

**NATIONAL GAMES SECRETARIAT**  
**SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 200KVA DG SET AND ASSOCIATED WORKS AT SQUASH COURT, CHANDRASEKHAR NAIR STADIUM,**  
**SPECIFICATION AND SCHEDULE OF QUANTITIES**

Sl.No	Description of Items	Unit	Qty	Rate (To be quoted by the tenderer)		Total Amount (Rs)	Specify the make of Components
				in Figures	in words		
<b>1.0</b>	<b>DG SET &amp; LT PANEL BOARDS</b>						
<b>1.1</b>	<p><b>DG SET</b>  Supply, installation, testing and commissioning of 1 No. 200 kVA, 415V, 3 phase, 1500 R.P.M, 0.8 PF(Continuous duty), water cooled, floor mounted Diesel Generator set with acoustic enclosure (outdoor duty) and all accessories including standard control panel with suitable MCCB, CTs and transducers for all metering and protection, Antivibration mountings, exhaust silencer and exhaust pipe(min height 1.8m from floor level) along with Acoustic Enclosure(sound pressure level as per ISO standards), electric starter, batteries &amp; battery charger, fuel tank with level indicator, radiator, necessary control wiring with control cables, first fill of lubricating oil, and Diesel for testing and commissioning, earthing as per standards and all accessories as required complete with necessary civil work such as grouting, chipping, finishing etc. as required complete without foundation. The work should be as per Electrical Inspectorate/ Pollution control board standards.</p>	no	1.00				
<b>1.2</b>	<p><b>DG PANEL</b>  Supply, installation, testing and commissioning of totally enclosed free standing floor mounting dust and vermin proof indoor cubicle type Switch Board (DG panel) suitable for 415 V, 3 phase, 50 HZ supply, fabricated of 14 SWG CRCA sheet steel Powder coated complete with busbars having 400A rating, indicating lamps (LED type) with 2A control MCBs, CT's, connections &amp; interconnections with suitable size of copper leads/solid aluminium strips/rod and having following incoming and outgoing MCCBs as per the drawing and specifications(Refer particular specification and Drawing).</p> <p><b>Incomer</b></p>						

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	320A, FP, 35kA, thermomagnetic release having adjustable over load and short circuit -1 no.						
	400A TPN busbar chamber with Aluminium busbar RYB Indicating lamps LED type -3Nos. Digital voltmeter- 1 No. Digital Ammeter-1 No. Cast resin CT's 400/5A,15VA CL:1 -3 Nos <b>Outgoing</b> 160A, FP, 25kA, thermomagnetic release having adjustable over load and short circuit -1 no. 100A, FP, 25kA, thermomagnetic release having adjustable over load and short circuit -2 no.s 63A, FP, 25kA, thermomagnetic release having adjustable over load and short circuit -6 no.s	no	1.00				
<b>1.3</b>	Supply, installation, testing and commissioning of 160 A four pole on load change over switch in sheet steel enclosure with all the necessary accessories etc. as required	no	1.00				
	<b>Sub Total</b>						
<b>2.0</b>	<b>CABLES AND CABLING</b>						
2.1	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium /copper conductor cable conforming to IS 7098 (Part 1) amended upto date. 3.5C 120 Sq.mm Al	m	130.00				
2.2	Supplying and making end termination with brass compression gland and aluminium/Copper lugs for following size of XLPE insulated PVC sheathed aluminium/copper conductor cable of 1.1 kV grade as required. 3.5C 120 Sq.mm Al	no	6.00				

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				in Figures	in words		
2.3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.						
2.4	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp) Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size on cable tray as required. Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	m	15.00				
2.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. Above 95 sq. mm and upto 185 sq. mm	m	90.00				
2.6	Laying of one number PVC insulated and PVC sheathed armoured power cable of 1.1kV grade fo the following sizes in the existing RCC/HUME/STONEWARE/GI/DWC pipe as required Above 25 Sq.mm upto 120 Sq.mm	m	5.00				
2.7	Laying of one number PVC insualted and PVC sheathed armoured power cable of 1.1KV grade of the following sizes in the existing masonry open duct as required. Above 95 sq. mm and upto 185 sq. mm	m	5.00				
2.8	Supply, fabricating and installing MS items such as Tees/ angles/ channels etc. on floor/ ceiling/ wall including necessary civil work such as grouting, finishing etc. and painting with two coats of primer and two coats of enamel paint as required	kg	100.00				
	<b>Sub Total</b>						
<b>3.0</b>	<b>EARTHING AND SAFETY EQUIPMENTS</b>						

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3.1	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	no	5.00				
3.2	Supplying and laying following GI or copper strip / wire at 0.6m below ground level including excavation and refilling or on surface with mounting saddles for conductor earth electrode including welding etc as required. 25x3 mm Cu strip tinned at the points of contacts	m	80.00				
<b>GRAND TOTAL</b>							

Tenderer

Chief Engineer

**Note :**

- 1.0 Rate to be quoted by the tenderer both in figures and words and the total amount of work to be arrived.
- 2.0 The contractor's rate must be firm and including the cost of transportation of material to the site, all taxes such as Sales Tax, Service tax, Excise and octroi, etc. and the fixing or placing in position for which the item of work is intended to be operated. The rates quoted by the contractor shall be firm throughout the contract period and there shall be no upward revision of the rates quoted by the contractor for any reasons whatsoever. It should be clearly understood that any claims for extra Sales Tax, Excise duty, construction tax or any additional tax, etc., shall not be entertained in any case whatsoever once the tenders are opened.
- 3.0 TDS, KVAT and KSCWWFB contributions will be recovered from the bills at the prevailing rates.