

BILL OF QUANTITIES  
A. 220 KVA GENSET

	Item description	Quantity	Unit
Item I	Mobilization	1.00	lot
Item II	Site Preparation	1.00	lot
Item III	Excavation	1.00	lot
Item IV	Reinforcing Steel Bar	435.67	kg
Item V	Concreting for Genset Housing(class"A")	18.50	cu. m.
Item VI	Concreting for Pathway (class"A")	82.00	lm
Item VII	Electrical Steel Posts	6.00	post
	- rigid steel round bar, 5/8" diameter, 6m	2.00	pc
	- spool insulators (ANSI 53-2)	24.00	pc
	- 4" dia.sch 40 G.I pipe, 6m	6.00	pc
	- 10mm steel bar		pc
	- 12mm steel bar		pc
	- welding rod		kg
	- cement		bag
	- Gravel		cu. m.
	- R.sand		cu. m.
Item VIII	Installation of Power cables, Generator and Electrical Accessories	1.00	lot
	- Elect. Copper Wire, 200 mm <sup>2</sup> , THHN/THWN, Cable Tray(CT) Rated, Stranded, Black ( <i>please refer to Section VII Technical Specifications</i> )	560.00	m
	- Elect. Wire, 50mm <sup>2</sup> , THWN, Stranded, Copper, green	220.00	m
	- Manual transfer Switch, 225 A, 220-240 V, with NEMA 3R Enclosure, 3 phase, 60 Hz, solenoid type	1.00	set
	- Main breaker switch, with NEMA 3R Enclosure 500AT/500AF, 3P,22 kaic, 220/240 V	1.00	set
	- Manual transfer Switch, 400 A, 220-240 V, with NEMA 3R Enclosure, 3 phase 60 Hz, solenoid type	1.00	set
	- Terminal lugs, 2 hole, crimp type, Copper, for 200mm <sup>2</sup>	18.00	pc
	- Splice lugs for copper, to connect 250mm <sup>2</sup> and 200mm <sup>2</sup> cables	3.00	pc
	- Terminal lugs, 1 hole, crimp type, Copper, for 50mm <sup>2</sup>	3.00	pc
	- Ground rod, 3/4"x 8"long copper	2.00	pc
	- Ground clamp, 3/4"dia.copper	2.00	pc
	- Electrical tape, plastic ,big,black		pc
	- Rubber tape ,big		roll
	- 3 " dia. Rigid schedule 40 PVC pipe orange,		pc
	- others(elbows, PVC solvent, end cap, etc.)	1.00	lot
	- Brandnew 220 kVA Prime generator Set ( <i>please refer to Section VII Technical Specifications</i> )	1.00	set
Item IX	Steel Works (Roofing)	1.00	lot
Item X	Backfilling	1.00	lot
Item XI	Safety Provisions	1.00	lot

A. 45 KVA GENSET

	Item description	Quantity	Unit
Item I	Mobilization	1.00	lot
Item II	Site Preparation	1.00	lot
Item III	Excavation	1.00	lot
Item IV	Reinforcing Steel Bar	770.36	kg
Item V	Concreting (class"A")	7.04	cu. m.
Item VI	Genset and LVSG Foundation	3.38	cu. m.
Item VII	Electrical Works	1.00	lot
	- 4-branch panel board, w/ busbars, set	1.00	set
	- 40A Molded Ckt Breakers, plug in type	1.00	pc
	- 20A Molded Ckt Breakers, plug in type	1.00	pc
	- 15A Molded Ckt Breakers, plug in type	1.00	pc
	- 5.5mm <sup>2</sup> , THHN, stranded, copper wire	60.00	m
	- 3.5mm <sup>2</sup> , THHN, stranded, copper wire	50.00	m
	- 2-35W, 240V complete set w/ daylight flourescent lamp, electronics ballast, 4ft	2.00	set
	- 20A, 240V, duplex Convenience outlet, flat and round outlet w/ cover, set	2.00	set
	- Switch, 1-gang, 15A, 240V, set	1.00	set
	- Junction box, w/ cover, PVC, orange	3.00	pc
	- Utility Box, PVC, orange	3.00	pc
	- Flexible Conduit, 1/2" dia, orange	40.00	m
	- 0.5" dia. X 10ft, elect'l conduit, PVC pipe	3.00	pc
	- Electrical tape, plastic ,big,black		pc
	- rolls Rubber tape ,big		roll
Item VIII	Masonry Works (class"B") with plastering	66.20	sq. m.
Item IX	Electrical Steel Posts	2.00	post
	- 4" dia.sch 40 G.I pipe	2.00	pc
	- rigid steel round bar, 5/8" diameter, 6m	1.00	pc
	- spool insulators (ANSI 53-2)	8.00	pc
	- 10mm steel bar		pc
	- 12mm steel bar		pc
	- welding rod		kg
	- cement		bag
	- Gravel		cu. m.
	- R.sand		cu. m.
	- others(formworks,POWER provision,etc)	1.00	lot
Item X	Installation of Power cables, Generator and Electrical Accessories	1.00	lot
	- Elect. Wire, 50 mm <sup>2</sup> , THHN, Stranded, Copper, black	70.00	m
	- Elect. Wire, 22 mm <sup>2</sup> , THHN, Stranded, Copper, White or Green	30.00	m
	- Manual transfer Switch , 60 A, 440 - 480 V, with NEMA 3R Enclosure, 3 phase, 60 Hz , solenoid type	1.00	set
	- Terminal lugs,1 hole,crimp type, Copper, for 50mm <sup>2</sup>	6.00	pc
	- Ground rod,3/4"x 8"long	2.00	pc
	- Ground clamp, 3/4"dia.copper	2.00	pc
	- Electrical tape, plastic ,big,black		pc
	- Rubber tape, big		roll
	- others (electrical provision, scaffolding, etc.)	1.00	lot

	- Brandnew 45 kVA Prime Generator set <i>(please refer to Section VII Technical Specifications)</i>	1.00	set
Item XI	Roof Framing Works (Steel Truss, Purlins, Fascia Board)	1.00	lot
Item XII	Roofing / Tinsmithry	38.30	sq. m.
Item XIII	Steel Doors	2.00	door
Item XIV	Carpentry Works (Ceiling)	35.30	sq. m.
Item XV	Painting (4 Coats)	167.00	sq. m.
Item XVI	Backfilling	1.00	lot
Item XVII	Safety Provisions	1.00	lot

**\*Note: Fill up all other blank spaces for the needed quantities.**