

PRICE SCHEDULE

Package: PW23-N1

Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
I	Up-gradation of 11/0.415 kV, 16 kVA to 63 kVA at Gyentsawa including extension LV lines at Gyentsawa				
A	Medium Voltage Lines and Low Voltage Lines (OH)				
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	4 core 120 sq.mm	Km	0.50		
B	Substation Construction				
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, installation of transformer, installation of LBS, installation of DO fuse, installation of LA & 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		
1.2	Dismantling of existing transformer (11/0.415 kV, 16kVA) & distribution pillar, dismantling of associated fittings & accessories including poles, and transportation of dismantled materials from site to ESD store.	No	1.00		
II	Up-gradation of 33/0.415 kV, 63kVA to 500 kVA at Kuzhuchen including extension LV lines				
A	Low Voltage Lines (OH)				
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	4 core 120 sq.mm	Km	1.00		
B	Substation Construction				
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, installation of transformer, installation of LBS, installation of DO fuse, installation of LA & 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	500 kVA	No	1.00		

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Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
1.2	Dismantling of existing transformer (33/0.415 kV, 63 kVA) & distribution pillar, dismantling of associated fittings & accessories, and transportation of dismantled materials from site to ESD store.	No	1.00		
2	Construction of chain link fence (10mX10m) with gate				
2.1	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift-All types of Soil	cu.m	6.075		
2.2	Providing & laying cement concrete 150mm thick (1:4:8), 40 mm agg., excluding the cost of centering & shuttering -150mm thick	cu.m	1.620		
2.3	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In CM 1:5	cu.m	5.560		
2.4	Providing & laying cement concrete 100mm thick (1:3:6), 20 mm agg., excluding the cost of centering & shuttering	cu.m	1.220		
2.5	Providing and fixing centering and shuttering (form work), including strutting, propping, etc and removal of formwork.	sq.m	9.990		
2.6	Providing & fixing G.I chain-link mesh including fixing of post or struts, G.I staples (excluding the cost of posts/struts, earthwork, concrete etc.) - 3.15mm (8 SWG)x50mm	sq.m	72.000		
2.7	steel work in welded section including cutting, hoisting, fixing and applying primary coat of red lead paint/bitumen coating. - In flats, Tees, angles and channels.	Kg	400.960		
2.8	Providing & fixing bolts of various sizes including nuts & washers	Kg	7.400		
2.9	Providing & fixing G.I barbed Wire Netting including fixing of post or struts, G.I staples, coal taring in case of ballies complete (posts/struts, earthwork, concrete paid separately) - 2.5mm , (12 SWG), 4 barbs form by twisting two point wires, each two turns, pitch of barbs 100mm	m	160.000		
	GATE				
2.10	Substation gate fabricated out of M.S angle section 4m wide, 2m high with 2 leafs opening with all locking arrangement as per BPC standard.	NO	1.000		
3	Construction of Transformer Plinth & PCC at the substation				
3.1	Excavation in foundation tranches or drains not exceeding 1.5m in width or area 10sq.m on plan, including dressing & ramming, disposal of surplus soil with in 50m lead & 1.5m lift-Hard soil	cu.m	3.53		
3.2	Filling of trenches, sides of foundation etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	0.03		
3.3	Providing and laying Hand packed stone filling or soling with stones	cu.m	0.36		
3.4	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	9.91		
3.5	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level	cu.m	0.78		
3.6	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in CM 1:5	cu.m	2.11		
3.7	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork	sq.m	1.93		
3.8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500MPa) for R.C. work including cutting, bending, binding and placing in position complete	Kg	34.02		
3.9	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint	kg	23.13		
3.10	Supplying/collection and stacking of stone aggregate-20 mm	sq.m	9.638		

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Package: PW23-N1

Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
III	Up-gradation of 33/0.415 kV, 100 kVA to 500 kVA at Jagoma including extension MV and LV lines (Relocation)				
A	Low Voltage Lines (OH)				
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	4 core 120 sq.mm	Km	0.70		
B	Substation Construction				
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, LBS, DO fuse & 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	500 kVA	No	1.00		
1.2	Dismantling of existing transformer (11/0.415 kV, 100kVA) & distribution pillar, dismantling of associated fittings & accessories, and transportation of dismantled materials from site to ESD store.	No	1.00		
2	Construction of chain link fence (10mX10m) with gate				
2.1	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift-All types of Soil	cu.m	6.075		
2.2	Providing & laying cement concrete 150mm thick (1:4:8), 40 mm agg., excluding the cost of centering & shuttering -150mm thick	cu.m	1.620		
2.3	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In CM 1:5	cu.m	5.560		
2.4	Providing & laying cement concrete 100mm thick (1:3:6), 20 mm agg., excluding the cost of centering & shuttering	cu.m	1.220		
2.5	Providing and fixing centering and shuttering (form work), including strutting, propping, etc and removal of formwork.	sq.m	9.990		
2.6	Providing & fixing G.I chain-link mesh including fixing of post or struts, G.I staples (excluding the cost of posts/struts, earthwork, concrete etc.) - 3.15mm (8 SWG)x50mm	sq.m	72.000		
2.7	steel work in welded section including cutting, hoisting, fixing and applying primary coat of red lead paint/bitumen coating. - In flats, Tees, angles and channels.	Kg	400.960		
2.8	Providing & fixing bolts of various sizes including nuts & washers	Kg	7.400		
2.9	Providing & fixing G.I barbed Wire Netting including fixing of post or struts, G.I staples, coal taring in case of ballies complete (posts/struts, earthwork, concrete paid separately) - 2.5mm , (12 SWG), 4 barbs form by twisting two point wires, each two turns, pitch of barbs 100mm	m	160.000		
	GATE				
2.10	Substation gate fabricated out of M.S angle section 4m wide, 2m high with 2 leafs opening with all locking arrangement as per BPC standard.	NO	1.000		

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Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
3	Construction of Transformer Plinth & PCC at the substation				
3.1	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	3.53		
3.2	Filling of trenches, sides of foundation etc. in layers < 200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	0.03		
3.3	Providing and laying Hand packed stone filling or soling with stones	cu.m	0.36		
3.4	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	9.91		
3.5	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level	cu.m	0.78		
3.6	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in CM 1:5	cu.m	2.11		
3.7	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork	sq.m	1.93		
3.8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500MPa) for R.C. work including cutting, bending, binding and placing in position complete	Kg	34.02		
3.9	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint	kg	23.13		
3.10	Supplying/collection and stacking of stone aggregate-20 mm	sq.m	9.638		
	Total Contract Price (Nu.)				
	In words				

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-N2

Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
I	Upgradation of Distribution transformer with Compact Sub-Station with 750 kVA at Kuenzang Lam				
A	Medium Voltage Lines and Low Voltage Lines (UG & OH)				
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.	20.00		
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		
B	Substation Construction				
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		
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.	50.00		
2.2	Dismantling of existing transformer (11/0.415 kV, 400kVA) & distribution pillar, dismantling of associated fittings & accessories, and transportation of dismantled materials from site to ESD store.	No	1.00		
2	Construction of platform for Unitized Substation - 1nos.				
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	48.16		
2.2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	3.20		
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	6.94		
2.4	Providing & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	8.27		
2.5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	9.36		
2.6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	3.84		

PRICE SCHEDULE

Package: PW23-N2

Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
II	Construction of MV line, Unitized Substation (USS) and LV lines at Kabisa				
A	Medium Voltage Lines and Low Voltage Lines (UG)				
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	33 kV grade, 3 core x 300 sq.mm	Mtrs.	20.00		
1.2	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	33 kV grade, 3 C x 300 Sq.mm	Set	2.00		
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.	50.00		
B	Substation Construction				
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	33/0.415kV, 750 kVA USS	No	1.00		
2	Construction of platform for Unitized Substation				
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	48.16		
2.2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	3.20		
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	6.94		
2.4	Providing & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	8.27		
2.5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	9.36		
2.6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	3.84		

PRICE SCHEDULE

Package: PW23-N2

Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
III	Construction/Up-gradation of MV line, Unitized Substation (USS) and LV lines at Depsi Gom				
A	Medium Voltage Lines and Low Voltage Lines (UG)				
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	33 kV grade, 3 core x 300 sq.mm	Mtrs.	20.00		
1.2	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	33 kV grade, 3 C x 300 Sq.mm	Set	2.00		
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.	50.00		
B	Substation Construction				
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	33/0.415kV, 750 kVA USS	No	1.00		
2	Construction of platform for Unitized Substation				
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	48.16		
2.2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	3.20		
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	6.94		
2.4	Providing & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	8.27		
2.5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	9.36		
2.6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	3.84		

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Package: PW23-N2

Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
IV	Construction/Up-gradation of MV line, Unitized Substation (USS) and LV lines at Depsi Thang Lam				
A	Medium Voltage Lines and Low Voltage Lines (UG)				
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	33 kV grade, 3 core x 300 sq.mm	Mtrs.	40.00		
1.2	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	33 kV grade, 3 C x 300 Sq.mm	Set	2.00		
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.	50.00		
B	Substation Construction				
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	33/0.415kV, 750 kVA USS	No	1.00		
2	Construction of platform for Unitized Substation				
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	48.16		
2.2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	3.20		
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	6.94		
2.4	Providing & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	8.27		
2.5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	9.36		
2.6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	3.84		

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Package: PW23-N2

Labour Contract of Plan Work under Thimphu Dzongkhag

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
V	Construction/Up-gradation of MV line, Unitized Substation (USS) and LV lines at Ramtokto				
A	Medium Voltage Lines and Low Voltage Lines (UG)				
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	33 kV grade, 3 core x 300 sq.mm	Mtrs.	40.00		
1.2	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	33 kV grade, 3 C x 300 Sq.mm	Set	2.00		
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.	50.00		
B	Substation Construction				
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	33/0.415kV, 750 kVA USS	No	1.00		
2	Construction of platform for Unitized Substation				
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	48.16		
2.2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	3.20		
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	6.94		
2.4	Providing & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	8.27		
2.5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	9.36		
2.6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	3.84		
	Total Contract Price (Nu.)				
	In words				

Note:

The quantities mentioned here are indicative and are estimated values. These are subject to change at the time of execution. Payments shall be

PRICE SCHEDULE

Package: PW23-Q1

Labour Contract of Plan Work under Trongsa Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
I	Conversion of Three Phase Rabbit & AAAC (49.49 sq.mm) Conductor to Three phase line Dog & AAAC (111 sq.mm) Conductor under Trongsa Dzongkhag				
A	Medium Voltage Lines				
1	Transportation of materials both head loading and vehicular from stores to sites, laying and stringing of conductors, rectification of spike earthing wherever necessary & 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	Dog conductor (3 phase, 3 wire)	Km	15.82		
b	AAAC 111 sq.mm (3 phase, 3 wire)	km	5.00		
2	Dismantling of existing MV ACSR RABBIT conductor / AAAC 49.49 sq.mm (3 phase) & rolling, dismantled materials from sites to ESD store.				
a	Rabbit conductor (3 phase, 3 wire)	Km	15.82		
b	AAAC 49 sq.mm (3 phase, 3 wire)	km	5.00		
3	Transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles, erection of poles and supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
a	Steel Tubular/Telescopic Pole - Four Pole with structures	No	2.00		
b	Steel Tubular/Telescopic Pole - Triple Pole with structures	No	1.00		
c	Steel Tubular/Telescopic Pole - Double Pole with structures	No	17.00		
d	Telescopic Pole - Single Pole with structures	No	21.00		
e	Erection of Stay Set	No	112.00		
f	Casting of existing poles	No	174.00		
g	Painting of existing poles & fittings	No	174.00		
4	Clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads) wherever necessary (ROW)	KM	2.00		
	Total Contract Price (Nu.)				
	In words				

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-S2

Labour Contract of Plan Work under Wangdue Dzongkhags

Sl. No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
I	Conversion of Three Phase Rabbit & AAAC (49.49 sq.mm) Conductor to Three phase line Dog & AAAC (111sq.mm) Conductor under Wangdue Dzongkhag				
A	Medium Voltage Lines				
1	Clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads) wherever necessary (ROW), transportation of materials both head loading and vehicular from stores to sites, laying and stringing of conductors, 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	Dog conductor (3 phase, 3 wire)	Km	6.50		
b	AAAC 111 sq.mm (3 phase, 3 wire)	km	11.50		
2	Dismantling of existing MV ACSR RABBIT conductor / AAAC 49.49 sq.mm (3 phase) & rolling, dismantled materials from sites to ESD store.				
a	Rabbit conductor (3 phase, 3 wire)	Km	6.50		
b	AAAC 49 sq.mm (3 phase, 3 wire)	km	11.50		
3	Transportation of materials both head loading and vehicular from stores to sites, digging of holes for poles, erection of poles and supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
a	Steel Tubular/Telescopic Pole - Triple Pole with structures	No	2.00		
b	Steel Tubular/Telescopic Pole - Double Pole with structures	No	17.00		
c	Telescopic Pole - Single Pole with structures	No	29.00		
d	Erection of Stay Set	No	99.00		
e	Casting of existing poles	No	277.00		
f	Painting of existing poles & fittings (Forest Green Paint)	No	277.00		
	Total Contract Price (Nu.)				
	In words				

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-DJ3

Labour Contract of Plan Work under Gasu & Punakha Dzongkhags

Sl. No.	Description	Unit	Qty	Rate (Nu.)	Quoted Price (Nu.)
I	Extension of of 33kV MV line with RABBITConductors at Khenchendra				
A	Medium / Low Voltage Lines (OH)				
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 with Steel Tubular Poles				
a	Rabbit conductor (3 phase, 3 wire)	Km	1.56		
b	0.415 kV LVABC Cable (4 core 50sq.mm)	Km	1.00		
B	Substation Construction				
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, installation of transformer, installation of LBS, installation of DO fuse, installation of LA & distribution pillar (600/400 Amps), 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	125 kVA	No	1.00		
II	Conversion of 11kV HV ABC to AAAC line at Singyepelri Palace				
A	Medium / Low Voltage Lines (OH)				
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, Installation of LBS, 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 with Steel Tubular Poles				
a	Conductor - AAAC Covered 111sq.mm (3 Phase, 3 wire)	Km	1.30		
1.2	Dismantling of existing HV conductor & rolling, MV Poles, dismantling of associated fittings & accessories, and transportation of dismantled materials from sites to ESD store.	Km	1.30		
	Total Contract Price (Nu.)				
	Rebate (Nu.)				
	Total Contract Price After Rebate (Nu.)				

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