation of 63kVA, 11/0.415kV to 250kVA, 11/0.415kV Substation at Budney</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	250 kVA	No	1.00		
1.2	Dismantling of existing transformer (11/0.415kV, 63kVA) & distribution pillar, dismantled of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	No	1.00		

**PRICE SCHEDULE****Package: PW23 - B2L1****Labour Contract of Plan Work under Chukha & Samtse Dzongkhag**

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>2</b>	<b>Construction of chain link fence &amp; gate and Transformer foundation</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	23.50		
2.2	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		
2.3	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	2.08		
2.4	Providing and laying in position plain cement concrete 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		
2.5	Providing & Fixing centering and shuttering (Formwork),including strutting,cpropping etc., and removal of formwork foundation and plinth etc.,	sq.m	26.56		
2.6	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	6.90		
2.7	Steel work in single section including cutting,choisting fixing and applying primming coat of red lead paint and finishing with two or more coats of synthetic enamel paint- In Tees, angles, flats and channels	kg	410.40		
2.8	Supplying and spreading of stone aggregate 20mm on substation yard (Thickness-100mm)	cu.m	2.94		
2.9	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, pitch of barbs 75mm	m	76.80		
2.10	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		
2.11	Substation gate fabricated out of M.S angle section 4m wide, 2m high with 2 leafs opening with all locking arragement as per BPC standard.	set	1.00		
2.12	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		
2.13	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	161.64		
	<b>Total Contract Price (Nu.)</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.

**PRICE SCHEDULE**

**Package EDPW - C1R1**

**Labour Contract for Plan Work under Dagana & Tsirang Dzongkhags**

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
	<b>Dagana Dzongkhag</b>				
<b>I</b>	<b>Construction of 125kVA, 33/0.415kV substation at Tshendagang PWD colony (Zone-2)</b>				
<b>A</b>	<b>Medium Voltage Lines &amp; Low Voltage Lines (OH)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	Low Voltage Lines (ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	0.40		
<b>B</b>	<b>Substation Construction</b>				
2	Detailed site 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, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
2.1	Three phase 33/0.415 kV				
a	125 kVA	No	1.00		
<b>II</b>	<b>Construction of 63kVA, 33/0.415kV substation near Indra Poudel House, Gozhi.</b>				
<b>A</b>	<b>Medium Voltage Lines &amp; Low Voltage Lines (OH)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	Low Voltage Lines (ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	0.30		
<b>B</b>	<b>Substation Construction</b>				
2	Detailed site 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, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
2.1	Three phase 33/0.415 kV				
a	63 kVA	No	1.00		



**PRICE SCHEDULE**

**Package EDPW - C1R1**

**Labour Contract for Plan Work under Dagana & Tsirang Dzongkhags**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Nu.)</b>	<b>Amount (Nu.)</b>
	<b>Tsirang Dzongkhag</b>				
<b>III</b>	<b>Extension of LV ABC line at BOC Building</b>				
<b>A</b>	<b>Medium Voltage Lines &amp; Low Voltage Lines (OH)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	Low Voltage Lines (ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	0.65		
	<b>Total Contract Price (Nu.)</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.

**PRICE SCHEDULE**

Package PW23 - E2H2

Labour Contract for Plan Work under Haa & Paro Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
	<b>Haa Dzongkhag</b>				
<b>I</b>	<b>Construction of LV UG line in and around Haa Throm</b>				
<b>A</b>	<b>Low Voltage Lines (UG)</b>				
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, digging of trench (0.5m width & 750mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, construction of foundations (PCC) for appropriate size of the distribution pillar, installation of distribution pillars, cable terminations & earth connections, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
1.1	1.1kV grade, 4 core x 400 sq.mm	Mtrs.	500.00		
1.2	1.1kV grade, 4 core x 70 sq.mm	Mtrs.	500.00		
1.3	Erection of Straight Through Jointing kits				
a	1.1kV grade, 4 C x 400 Sq.mm	Set	2.00		
1.4	Distribution pillar, 800 Amps, 6ways	No	4.00		
1.4	Mini-Feeder pillar, 400 Amps, 6ways	No	10.00		
	<b>Paro Dzongkhag</b>				
<b>I</b>	<b>Construction of 11/0.415 kV, 250 kVA Substation at Gaptey</b>				
<b>A</b>	<b>Substation Construction</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) wherever required, earth work in excavation over areas & disposal of excavated earth, transportation of materials both head loading and vehicular from stores to sites, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, construction of foundations (PCC) for appropriate size of the distribution pillar, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	250 kVA	No	1.00		
<b>2</b>	<b>Construction of chain link fence with gate and Transformer Plinth</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	23.50		
2.2	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		
2.3	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	2.08		
2.4	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		
2.5	Providing & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	26.56		
2.6	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	6.90		

**PRICE SCHEDULE**

**Package PW23 - E2H2**

**Labour Contract for Plan Work under Haa & Paro Dzongkhags**

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
2.7	Steel work in single section including cutting, hoisting fixing and applying priming coat of red lead paint and finishing with two or more coats of synthetic enamel paint- In Tees, angles, flats and channels	kg	410.40		
2.8	Supplying and spreading of stone aggregate 20mm on substation yard (Thickness-100mm)	cu.m	2.94		
2.9	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, pitch of bars 75mm	m	76.80		
2.10	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		
2.11	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.	set	1.00		
2.12	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		
2.13	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	161.64		
<b>II</b>	<b>Construction of 11 kV RMU (2 Nos.) at Town</b>				
<b>A</b>	<b>Medium Voltage Lines (UG)</b>				
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, digging of trench (0.5 m width & 1000 mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, 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 150 sq.mm	Mtrs.	75.00		
1.2	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	11 kV grade, 3 C x 150 Sq.mm	Set	8.00		
<b>B</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 cable between RMU & transformer, earthing connections, supply of miscellaneous items such as nut & bolt, lugs, etc., testing & commissioning of RMU and any other associated works.				
1.1	11kV RMU	No	2.00		
<b>2</b>	<b>Construction of platform for RMU - 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 with in 50m lead & 1.5m lift-Hard soil	cu.m	3.88		
2.2	Providing and laying Hand packed stone filling or soling with stones	cu.m	1.00		
2.3	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	0.68		

**PRICE SCHEDULE**

Package PW23 - E2H2

Labour Contract for Plan Work under Haa & Paro Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
2.4	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in CM 1:5	cu.m	20.14		
2.5	Steel work in single section including cutting, hoisting fixing and applying priming coat of red lead paint- In Tees, angles, falts and channels	kg	182.22		
<b>III</b>	<b>Construction of 33kV ACSR Rabbit Line &amp; 33/0.415 kV, 63 kVA Substation at Lhading Goenpa.</b>				
<b>A</b>	<b>Medium Voltage Lines (OH)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	33 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	RABBIT conductor (3 phase, 3 wire)	Km	0.90		
1.2	Low Voltage Lines (ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	0.10		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	63 kVA	No	1.00		
	<b>Total Contract Price (Nu.)</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.

**PRICE SCHEDULE**

Package: PW23-F1G1

Labour Contract of Plan Work under Lhuentse & Mongar Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
	<b>Lhuentse Dzongkhag</b>				
<b>I</b>	<b>Up gradation of 63kVA substation to 125kVA substation including transformer at Tangmachu School.</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	125 kVA	No	1.00		
1.2	Dismantling of existing transformer (11/0.415kV, 63kVA) & distribution pillar, dismantled of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	No	1.00		
	<b>Mongar Dzongkhag</b>				
<b>I</b>	<b>Construction of MV UG line and Installation of RMU at Gyelpozhing.</b>				
<b>A</b>	<b>Low Voltage Lines (UG)</b>				
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, digging of trench (0.5m width & 750mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, construction of foundations (PCC) for appropriate size of the distribution pillar, installation of distribution pillars, cable terminations & earth connections, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
1.1	1.1kV grade, 4 core x 400 sq.mm	Mtrs.	230.00		
1.2	1.1kV grade, 4 core x 300 sq.mm	Mtrs.	360.00		
1.3	Erection of Straight Through Jointing kits				
a	1.1kV grade, 4 C x 400 Sq.mm	Set	2.00		
a	1.1kV grade, 4 C x 300 Sq.mm	Set	2.00		
1.4	Mini-Feeder pillar, 400 Amps, 6ways	No	4.00		
<b>II</b>	<b>Installation of 25kVA 11/0.415kV pole mounted transformer with steel tubular pole at Konbar</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	25 kVA	No	1.00		

**PRICE SCHEDULE**

Package: PW23-F1G1

Labour Contract of Plan Work under Lhuentse & Mongar Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>III</b>	<b>Undergrounding Ring System ( 1.1kV grade, 4 core 400sq mm UG) MLSS RMU to Mongar Town</b>				
<b>A</b>	<b>Low Voltage Lines (UG)</b>				
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, digging of trench (0.5m width & 750mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, construction of foundations (PCC) for appropriate size of the distribution pillar, installation of distribution pillars, cable terminations & earth connections, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
1.1	1.1kV grade, 4 core x 400 sq.mm	Mtrs.	360.00		
1.3	Erection of Straight Through Jointing kits				
a	1.1kV grade, 4 C x 400 Sq.mm	Set	2.00		
1.4	Mini-Feeder pillar, 400 Amps, 6ways	No	1.00		
	<b>Total Contract Price (Nu.)</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.

## PRICE SCHEDULE

Package: PW23-K1

Labour Contract of Plan Work under Samdrup Jongkhar Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Construction of Distribution substations at Dewathang (a) 250 kVA ,11/0.415 kV at Dewathang LSS</b>				
<b>A</b>	<b>Medium Voltage Lines (UG)</b>				
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, digging of trench (0.5 m width & 1000 mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, 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 150 sq.mm	Mtrs.	30.00		
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 150 Sq.mm	Set	2.00		
<b>A</b>	<b>Low Voltage Lines</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 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	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	4 core 95 sq.mm	Km	0.07		
<b>B</b>	<b>Substation Construction</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, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, construction of foundations (PCC) for appropriate size of the distribution pillar, cable connections/terminations, supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
1.2	Three phase 11/0.415 kV				
a	250 kVA	No	1.00		
<b>2</b>	<b>Construction of chain link fence with gate and Transformer Plinth</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	23.50		
2.2	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		
2.3	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	2.08		
2.4	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		

## PRICE SCHEDULE

Package: PW23-K1

Labour Contract of Plan Work under Samdrup Jongkhar Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
2.5	Providing & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	26.56		
2.6	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	6.90		
2.7	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, flats and channels	kg	410.40		
2.8	Supplying and spreading of stone aggregate 20mm on substation yard (Thickness-100mm)	cu.m	2.94		
2.9	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		
2.10	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		
2.11	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.	set	1.00		
2.12	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		
2.13	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	161.64		
<b>II</b>	<b>Construction of 11 kV ACSR Rabbit line to bifurcate 11 kV Feeder from 33/11 kV Langchenphu Substation</b>				
<b>A</b>	<b>Medium Voltage Lines (OH &amp; UG)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	11 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	Rabbit conductor (3 phase, 3 wire)	Km	1.20		
1.2	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 (0.5 m width & 1000 mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
a	11 kV grade, 3 core x 150 sq.mm	Mtrs.	30.00		
1.3	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	11 kV grade, 3 core x 150 sq.mm	Set	2.00		



## PRICE SCHEDULE

Package: PW23-K1

Labour Contract of Plan Work under Samdrup Jongkhar Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>III</b>	<b>Replacement of LV ACSR Rabbit conductor with LV ABC conductor at Langchenphu</b>				
<b>A</b>	<b>Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles, testing, commissioning and any other associated works including disconnection & reconnection of service cable.				
1.1	Low Voltage Lines ( ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	1.80		
a	2 core 50 sq.mm	Km	0.30		
1.2	Dismantling of existing LV ACSR conductor (3phase, 4wire/2phase, 3wire/1phase, 2wire) & rolling, dismantling of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	Km	2.10		
<b>B</b>	Service connection (2x10 sq.mm copper cable) including transportation both head loading and vehicular from store to site.	No	41.00		
<b>IV</b>	<b>Electrification of Bakalamshing village under Phuntshothang Gewog</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	33 kV lines (ACSR conductor) with Steel Tubular Poles				
a	Rabbit conductor (3 phase, 3 wire)	Km	1.71		
1.2	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	2 core 50 sq.mm	Km	1.16		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Single phase 33/0.240 kV				
a	25 kVA	No	1.00		
<b>C</b>	Service connection (2x10 sq.mm copper cable) including transportation both head loading and vehicular from store to site.	No	9.00		
	<b>Total Contract Price (Nu.)</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

**PRICE SCHEDULE**

**Package: PW23-DJ1**

**Labour Contract of Plan Work under Gasa & Punakha Dzongkhags**

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Upgradation of 63kVA transformer to 250kVA at Eusakha</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	250 kVA	No	1.00		
1.2	Dismantling of existing transformer (33/0.415kV, 63kVA) & distribution pillar, dismantled of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	No	1.00		
<b>2</b>	<b>Construction of chain link fence &amp; gate</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	23.50		
2.2	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		
2.3	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	2.08		
2.4	Providing and laying in position plain cement concrete 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		
2.5	Providing & Fixing centering and shuttering (Formwork),including strutting,cpropping etc., and removal of formwork foundation and plinth etc.,	sq.m	26.56		
2.6	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	6.90		
2.7	Steel work in single section including cutting,choisting fixing and applying priming coat of red lead paint and finishing with two or more coats of synthetic enamel paint- In Tees, angles, flats and channels	kg	410.40		
2.8	Supplying and spreading of stone aggregate 20mm on substation yard (Thickness-100mm)	cu.m	2.94		
2.9	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, pitch of barbs 75mm	m	76.80		
2.10	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		
2.11	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.	set	1.00		
2.12	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		
2.13	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	161.64		

**PRICE SCHEDULE**

Package: PW23-DJ1

Labour Contract of Plan Work under Gasa & Punakha Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>II</b>	<b>Upgradation of 63kVA transformer to 250kVA at Laphuna</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	250 kVA	No	1.00		
1.2	Dismantling of existing transformer (33/0.415kV, 63kVA) & distribution pillar, dismantled of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	No	1.00		
<b>2</b>	<b>Construction of chain link fence &amp; gate</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	23.50		
2.2	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		
2.3	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	2.08		
2.4	Providing and laying in position plain cement concrete 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		
2.5	Providing & Fixing centering and shuttering (Formwork),including strutting,cpropping etc., and removal of formwork foundation and plinth etc.,	sq.m	26.56		
2.6	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	6.90		
2.7	Steel work in single section including cutting,choisting fixing and applying priming coat of red lead paint and finishing with two or more coats of synthetic enamel paint- In Tees, angles, flats and channels	kg	410.40		
2.8	Supplying and spreading of stone aggregate 20mm on substation yard (Thickness-100mm)	cu.m	2.94		
2.9	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, pitch of barbs 75mm	m	76.80		
2.10	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		
2.11	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.	set	1.00		
2.12	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		
2.13	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	161.64		

**PRICE SCHEDULE**

Package: PW23-DJ1

Labour Contract of Plan Work under Gasa & Punakha Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>III</b>	<b>Upgradation of 63 kVA transformer to 125kVA at Damji</b>				
<b>A</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	125 kVA	No	1.00		
1.2	Dismantling of existing transformer (33/0.415kV, 63kVA) & distribution pillar, dismantled of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	No	1.00		
<b>IV</b>	<b>Conversion of single to 3 phase line and substations from Dawakha to Thamji, Nidupchu and Sechena</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	33 kV lines with Steel Tubular Poles				
a	Rabbit conductor (3 phase, 3 wire)	Km	3.80		
b	Conductor - AAAC 49.5 sq.mm	Km	0.53		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415kV				
a	250 kVA	No	1.00		
b	63 kVA	No	5.00		
<b>2</b>	<b>Construction of chain link fence &amp; gate</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	23.50		
2.2	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		
2.3	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	2.08		

**PRICE SCHEDULE**

**Package: PW23-DJ1**

**Labour Contract of Plan Work under Gasa & Punakha Dzongkhags**

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
2.4	Providing and laying in position plain cement concrete 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		
2.5	Providing & Fixing centering and shuttering (Formwork),including strutting,cpropping etc., and removal of formwork foundation and plinth etc.,	sq.m	26.56		
2.6	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	6.90		
2.7	Steel work in single section including cutting,choisting fixing and applying primming coat of red lead paint and finishing with two or more coats of synthetic enamel paint- In Tees, angles, flats and channels	kg	410.40		
2.8	Supplying and spreading of stone aggregate 20mm on substation yard (Thickness-100mm)	cu.m	2.94		
2.9	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, pitch of barbs 75mm	m	76.80		
2.10	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		
2.11	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.	set	1.00		
2.12	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		
2.13	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	161.64		
1.2	Dismantling of existing transformer (33/0.24kV, 63kVA) & distribution pillar, dismantled of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	No	6.00		
<b>V</b>	<b>Conversion of 11kV HV ABC to AAC line at Singyepelri Palace</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	33 kV lines with Steel Tubular Poles				
b	Conductor - AAC Covered 111sq.mm	Km	1.30		
1.2	Dismantling of existing HV ACSR conductor (3phase, 3wire) & rolling, dismantling of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	Km	1.30		
	<b>Total Contract Price (Nu.)</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.

## PRICE SCHEDULE

Package: PW23-DJ2

Labour Contract of Plan Work under Gasa &amp; Punakha Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Power supply extension to BBSC FM Station at Laya</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	33 kV lines with Steel Tubular Poles				
a	Conductor - AAAC Covered 111sq.mm	Km	2.50		
1.2	Low Voltage Lines (ABC) with Steel Tubular Poles				
a	2 core 50 sq.mm	Km	1.00		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Single phase 33/0.240 kV				
a	16 kVA	No	1.00		
<b>II</b>	<b>Power supply for BT Tower( Repeater station) at Lungu, Laya gewog, Gasa Dzongkhag</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	33 kV lines with Steel Tubular Poles				
a	Conductor - AAAC Covered 111sq.mm	Km	1.00		
1.2	Low Voltage Lines (ABC) with Steel Tubular Poles				
a	2 core 50 sq.mm	Km	0.10		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Single phase 33/0.240 kV				
a	16 kVA	No	1.00		
	<b>Total Contract Price (Nu.)</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

## PRICE SCHEDULE

Package: PW23-M1

Labour Contract of Plan Work under Sarpang Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Augmentation/Extension of LV ABC lines in and around Gelephu/Sarpang of FY 2023</b>				
<b>A</b>	<b>Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles, testing, commissioning and any other associated works including disconnection & reconnection of service cable.				
1.1	Low Voltage Lines ( ABC) with Steel Tubular Poles				
a	4 core 50 sq.mm	Km	2.50		
<b>II</b>	<b>Upgradation of existing overhead distribution network to underground network at Gelephu Core Area</b>				
<b>A</b>	<b>Medium Voltage Lines (UG)</b>				
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, digging of trench (0.5 m width & 1000 mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including protective bricks and with HDPE/Hume pipe of required size at road/drain crossing, sand covering of 75mm bedding below and above the cable, erection of cable route marker for every 20 meters and joint marker wherever needed, 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 150 sq.mm (Tapping point to RMU)	Mtrs.	50.00		
1.1	11kV grade, 3 core x 150 sq.mm (Charali Feeder)	Mtrs.	70.00		
1.1	11kV grade, 3 core x 150 sq.mm (Vegetable Market)	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 core x 150 sq.mm	Set	6.00		
<b>B</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 cable between RMU & transformer, earthing connections, supply of miscellaneous items such as nut & bolt, lugs, etc., testing & commissioning of RMU and any other associated works.				
1.1	11kV RMU	No	1.00		
<b>2</b>	<b>Construction of platform for RMU - 1nos.</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	1.94		
2.2	Providing and laying Hand packed stone filling or soling with stones	cu.m	0.50		
2.3	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	0.34		
2.4	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in CM 1:5	cu.m	10.07		
2.5	Steel work in single section including cutting,hoisting fixing and applying primming coat of red lead paint- In Tees, angles, falts and channels	kg	91.11		

## PRICE SCHEDULE

Package: PW23-M1

Labour Contract of Plan Work under Sarpang Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>B</b>	<b>Substation Construction</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 USS, cable termination, installation of GEE slab earthing & connections, supply of miscellaneous items such as nut & bolt, lugs, etc., testing & commissioning of USS and any other associated works.				
1.1	11/0.415kV, 750 kVA USS	No	1.00		
<b>2</b>	<b>Construction of foundation for 750 kVA USS</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 with in 50m lead & 1.5m lift-Hard soil	cu.m	89.49		
2.2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	7.17		
2.3	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	13.17		
2.4	Proving & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	11.36		
2.5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	14.04		
2.6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	8.60		
<b>C</b>	<b>Low Voltage Lines (UG)</b>				
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/on the wall (existing hook/rack) 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	1.1kV grade, 4 core x 300 sq.mm				
a	Charali to core town	Mtrs.	850.00		
b	Vegetable market to core town	Mtrs.	1,170.00		
1.2	Mini-Feeder pillar, 600 Amps, 6ways with HRC fuses	No	95.00		
	<b>Total Contract Price (Nu.)</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.



**PRICE SCHEDULE**

Package: PW23-O1

Labour Contract of Plan Work under Trashigang Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Electrification of Lhamzang &amp; Merung</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (OH &amp; UG)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	33 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	RABBIT conductor (3 phase, 3 wire)	Km	1.80		
1.2	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	4 core 50 sq.mm	Km	0.65		
b	2 core 50 sq.mm	Km	0.94		
1.3	Service connection (2x6 sq.mm copper cable) including transportation both head loading and vehicular from store to site.	No	13.00		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	25 kVA	No	1.00		
<b>II</b>	<b>Electrification of Resung, Nangrey, Chotowoong, Petawoong, Duethro, Nungya &amp; Bazam</b>				
<b>A</b>	<b>Low Voltage Lines (OH &amp; UG)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	2 core 50 sq.mm (Chotowoong, Resung, Petawoong, Nangrey)	Km	2.93		
b	2 core 50 sq.mm (Nungye)	Km	0.80		
c	2 core 50 sq.mm (Bazam)	Km	0.50		
d	2 core 50 sq.mm (Duethro, Bartsham)	Km	1.00		
1.2	Service connection (2x6 sq.mm copper cable) including transportation both head loading and vehicular from store to site.				
a	Chotowoong, Resung, Petawoong, Nangrey	No	5.00		
b	Nungye	No	3.00		
c	Bazam	No	1.00		

**PRICE SCHEDULE**

Package: PW23-O1

Labour Contract of Plan Work under Trashigang Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>III</b>	<b>Power Supply Extension to Kharungla (Zero Point of Gewog Center (GC) roads of Thirmshing and Kangpar Gewogs).</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (OH &amp; UG)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	11 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	RABBIT conductor (3 phase, 3 wire)	Km	2.80		
1.2	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	4 core 50 sq.mm	Km	0.07		
1.3	Service connection (2x6 sq.mm copper cable) including transportation both head loading and vehicular from store to site.	No	1.00		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	25 kVA	No	1.00		
<b>IV</b>	<b>Relocation of 25 kVA, 11/0.415 kV substation and extension of 11 kV MV line of Kosargang and Doanchema Villages under Kangpar Gewog.</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (OH &amp; UG)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	11 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	RABBIT conductor (3 phase, 3 wire)	Km	1.80		
1.2	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	4 core 50 sq.mm	Km	0.10		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	25 kVA	No	1.00		

**PRICE SCHEDULE**

Package: PW23-O1

Labour Contract of Plan Work under Trashigang Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>V</b>	<b>Construction of additional 11/0.415kV, 125 kVA substation at Bikhar</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (OH &amp; UG)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	11 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	RABBIT conductor (3 phase, 3 wire)	Km	0.10		
1.2	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	4 core 50 sq.mm	Km	0.10		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	125 kVA	No	1.00		
	<b>Total Contract Price (Nu.)</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.

## PRICE SCHEDULE

Package: PW23-P1

Labour Contract of Plan Work under Trashiyangtse Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>Construction of DOG conductor MV line between Karmazom and Daka substation under Khamdang gewog</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (OH)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	33 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	Rabbit conductor (3 phase, 3 wire)	Km	0.90		
1.2	Installation of Load Break Switch (LBS) - 33kV	No	1.00		
<b>II</b>	<b>Construction of Dog conductor and 33/0.415kV, 63kVA transformer &amp; 0.415kV LV line to the new workshop at BOD under Yangtse Geog.</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (OH)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	33 kV lines (ACSR conductor) with GI Steel Tubular Poles 10m				
a	Rabbit conductor (3 phase, 3 wire)	Km	0.20		
1.2	Low Voltage Lines (ABC) with Galvanized Steel Tubular Poles 7.5m				
a	4 core 50 sq.mm	Km	0.20		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	63 kVA	No	1.00		
	<b>Total Contract Price (Nu.)</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.

**PRICE SCHEDULE**

Package: PW23-S1

Labour Contract of Plan Work under Wangdue Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
<b>I</b>	<b>LV UG extension Phobjikha</b>				
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (UG)</b>				
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, construction of foundations (PCC) for appropriate size of the distribution pillar, installation of distribution pillars, cable terminations & earth connections, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
1.1	1.1kV grade, 4 core x 70 sq.mm	Mtrs.	500.00		
1.2	1.1kV grade, 4 core x 35 sq.mm	Mtrs.	500.00		
1.3	Erection of Distribution pillar, 4/6ways	No	10.00		
<b>II</b>	<b>11/0.415KV 63 kVA to 125KVA upgradation, Gela &amp; Eusa &amp; Installation of 33/0.415KV, 63kVA substation at Shelley, khotakha</b>				
<b>A</b>	<b>Substation Construction</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, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, construction of foundations (PCC) for appropriate size of the distribution pillar, cable connections/terminations, 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	Three phase 11/0.415 kV				
a	125 kVA at Gela	No	1.00		
b	125 kVA at Eusa	No	1.00		
1.2	Three phase 33/0.415 kV				
a	63 kVA at Shelley, Khotakha	No	1.00		
<b>III</b>	<b>MV line Feeder V (11kV) Extension from Gangthangka to Wangdue Dzong CSS</b>				
<b>A</b>	<b>Medium Voltage Lines (OH)</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 stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, 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	33 kV lines (HV ABC) with GI Steel Tubular Poles 10m				
a	3 Core 95 sq.mm	Km	1.20		
<b>A</b>	<b>Medium Voltage Lines and Low Voltage Lines (UG)</b>				
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, construction of foundations (PCC) for appropriate size of the distribution pillar, installation of distribution pillars, cable terminations & earth connections, 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.	20.00		

**PRICE SCHEDULE**

Package: PW23-S1

Labour Contract of Plan Work under Wangdue Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
1.3	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	2.00		
<b>IV</b>	<b>Electrification of Kuenzang Choegar Tsongola, Khashi Gewog, Wangdue</b>				
<b>A</b>	<b>Medium / Low Voltage Lines (OH)</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) wherever necessary, transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles & stays wherever necessary, erection of poles & stays wherever necessary, laying and stringing of conductors, fittings and accessories, painting of existing poles & fittings, 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	33 kV lines (ACSR conductor) with Steel Tubular Poles				
a	Rabbit conductor (3 phase, 3 wire)	Km	2.79		
1.2	Low Voltage Lines ( ABC) with Galvanized Steel Tubular Poles 7.5m				
a	4 core 50 sq.mm	Km	0.30		
<b>B</b>	<b>Substation Construction</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), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, installation of transformer & distribution pillar, fittings and accessories, installation of GEE slab earthing & connections, cable connections/terminations, 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	Three phase 33/0.415 kV				
a	63 kVA	No	1.00		
	<b>Total Contract Price (Nu.)</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.