Price Schedule

Package DW23-K1

Deposit works under Samdrup Jongkhar Dzongkhag (BT Towers)

Item No.	Description				
I	Power supply extension to Daisam BT Tower under Langchenphu Geog.	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
A	MV Line (ACSR Bare conductor)				
	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of				
	trunks, branches & removing the trees (especially blocking of foot path & roads),				
1	transportation of materials both head loading and vechicular 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 &				
1.2	Gerwa BT Tower				
a	For 2C, 50 Sq. mm	Km	0.066		
В	Substation Construction				
	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 vechicular from stores to sites, digging				
1	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.				
	Three phase Transformer 33/0.240 kV - 16 kVA	No	1.00		
	Erection and installation of 1P Dist.Board 3W 100A with 3nos 63A HRC	No	1.00		
Sub Total					
II	Power supply extension to BT Tower, Rayzor				
A	MV Line (ACSR Bare conductor)				
	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of				
	trunks, branches & removing the trees (especially blocking of foot path & roads),				
1	transportation of materials both head loading and vechicular from the stores to sites,				
	digging of holes, erection of poles, laying and stringing of conductors, fittings and				
1.1	accessories, testing, commissioning and any other associate works				
1.1	33kV lines (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m Rabbit conductor (2 phase 2 wire)	Km	0.03		
a	LV Line (ABC conductor)	KIII	0.03		
	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling &				
1.2	Gerwa BT Tower				
a		Km	0.400		
В	Substation Construction				
	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 vechicular from stores to sites, digging				
1	of holes, erection of poles, installation of transformer & distribution pillar, fittings and				
1	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			
	MV Line (ACSR Bare conductor)			
	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 vechicular 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			
1.1	Rabbit conductor (2 phase 2 wire)	Km	0.80	
а	LV Line (ABC conductor)	KIII	0.80	
	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling &			
1.2	Gerwa BT Tower			
_	For 2C, 50 Sq. mm	Vm	0.200	
n D		KIII	0.200	
В	Substation Construction			
	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 vechicular 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.			
	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	
ub Total	l for III	Nu.		<u>'</u>
		114.		
	Power supply to BT Tower at Thrizor, Martshala MV Line (ACSR Bare conductor)			
A				
	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 vechicular 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		0.00	
a	Rabbit conductor (2 phase 2 wire)	Km	0.02	
В	Substation Construction			
	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 vechicular from stores to sites, digging			
	of holes, erection of poles, installation of transformer & distribution pillar, fittings and			
1	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		Nu.		•
	ount (Sub-total I+II+III+IV)	Nu.		
Rebate	Can coult 1 - 21 - 211 - 21 /	. \ u.		
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n 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.	orks under Sarpang (Gelephu) Dzongkhag	IJn:4	Quantitu	Doto (N.,)	Amount (N.)
item No.	Description Floatrification of NPPE complex at Colombu	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
	Electrification of NPPF complex at Gelephu Modium Voltage Lines (MV Lunderground cable)				
A	Medium Voltage Lines (MV Uunderground 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 polyehtylene 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				
В	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		
C	Sub-Total for B				
	Installation, testing and commissioning of RMU Transportation and installation of RMU including earthing connections, termination				
1.1	of cables at RMU, testing, commissioning and other associated works to complete in full.				
a	, , ,	No	1.00		
	Sub-Total for C				
1	Construction of RMU foundation 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

Detailed route survey, clearing of jungle/bushes, felling of trees including cuttin trunks, branches & removing the trees (especially blocking of foot path & roads) transportation of materials both head loading and vechicular from the stores to sinstallation of transformer, installation of GEE earthing slab & connections, testic commissioning and any other associate works a 11/0.415, 750 Sub-Total for E F Construction of foundation for 750 kVA USS 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 lead & 1.5m lift-Hard soil Providing and laying Hand packed stone filling or soiling with stones (Thickness 150mm) 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 crurock 20mm niminal size) Providing & Fixing centering and shuttering (Formwork), including strutting, propertic and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & In cement mortar 1:4	es, g, vA No Om cu.m	2.00			
trunks, branches & removing the trees (especially blocking of foot path & roads) transportation of materials both head loading and vechicular from the stores to sinstallation of transformer, installation of GEE earthing slab & connections, testic commissioning and any other associate works a 11/0.415, 750 Sub-Total for E F Construction of foundation for 750 kVA USS 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 slead & 1.5m lift-Hard soil Providing and laying Hand packed stone filling or soiling with stones (Thickness 150mm) Providing and laying in position plain cement concret excluding cost of concreti and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded cru rock 20mm niminal size) Proving & Fixing centering and shuttering (Formwork),including strutting,propett and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & providing and shuttering foundation and plinth etc	es, g, vA No Om cu.m				
Sub-Total for E F Construction of foundation for 750 kVA USS 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 1 lead & 1.5m lift-Hard soil Providing and laying Hand packed stone filling or soiling with stones (Thickness 150mm) Providing and laying in position plain cement concret excluding cost of concreti and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded cru rock 20mm niminal size) Proving & Fixing centering and shuttering (Formwork),including strutting,propett and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & 1)m cu.m				
F Construction of foundation for 750 kVA USS 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 1 lead & 1.5m lift-Hard soil Providing and laying Hand packed stone filling or soiling with stones (Thickness 150mm) Providing and laying in position plain cement concret excluding cost of concreti and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded cru rock 20mm niminal size) Proving & Fixing centering and shuttering (Formwork),including strutting,properte and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & 1		89.49			
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 lead & 1.5m lift-Hard soil Providing and laying Hand packed stone filling or soiling with stones (Thickness 150mm) Providing and laying in position plain cement concret excluding cost of concreti and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded cru rock 20mm niminal size) Proving & Fixing centering and shuttering (Formwork),including strutting,properte and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Providing & Providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Provi		89.49			
1 10sq.m on plan, including dressing & ramming, disposal of surplus soil with in slead & 1.5m lift-Hard soil 2 Providing and laying Hand packed stone filling or soiling with stones (Thickness 150mm) Providing and laying in position plain cement concret excluding cost of concreti and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded cru rock 20mm niminal size) 4 Proving & Fixing centering and shuttering (Formwork),including strutting,proppete and removal of formwork foundation and plinth etc 5 Providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & P		89.49			
2 150mm) Providing and laying in position plain cement concret excluding cost of concreti and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded cru rock 20mm niminal size) 4 Proving & Fixing centering and shuttering (Formwork),including strutting,proppete and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & providing & Providing & Providing & Laying Random Rubble Masonry with hard stone in foundation & providing					
and shuttering- All work upto plinth level -1:3:6 (1 cement, 3 sand, 6 graded cru rock 20mm niminal size) Proving & Fixing centering and shuttering (Formwork),including strutting,proppete and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & provided Rubble	cu.m	7.17			
etc and removal of formwork foundation and plinth etc Providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing & Laying Random Rubble Masonry with hard stone in foundation & providing		13.17			
	ng sq.m	11.36			
111 V 11101 W 1111	inth cu.m	14.04			
6 Providing and laying dry earth bedding, including consolidating each deposited by watering, ramming and dressing.	yer cu.m	8.60			
Total for F					
Sub- Total for F (2XSub-total)					
Total (A+B+C+D+E+F)	Nu.				
Rebate	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-N1

Deposit works under Thimphu Dzongkhag

A MY Line (ACSR Bare conductor) 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 veclitudar from the stores to sites, digging of holes, rection of poles, laying and stringing of conductors, fittings and accessories, tosting, commissioning and any other associate works 1. 33kV line (ACSR bare conductor) with Galvanized Steel Tubular Pole 10 m a LV Line (ABC conductor) 1. Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 10 m a LV Line (ABC conductor) 1. Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling & German BT Tower a Substation Construction 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 vedicidar from the stores to sites, digizing of holes, erection of poles, supply of miscellaneous items such as an at & both, hug, etc., installation of Tensofrome, filtings and accessories, installation of GEE earthing slab, painting of poles, concerting of pole base, testing, commissioning and any other associate works a Three phase Transformer 110.415 kV - 25 kV - 3 kV	Item No.	Description	Unit	Quantity	Rate (Nu.)	Amount (Nu.)
Detailed route survey, clearing of jungle-bushes, felling of frees including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and veclicular from the stores to sites, digging of holes, exercison 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 Steet Pubular Pole 10 m 8 Rabbit conductor (2 phase 2 wire) 8 Rabbit conductor (2 phase 2 wire) 1.2 Low Voltage Line (ABC) with Galvanized Steet Tubular Pole 7.5 M - Tachilling & Cierva BT Tower 1.2 Low Voltage Line (ABC) with Galvanized Steet Tubular Pole 7.5 M - Tachilling & Cierva BT Tower 1.2 Low Voltage Line (ABC) with Galvanized Steet Tubular Pole 7.5 M - Tachilling & Cierva BT Tower 1.3 Substation Construction 1.4 Denaled rous survey, clearing of jungle-bushes, felling of roes including cutting of trunks, branches & removing the trees (especially blocking of foot path & roads), transportation of materials both head loading and veclorical from the stores to sites, digging of holes, erection of poles, supply of miscellaneous items such as nut & boli, lug, etc., installation of GEE carthing slab, painting of poles, concreting of pole base, testing, commissioning and any other associate works 1.4 Three phase Transformer 110.415 kV - 25 kVA 1.5 Sub-Total for 1 1.6 Power supply to Integrated Waste Management Facility (NEC) at Memelakha under Chana (George, Thimpha Dzoaghking 2. Medium Voltage Lines and Low Voltage Lines (0H) 2. 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 vechicular from stores to attex, and the conductor of materials both head loading and vechicular from stores to attex, and the conductor of materials both head loading and vechicular from stores to sites	I	Power Supply extension to Barshong BTS under Naro Gewog	Omt	Quantity	Kate (Nu.)	Amount (Nu.)
trunks, branches & removing the trees (especially blocking of foot path & roads), targototion of materials both head loading and veckicular from the stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associates works 1.1 33kV lines (ACSR bure conductor) with Galvanized Steel Tubular Pole 10 m Rabbit conductor (2 phase 2 wire) Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashiling & Gerwa BT Tower C Substation Construction Detailed route survey, clearing of junglo-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 veckicular from the stores to sites, diagging of holes, cerection of poles, supply of miscellaneous items such as nut & bott, lags, etc., installation of transformer, fittings and accessories, installation of CEE eurthing slab, painting of poles, concreting of pole base, testing, commissioning and any other associate works Three phase Transformer 110/415 kV - 25 kVA No 1.00 Sub-1otal for 1 Power supply to Integrated Waste Management Facility (NEC) at Memelakha under Chang Gewog, Thimphu Drongkhag Medium Voltage Lines and Low Voltage Lines (OIY) 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 wetchicular from stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, IIV ABC calcaring 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 wetchicular from stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, IIV ABC calcaring of ju	A	MV Line (ACSR Bare conductor)				
transportation of materials both head loading and vechicular from the stores to sites, diuging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, testing, commissioning and any other associate works B LV Line (ABC work) with Galvanized Steel Tubular Pole 10 m B LV Line (ABC conductor) Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 7.5 M - Tashling & Gerwa BT Tower Gerwa BT Tower For 4C; 95 Sq. mm Km 0.04 C Substation Construction 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 vechicular from the stores to sites, digging of holes, erection of poles, supply of miscellaneous items such as mut & bolt, lugs, etc., installation of transformer, fittings and accessories, installation of GEE earthing slah, 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 Three phase Transformer 11:0.415 kV - 25 kVA No 1.00 Power supply to Integrated Waste Management Facility (NEC) at Memelakha under Chang Gewog, Thimphu Dzongkhag Medium Voltage Lines and Low Voltage Lines (DH) 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 vechicular from stores to sites, diaging of holes, erection of poles baying and stringing of conductors, littings and accessories, IV ABC colle termination kit jointings, supply of miscellaneous items such as not & bolt, lugs, etc., modification of fittings like drilling, welding, etc., testing, commissioning and any other associated works. 1.1 11kV line (RV ABC conductor) with Gi Steel Tubular Poles 10 M Detail route survey, clearing of jungle/bushes along the RoW, rivers, footpath and roads etc., transportati		Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of				
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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 vechicular from stores to sites, digging of holes, erection of poles, laying and stringing of conductors, fittings and accessories, IV ABC cable termination kit jointings, supply of miscellaneous items such as mut & 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 Detail route survey, clearing of jungle/bushes along the RoW, rivers, footpath and roads etc., transportation (both headloading and vehicular) from stores to sites, or add/drain/trach 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 all respect 1.1 Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect 1.1 Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect 1.1 Low Voltage Line (ABC conductor) 2.1 Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 10 M For 4C, 95 Sq. mm Km 1.50 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.						
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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			KM	1.50		
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			IXIVI	1.50		
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						
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1.1		· · · · · · · · · · · · · · · · · · ·				
1.2 Termination of indoor/outdoor termination kit (heat shrink) and other accessories to complete the work in all respect a	1.1		Maria	250.00		
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 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.			witrs.	250.00		
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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 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		Set	10.00		
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.	В	LV Line (ABC conductor)				
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.	2.1	Low Voltage Line (ABC) with Galvanized Steel Tubular Pole 10 M				
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	For 4C, 95 Sq. mm	Km	1.50		
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.		Detail route survey, clearing of jungle/bushes along the RoW, rivers, footnath and roads				
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.						
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.						
such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.	2.2	reinstatement wherever necessary, laying of cable including HDPE/Hume pipe of				
a 1.1kV grade 4 core x 400 so mm Mtrs 150 00		such as nut & bolt, lugs, etc., to complete the work in full as per the approved drawings.				
2.21.7 B. 2.20.7 Fore A 100 Square 150.00	a	1.1kV grade, 4 core x 400 sq.mm	Mtrs.	150.00		

С	Substation Construction	ı			
	Detailed route survey, clearing of jungle/bushes, felling of trees including cutting of				
	trunks, branches & removing the trees (especially blocking of foot path & roads),				
1.2	transportation of materials both head loading and vechicular from the stores to sites,				
1.3	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.				
	Excavation in foundation tranches or drains not exceeding 1.5m in width or area				
2.1	10sq.m on plan, including dressing & ramming, disposal of surplus soil with in 50m	cu.m	7.08		
	lead & 1.5m lift-Hard soil				
2.2	Fillingoftrenches, sides of foundation setc. in layers < 200 mmusing selected excavated earth,		0.06		
2.2	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		
	Providing and laying in position plain cement concrete excluding the cost of centering				
2.4	and shuttering - All work upto plinth level. 1:3:6 (1 cement : 3 sand : 6 graded crushed	cu.m	0.56		
	rock 20 mm nominal size)				
	Providing&layinginpositionreinforcedcementconcreteexcludingthecostofcentering, shut				
2.5	teringandreinforcement-allworkuptoplinth level	cu.m	1.56		
	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth				
2.6	in CM 1:5	cu.m	4.22		
	Providing & fixing centering and shuttering (formwork), including strutting, propping				
2.7	etc. and removal of formwork	sq.m	3.88		
	Providing&fixingThermo-				
2.8	MechanicallyTreatedreinforcementbar(YieldStrength500MPa)forR.C.Cworkincluding	Kg	68.06		
2.0	cutting, bending, binding and placing in position complete	ING	00.00		
	Steel work welded, in built up sections, trusses, frame-works including cutting,				
2.9	hoisting, fixing and appl. priming coat of red lead paint	kg	46.28		
2.10			10.20		
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. Excavationinfoundationtrenchesordrainsnotexceeding1.5minwidthorarea10sq.monplan				
2.1		au m	12.16		
2.1	includingdressing&ramming,disposal of surplus soil within 50m lead & 1.5m lift-All types of Soil	cu.m	12.10		
	Providing & laying cement concrete 150mm thick (1:4:8), 40 mm agg., excluding the				
2.2	cost of centering & shuttering -150mm thick	cu.m	3.24		
	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In		44.40		
2.3	CM 1:5	cu.m	11.12		
2.4	Providing & laying cement concrete 100mm thick (1:3:6), 20 mm agg., excluding the	au m	2.44		
4.4	cost of centering & shuttering	cu.m	2.44		
2.5	Providing and fixing centering and shuttering (form work), including strutting,	sq.m	19.98		
2.3	propping, etc and removal of formwork.	54.111	17.70		
	Providing & fixing G.I chain-link mesh including fixing of post or struts, G.I staples		العددو		
2.6	(excluding the cost of posts/struts, earthwork,	sq.m	144.00		
-	concrete etc.) - 3.15mm (8 SWG)x50mm				
2.7	steel work in welded section including cutting, hoisting, fixing and applying primary	Kg	801.92		
2.7	coat of red lead paint/bitumen coating In flats, Tees, angles and channels.	I rrg	001.72		
2.8	Providing & fixing bolts of various sizes including nuts & washers	Kg	14.80		
	Providing & fixing G.I barbed Wire Netting including fixing of post or struts, G.I staples,	8	11.00		
2.0	coal taring in case of ballies complete (posts/struts, earthwork, concrete paid		200.00		
2.9	separately) - 2.5mm , (12 SWG), 4 barbs form by twisting two point wires, each two	m	m 320.00	320.00	
	turns, pitch of barbs 100mm				
2.10	Substation gate fabricated out of M.S angle section 4m wide, 2m high with 2 leafs opening	No	2.00		
2.10	with all locking arragement as per BPC standard.	110	2.00		

F	Construction of RMU foundation					
	Earthwork in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.m on					
1	the plan, including disposal of excavated earth within 50m lead and 1.5m lift &	cu.m	3.91			
	disposed of soil to be neatly dressed-All types of soil					
2	Filling of trenches, sides of foundations etc. in layers <200mm using selected	cu.m	2.78			
	excavated earth, ramming etc. within lead 50 m & lift 1.5m	Cu.III	2.76			
	Providing & laying in position reinforced cement concrete excluding the cost of					
3	centering, shuttering and reinforcement - all	cu.m	1.30			
3	work upto plinth level - all work upto plinth level in 1:1.5:3 (1 cement : 1.5 sand : 3	cu.iii	.11 1.30			
	graded crushed rock 20 mm nominal size)					
	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength					
4	500 MPa) for R.C.C work, including cutting, bending, binding and placing in position	cu.m	m 29.68			
	completely.					
5	Providing & fixing centering and shuttering (formwork), including strutting, propping	sq.m	13.52			
	etc. and removal of formwork - Foundation and plinth etc.	Sq.III	13.32			
	Providing and laying in position plain cement concrete excluding the cost of centering					
6	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	kg	66.12			
/	priming coat of red lead paint	kg	00.12			
	Sub-Total for II					
Total Am	ount					
Rebate						
In words:	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.