

Tender for

**SUPPLY, INSTALLATION, TESTING & COMMISSIONING
AND LIASONING ACTIVITY OF DG SETS
AND ITS ALLIED ELECTRICAL WORKS
FOR STAFF QUARTERS, TYPE II, IV AND V,
AT JIPMER, PUDUCHERRY**

Volume- IV

BILL OF QUANTITIES

Tender No: HLL/IDD/CHN/18-19/009
Dated: 22nd August 2018



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Supply, Installation, Testing ,Commissioning and liasoning activity of DG sets and its allied electrical works for Staff Quarters, Type II, IV and V , JIPMER campus, Puducherry.

S.No	Description of Item	Qty	Unit	Rate	Amount in Figures	Amount in words
	PART - 1 TYPE 2 AND 4 Quarters					
1	Supply of 50 KVA Diesel Generator set comprising of Kirloskar make model 4R1040TAG1 Water cooled diesel engine developing 102BHP @ 1500RPM coupled to Kirloskar make 3ph, 415V, 50Hz alternator complete with standard control panel, fuel tank, battery with leads, Residential Silencer and Acoustic Enclosure Conforming to CPCB Norms.	2	Nos			
2a	Supply and erection of 160 A ATS fixed in a powder coated encloure made up of 2 mm CRCA sheet outdoor type weather proof type with supports	2	Nos			
2b	DG Auto start Panel - Supply and Erection of Auto changeover (EB / DG) Panel made up of 16 SWG C.R. sheet Coated with siemens grey colour RAL 7032 powder coating with all its panel necessary locking accessories including control wiring with muli core armoured cables as per the drawing Specifications. (500H X 350W X 300D X 1.6mm thk.)- Panel consisting of 1) MCB, Lamp, Contactor, LVM - L&T 2) Timer - Selec 3) Selector Switch - Salzer	2	Nos			
3	LT CABLE - Supplying and Laying of PVC insulated and PVC Sheathed/XLPE Power Cable of 1.1Kv grade of following size direct in ground Including excavation, sand cushioning, Protective covering and refilling the trench,with necessary clamps, cable ties, fasteners, etc					
a	3.5C x 95 Sq.mm Al.Ar. Cable	200	mtrs			
b	4 c x 2.5 sq.mm cu. Arm.cable	200	mtrs			

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S.No	Description of Item	Qty	Unit	Rate	Amount in Figures	Amount in words
4	TERMINATIONS					
	Supply & end termination of following AL armoured power cables with necessary double compression brass glands, AL terminal sockets, insulation tapes, fasteners, earthing clips & connecting the clip to main earth bus with suitable bare copper wire complete accessories as required					
a	3.5C x 95 Sq.mm Al.Ar. Cable	12	Each			
b	4 c x 2.5 sq.mm cu. Arm.cable	12	Each			
5	DG FOUNDATION Charges for Providing concreting platform for installation of 50 KVA DG Set .Construct with PCC in base for the hieght of 200mm and 200mm Brick wall all around the prepery of the DG plinth with plastering. Soil and stone filling inside the brick wall and ramming it for setteling. Above this min. 200mm 1:2:4 RCC to be constructed .	2	Nos			
6	DG STACKING					
a	Initial Charging of Batteries	2	Nos			
b	Erection of Residential Silencers	2	Nos			
c	Supply and Erection of 6 " Dia M.S. B-Class Pipe with all necessary bends, flanges and reducers	60	Mtrs			
d	Thermal Insulation for Residential Silencers	2	Nos			
e	Thermal Cladding for 6" Dia Piping with 24G Aluminium Sheets.	60	Mtrs			
f	Supply and Laying of 25 mm x 3 mm Copper Flat for Lightning Arrestor with supports	80	Mtrs			

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S.No	Description of Item	Qty	Unit	Rate	Amount in Figures	Amount in words
g	Supply and Installation of Spike Lightening Arrestor (Conventional Type)	2	Nos			
h	Supply and Installation of MS prefabricated steel structure in typical bolt nut arrangement for 6.0M High chimney stack for 600 and 285 kVA DG set Exhaust pipe with platforms with guarded ladder arrangement for climbing from ground level to top level. foundation bolts as per design to be free issued to civil contractor for embedding in RCC. . the structure shall have necessary 25 x6 mm copper earth strip laid in two runs from top to bottom.	4000	Kgs			
7	EARTHING					
a	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	4	Each			
b	Supply and erection of Earthing with Copper earth plate 600mm x 600mm x 3mm thick including accessories and providing masonry enclosures with RCC cover arrangement and watering pipe of 2.4.5mtrs long etc., with charcoal or coke & complete as required.	4	Each			
c	Supply and Fixing of 25x6 copper flat	140	mtrs			
d	Supply and Fixing of 40x6 copper flat	80	mtrs			
8	Charges for earth excavation for laying the LT cable in depth of 700 mm including brick and sand filing on top of cable.	100	RM			
	PART - II TYPE 5 Quarters					
1	Supply of 125 KVA Diesel Generator set comprising of Kirloskar make model 4R1040TAG1 Water cooled diesel engine developing 102BHP @ 1500RPM coupled to Kirloskar make 3ph, 415V, 50Hz alternator complete with standard control panel, fuel tank, battery with leads, Residential Silencer and Acoustic Enclosure Conforming to CPCB Norms.	1	Nos			
2a	Supply and erection of 400 A ATS fixed in a powder coated encloure made up of 2 mm CRCA sheet outdoor type weather proof type with supports	1	Nos			

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S.No	Description of Item	Qty	Unit	Rate	Amount in Figures	Amount in words
2b	DG Auto start Panel Supply and Erection of Auto changeover (EB / DG) Panel made up of 16 SWG C.R. sheet Coated with siemens grey colour RAL 7032 powder coating with all its panel necessary locking accessories including control wiring with muli core armoured cables as per the drawing Specifications. (500H X 350W X 300D X 1.6mm thk.)- Panel consisting of 1) MCB, Lamp, Contactor, LVM - L&T 2) Timer - Selec 3) Selector Switch - Salzer	1	Nos			
3	LT CABLE - Supplying and Laying of PVC insulated and PVC Sheathed/XLPE Power Cable of 1.1Kv grade of following size direct in ground Including excavation, sand cushioning, Protective covering and refilling the trench,with necessary clamps, cable ties, fasteners, etc					
a	3.5C x 185 Sq.mm Al.Ar. Cable	300	mtrs			
b	4 c x 2.5 sq.mm cu. Arm.cable	100	mtrs			
4	TERMINATIONS					
	Supply & end termination of following AL armoured power cables with necessary double compression brass glands, AL terminal sockets, insulation tapes, fasteners, earthing clips & connecting the clip to main earth bus with suitable bare copper wire complete accessories as required					
a	3.5C x 185 Sq.mm Al.Ar. Cable	6	Each			
b	4 c x 2.5 sq.mm cu. Arm.cable	6	Each			
5	DG FOUNDATION Charges for Providing concreting platform for installation of 125 KVA DG Set .Construct with PCC in base for the hieght of 200mm and 200mm Brick wall all around the prepery of the DG plinth with plastering. Soil and stone filling inside the brick wall and ramming it for setteling. Above this min. 200mm 1:2:4 RCC to be constructed .	1	Nos			
6	DG STACKING					
a	Initial Charging of Batteries	1	Nos			

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S.No	Description of Item	Qty	Unit	Rate	Amount in Figures	Amount in words
b	Erection of Residential Silencers	1	Nos			
c	Supply and Erection of 10 " Dia M.S. B-Class Pipe with all necessary bends, flanges and reducers	30	Mtrs			
d	Thermal Insulation for Residential Silencers	1	Nos			
e	Thermal Cladding for 10" Dia Piping with 24G Aluminium Sheets.	30	Mtrs			
f	Supply and Laying of 25 mm x 3 mm Copper Flat for Lightning Arrestor with supports	40	Mtrs			
g	Supply and Installation of Spike Lightening Arrestor (Conventional Type)	1	Nos			
h	Supply and Installation of MS prefabricated steel structure in typical bolt nut arrangement for 6.0M High chimney stack for 600 and 285 kVA DG set Exhaust pipe with platforms with guarded ladder arrangement for climbing from ground level to top level. foundation bolts as per design to be free issued to civil contractor for embedding in RCC. . the structure shall have necessary 25 x6 mm copper earth strip laid in two runs from top to bottom.	2000	Kgs			
7	EARTHING					
a	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2	Each			

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S.No	Description of Item	Qty	Unit	Rate	Amount in Figures	Amount in words
b	Supply and erection of Earthing with Copper earth plate 600mm x 600mm x 3mm thick including accessories and providing masonary enclosures with RCC cover arrangement and watering pipe of 2.4.5mtrs long etc., with charcoal or coke & complete as required.	2	Each			
c	Supply and Fixing of 25x6 copper flat	70	mtrs			
d	Supply and Fixing of 40x6 copper flat	40	mtrs			
8	Charges for earth excavtion for laying the LT cable in depth of 700 mm including brick and sand filing on top of cable.	50	RM			
	PART - III CEA approval and PED approval					
1	ELECTRICAL INSPECTOR APPROVAL					
a	Towards Preparation of Drawings, Co-ordinate with CEA for liaisoning activit,Arranging inspection, Getting DR , submitting RR , Getting CEA approval, Co rdination with PED to get inprinciple and principle approval for DG sets.	1	Job			
	Total amount excluding GST:					
	GST 12%:					
	Amount including GST:					

**END OF VOLUME -
IV**