

Price Schedule

Package DW23-K1

Deposit works under Samdrup Jongkhar Dzongkhag (BT Towers)

Item No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
I	Power supply extension to Daisam BT Tower under Langchenphu Geog.				
A	MV Line (ACSR Bare conductor)				
1	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associate works				
1.1	33kV lines (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m				
a	Rabbit conductor (2 phase 2 wire)	Km	1.30		
	LV Line (ABC conductor)				
1.2	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling & Gerwa BT Tower				
a	For 2C, 50 Sq. mm	Km	0.066		
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 & 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.				
a	Three phase Transformer 33/0.240 kV - 16 kVA	No	1.00		
b	Erection and installation of 1P Dist.Board 3W 100A with 3nos 63A HRC	No	1.00		
Sub Total for I					
II	Power supply extension to BT Tower, Rayzor				
A	MV Line (ACSR Bare conductor)				
1	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associate works				
1.1	33kV lines (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m				
a	Rabbit conductor (2 phase 2 wire)	Km	0.03		
	LV Line (ABC conductor)				
1.2	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling & Gerwa BT Tower				
a	For 2C, 50 Sq. mm	Km	0.400		
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 & 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.				
a	Three phase Transformer 33/0.240 kV - 16 kVA	No	1.00		
b	Erection and installation of 1P Dist.Board 3W 100A with 3nos 63A HRC	No	1.00		
Sub Total for II		Nu.			

III	Power supply to BT Tower at Thrizor, Martshala						
A	MV Line (ACSR Bare conductor)						
1	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associate works						
1.1	33kV lines (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m						
a	Rabbit conductor (2 phase 2 wire)			Km	0.80		
	LV Line (ABC conductor)						
1.2	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling & Gerwa BT Tower						
a	For 2C, 50 Sq. mm			Km	0.200		
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 & 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.						
a	Three phase Transformer 33/0.240 kV - 16 kVA			No	1.00		
b	Erection and installation of 1P Dist.Board 3W 100A with 3nos 63A HRC			No	1.00		
Sub Total for III				Nu.			
IV	Power supply to BT Tower at Thrizor, Martshala						
A	MV Line (ACSR Bare conductor)						
1	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associate works						
1.1	33kV lines (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m - Dewathang						
a	Rabbit conductor (2 phase 2 wire)			Km	0.02		
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 & 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.						
a	Three phase Transformer 33/0.240 kV - 16 kVA			No	1.00		
b	Erection and installation of 1P Dist.Board 3W 100A with 3nos 63A HRC			No	1.00		
Sub Total for IV				Nu.			
Total Amount (Sub-total I+II+III+IV)				Nu.			
Rebate							
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 DW23-M1

Deposit works under Sarpang (Gelephu) Dzongkhag

Item No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
Electrification of NPPF complex at Gelephu					
A Medium Voltage Lines (MV Underground cable)					
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.				
2	Laying of 11kV, 3 core, 150 Sq.mm Aluminium conductor cross linked polyethylene insulated, PVC sheathed Armoured UG cable	Mtr	100.00		
3	Termination of 11kV XLPE cable (outdoor type) for 3 core 150 sq mm cable	Set	1.00		
4	Termination of 11kV XLPE cable (indoor type) for 3 core 150 sq mm cable	Set	5.00		
5	Erection of Route marker (20m span) along with concreting, 11 kV	No	3.00		
Sub-Total for A					
B 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.				
2	1.1 kV grade, 4 core,400 sq.mm PVC insulated PVC sheathed steel armoured underground aluminium cable, 1.1. kV grade.	M	1,350.00		
3	St. thr. Jointing kit for 4CX400 sqmm	No	2.00		
4	Erection of Mini fedder pillar 600/400A, 6 Way	No	4.00		
5	Erection of Route marker (20m span) along with concreting(50 nos per km), 0.415 kV	No	34.00		
Sub-Total for B					
C Installation, testing and commissioning of RMU					
1.1	Transportation and installation of RMU including earthing connections, termination of cables at RMU, testing, commissioning and other associated works to complete in full.				
a	11kV RMU, SF6-4nos VCB, 630A, OD	No	1.00		
Sub-Total for C					
D Construction of RMU foundation					
1	Earthwork in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.m on the plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed of soil to be neatly dressed-All types of soil	cu.m	3.91		
2	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	2.78		
3	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level - all work upto plinth level in 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	1.30		
4	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work, including cutting, bending, binding and placing in position completely.	cu.m	29.68		
5	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.	sq.m	13.52		
6	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	0.62		
7	Steel work in single section including cutting, hoisting, fixing, welding and applying priming coat of red lead paint	kg	66.12		
Sub- Total for D					

Package DW23-M1

Deposit works under Sarpang (Gelephu) Dzongkhag

Item No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
E	Installation, testing and commissioning of 750 kVA USS				
1	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, installation of transformer, installation of GEE earthing slab & connections, testing, commissioning and any other associate works				
a	11/0.415, 750 kVA	No	2.00		
Sub-Total for E					
F	Construction of foundation for 750 kVA USS				
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	89.49		
2	Providing and laying Hand packed stone filling or soiling with stones (Thickness-150mm)	cu.m	7.17		
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		
4	Proving & Fixing centering and shuttering (Formwork),including strutting,propping etc and removal of formwork foundation and plinth etc	sq.m	11.36		
5	Providing & Laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	14.04		
6	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	cu.m	8.60		
Total for F					
Sub- Total for F (2XSub-total)					
Total (A+B+C+D+E+F)		Nu.			
Rebate					
In words:					

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Price Schedule

Package DW23-N1

Deposit works under Thimphu Dzongkhag

Item No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
I	Power Supply extension to Barshong BTS under Naro Gewog				
A	MV Line (ACSR Bare conductor)				
1	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associate works				
1.1	33kV lines (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m				
a	Rabbit conductor (2 phase 2 wire)	Km	1.80		
B	LV Line (ABC conductor)				
1.2	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling & Gerwa BT Tower				
a	For 4C, 95 Sq. mm	Km	0.04		
C	Substation Construction				
1.3	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, supply of miscellaneous items such as nut & bolt, lugs, etc., installation of transformer, fittings and accessories, installation of GEE earthing slab, painting of poles, concreting of pole base, testing, commissioning and any other associate works				
a	Three phase Transformer 11/0.415 kV - 25 kVA	No	1.00		
Sub-Total for I					
II	Power supply to Integrated Waste Management Facility (NEC) at Memelakha under Chang Gewog, Thimphu Dzongkhag				
A	Medium Voltage Lines and Low Voltage Lines (OH)				
	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, HV ABC cable termination kit jointings, supply of miscellaneous items such as nut & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works.				
1.1	11kV lines (HV ABC conductor) with GI Steel Tubular Poles 10m				
a	6.35/11kV grade, 3 C x 300 sq.mm	KM	1.50		
1	Detail route survey, clearing of jungle/bushes along the RoW, rivers, footpath and roads etc., transportation (both headloading and vehicular) from stores to sites, road/drain/trench cutting & reinstatement wherever necessary, laying of cable in the trench/duct and with HDPE/Hume pipe of required size at road/drain crossing, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
1.1	11kV grade, 3 core x 300 sq.mm	Mtrs.	250.00		
1.2	Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect				
a	11kV grade, 3 C x 300 Sq.mm	Set	10.00		
B	LV Line (ABC conductor)				
2.1	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 10 M				
a	For 4C, 95 Sq. mm	Km	1.50		
2.2	Detail route survey, clearing of jungle/bushes along the RoW, rivers, footpath and roads etc., transportation (both headloading and vehicular) from stores to sites, digging of trench (0.5m width & 750mm depth) for direct burial, road/drain cutting & reinstatement wherever necessary, laying of cable including HDPE/Hume pipe of required size at road/drain crossing, cable terminations, supply of miscellaneous items such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
a	1.1kV grade, 4 core x 400 sq.mm	Mtrs.	150.00		

C	Substation Construction				
1.3	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and vehicular from the stores to sites, digging of holes, erection of poles, supply of miscellaneous items such as nut & bolt, lugs, etc., installation of transformer, fittings and accessories, installation of GEE earthing slab, painting of poles, concreting of pole base, testing, commissioning and any other associate works				
a	Three phase Transformer 11/0.415 kV - 1250 kVA	No	1.00		
b	Three phase Transformer 11/0.415 kV - 500 kVA	No	1.00		
D	Construction of Transformer Plinth - 2nos.				
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	7.08		
2.2	Filling of trenches, sides of foundation etc. in layers < 200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	0.06		
2.3	Providing and laying Hand packed stone filling or soling with stones	cu.m	0.74		
2.4	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	0.56		
2.5	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level	cu.m	1.56		
2.6	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in CM 1:5	cu.m	4.22		
2.7	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork	sq.m	3.88		
2.8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500MPa) for R.C.C work including cutting, bending, binding and placing in position complete	Kg	68.06		
2.9	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint	kg	46.28		
2.10	Supplying/collection and stacking of stone aggregate-20 mm	sq.m	19.28		
E	Construction of chain link fence (10mX10m) with gate - 2nos.				
2.1	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift - All types of Soil	cu.m	12.16		
2.2	Providing & laying cement concrete 150mm thick (1:4:8), 40 mm agg., excluding the cost of centering & shuttering - 150mm thick	cu.m	3.24		
2.3	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In CM 1:5	cu.m	11.12		
2.4	Providing & laying cement concrete 100mm thick (1:3:6), 20 mm agg., excluding the cost of centering & shuttering	cu.m	2.44		
2.5	Providing and fixing centering and shuttering (form work), including strutting, propping, etc and removal of formwork.	sq.m	19.98		
2.6	Providing & fixing G.I chain-link mesh including fixing of post or struts, G.I staples (excluding the cost of posts/struts, earthwork, concrete etc.) - 3.15mm (8 SWG)x50mm	sq.m	144.00		
2.7	steel work in welded section including cutting, hoisting, fixing and applying primary coat of red lead paint/bitumen coating. - In flats, Tees, angles and channels.	Kg	801.92		
2.8	Providing & fixing bolts of various sizes including nuts & washers	Kg	14.80		
2.9	Providing & fixing G.I barbed Wire Netting including fixing of post or struts, G.I staples, coal taring in case of ballies complete (posts/struts, earthwork, concrete paid separately) - 2.5mm, (12 SWG), 4 barbs form by twisting two point wires, each two turns, pitch of barbs 100mm	m	320.00		
2.10	Substation gate fabricated out of M.S angle section 4m wide, 2m high with 2 leafs opening with all locking arrangement as per BPC standard.	No	2.00		

F	Construction of RMU foundation				
1	Earthwork in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.m on the plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed of soil to be neatly dressed-All types of soil	cu.m	3.91		
2	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	2.78		
3	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level - all work upto plinth level in 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	1.30		
4	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work, including cutting, bending, binding and placing in position completely.	cu.m	29.68		
5	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.	sq.m	13.52		
6	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	0.62		
7	Steel work in single section including cutting, hoisting, fixing, welding and applying priming coat of red lead paint	kg	66.12		
Sub-Total for II					
Total Amount		Nu.			
Rebate					
In words:					

Note:

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