

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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NIT-29055 **CORRIGENDUM-1**

The due date for the tender with reference to **NIT-29055** (Tender Notice No. M&S: 02/2016-17)

Hence the following text in Open Tender Document shall be read as follows.

SL NO	PART-2	EARLIER TEXT	MODIFIED TEXT
1	2 TO 5	20) Scope of work: As in Sl. No 10 but in the LOW BAYS -NON CRANABLE AREA: Area wise break-up: 1).Bldg.-1/1a-1b & 1-12 Bays = 20 NO light fittings on surrounding = wall and entry opening of B-1= 2).Bldg.-1/DS & PS = 100 NO 3).Bldg.-6 = 200 NO 4).Bldg.-50 = 55 NO 5).Gas Plant = 25 NO 6).HRDC = 80 NO Total available = 480 NO app.80% of the total quantity taken for execution.= 384 NO	REPEATED TEXT of Item no 20 in part-2, Price bid. It has to be omitted in pages-2 to 5 Revised Price Bid Part-II is attached for quoting

All other terms & conditions as published in NIT-29055 remains unaltered.

PART- 2 / JOB DISCRPTIONS					
NAME OF WORK: AMC for Maintenance of Roof lights in various buildings at BHEL premises, Trichy.					
NAME OF THE COMPANY/ FIRM:					
S.No:	WORK DISCRPTIONS	UOM	APPROX. QTY	RATE - IN FIGURES	VALUE - IN FIGURES
10	<p>Checking, identifying the faults in the Roof light fittings of 70/150/250/400/500 Watts (HPMV/ HPSV/ Metal Halide) and rectifying the faults by replacement of one (or) more of the followings: Lamp, choke, condenser, lamp holder, terminal block, inter Connection wiring from DL-MCB to ceiling rose, terminal Strip, any other associated electrical controlling devices to fittings etc. After maintenance, cleaning the light fittings free from dusts and ensuring the fixing clamps, main hook & safety chains (both for fitting and gasket) etc. for it's healthiness by tightening the fixing bolts and nuts.</p> <p>Note: 1). If the safety chains are damaged / missing, the same have to be replaced wherever necessary. Safety chains shall be under the scope of BHEL. Associated tools and accessories shall be brought by the contractor. 2). The contractor shall maintain roof-light maintenance log sheet including the activities carried out, bay locations, date of checking, roof-light faults attended, safety chains replaced/checked etc duly attested by the supervisor-in-charge.</p> <p>LOW BAY CRANEABLE AREA:</p> <p>Area wise break-up: 1).Bldg.-1/1-12Bay = 700 NO 2).Bldg.-1/DS&PS = 350 NO 3).Bldg.-5 = 150 NO 4).Bldg.-6 = 600 NO 5).Bldg.-50 = 1960 NO 6).Bldg.-53 = 27 NO 7).Gas plant = 100 NO Total available = 3887 NO. app.60% of the total quantity taken for execution = 2332 NO</p>	NO	2332		
20	<p>Scope of work: As in Sl. No 10 but in the LOW BAYS -NON CRANABLE AREA:</p> <p>Area wise break-up: 1).Bldg.-1/1a-1b & 1-12 Bays = 20 NO light fittings on surrounding = wall and entry opening of B-1= 2).Bldg.-1/DS & PS = 100 NO 3).Bldg.-6 = 200 NO 4).Bldg.-50 = 55 NO 5).Gas Plant = 25 NO 6).HRDC = 80 NO Total available = 480 NO app.80% of the total quantity taken for execution. = 384 NO</p>	NO	384		
30	<p>Scope of work: As in Sl. No 10 but in the HIGH - BAYS/ CRANABLE AREA:</p> <p>Area wise break-up: 1).Bldg.-1/1a-1b = 170 NO 2).Bldg.-1/DS & PS = 625 NO 3).Bldg.-5 = 60 NO 4).Bldg.-6 = 200 NO 5).Bldg.-50 = 225 NO 6).Bldg.-107/Unit-II = 994 NO 7).Bldg.-108/Unit-II = 994 NO 8).Bldg.-117/Unit-II = 300 NO 9).Bldg 123/Unit-II = 100 NO Total available = 3668 NO app.80% of the total quantity taken for execution = 2934 NO</p>	NO	2934		

Contractor signature/seal

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40	<p>Checking, identifying the faults in Box/ Industrial type fluorescent tube light fittings (28W/40W/65W (SINGLE TYPE) Fluorescent Lamp Tube Light Fittings) in the ceiling/ roof / wall and rectifying the faults by replacement of one (or) more of the following: Lamps, Chokes, Condensers, Lamp holders, terminal Blocks, inter connecting wiring from DL MCB to Ceiling Rose / Terminal Stips to fitting/ any other associated electrical controlling devices etc.</p> <p>Area wise break-up: 1).Bldg.-1/1a-1b & 1-12 Bay = 165 NO 2).Bldg.-1/DS & PS = 200 NO 3).Bldg.-5 = 70 NO 4).Bldg.-6 = 160 NO 5).Bldg.-50 = 210 NO 6).Bldg.-53 = 10 NO 7).HRDC. = 400 NO Total available = 1215 NO app.60% of the total quantity taken for execution = 729 NO</p>	NO	729		
50	<p>Scope of work: As in Sl. No.40 but in the TWIN TYPE 28W/40W/65W Fluorescent Lamp Tube Light Fittings.</p> <p>Area wise break-up: 1).Bldg.-1/1a-1b & 1-12 Bay = 478 NO 2).Bldg.-1/DS & PS = 400 NO 3).Bldg.-5 = 70 NO 4).Bldg.-6 = 600 NO 5).Bldg.-50 = 310 NO 6).Bldg.-53 = 15 NO 7).HRDC. = 250 NO Total available = 2123 NO app.60% of the total quantity taken for execution = 1274 NO</p>	NO	1274		
60	<p>Scope of work: As in Sl. No.40 but in the Incandescent lamp fittings of various ratings(up to 1000 Watts).</p> <p>Area wise break-up: Bldg.-1/DS & PS = 50 NO Bldg.-6 = 15 NO HRDC = 30 NO Total available = 95 NO app.60% of the total quantity taken for execution = 57 NO</p>	NO	57		
70	<p>Checking, identifying the faults in the Ceiling Fans (1200/1400 mm sweep) and rectifying of the faults by removing the fan from the ceiling and replacement of one or more of the following components: ball bearing/ bush, capacitor, split pin/ cotter pin, regulator,etc. Any wiring fault associated with the fan also should be corrected. After maintenance, cleaning the fans free from dusts and ensuring the fixing hooks, down rods, split pin/cotter pin, etc. for it's healthiness by tightening the chuck nuts fixing bolts and nuts, etc.</p> <p>Area wise break-up: 1).Bldg.-1/1a-1b & 1-12 Bay = 293 NO 2).Bldg.-1/DS & PS = 200 NO 3).Bldg.-5 = 50 NO 4).Bldg.-6 = 250 NO 5).Bldg.-50 = 260 NO 6).Bldg.-53. = 15 NO 7).HRDC = 400 NO Total available = 1468 NO app.60% of the total quantity taken for execution = 881 NO</p>	NO	881		

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80	<p>Checking, identifying the faults in the single phase/3-phase Exhaust fans and rectifying of the faults by replacement of one or more of the following components: ball bearing/ bush, capacitor, DOL starter/ MCB etc. Any wiring fault associated with the exhaust fan also should be corrected. After maintenance, cleaning the fans free from dusts and ensuring the fixing bolts, fan blade tightening nut etc., for it's healthiness by tightening the fixing bolts and nuts, etc.</p> <p>In case of winding failure, the motor should be removed from fixture and should be refixed after rewinding the motor.</p> <p>Note: Rewinding will be done by BHEL.</p> <p>Area wise break-up:</p> <p>1).Bldg.-1/1a-1b & 1-12 Bay = 45 NO. 2).Bldg.-1/DS & PS = 50 NO 3).Bldg.-5 = 25 NO 4).Bldg.-6 = 50 NO 5).Bldg.-50 = 35 NO 6).53-Building = 25 NO 7).HRDC = 15 NO Total available = 245 NO app.70% of the total quantity taken for execution = 172 NO</p>	NO	172		
90	<p>Removing and rewiring (2 runs in the roof light wiring points): Removing of the faulty/ damaged existing 1.5/ 2.5/ 4/ 6 sq.mm PVC insulated Alu/ Copper wires from 19mm/20mm dia PVC pipe and re wiring with new 1.5/2.5/ 4/ 6 sq.mm PVC insulated Alu/ Coppper wire in the existing PVC pipe for the wiring points in the roof light wiring points(Roof height: 10 Mtrs Apprx.).</p> <p>Note: The wire will be issued by BHEL at stores/ Site.</p> <p>Area wise break-up:</p> <p>1).Bldg.-1/1a-1b & 1-12 Bay = 1500 M 2).Bldg.-1/DS & PS = 3000 M 3).Bldg.-5 = 750 M 4).Bldg.-6 = 1200 M 5).Bldg.-50 = 1500 M 6).Bldg.-53 = 100 M 7).HRDC = 500 M 8).Unit-II = 600 M Total (approximate) = 9150 M app.40% of the total quantity taken for execution = 3660 NO</p>	M	3660		
100	<p>Removing and rewiring (2 runs in cabins/ rooms/ toilets/ annex building rooms): Removing of the faulty/ damaged existing 1.5/ 2.5/ 4/ 6 sq.mm PVC insulated Alu/ Copper wires from 19mm/20mm dia PVC pipe and re wiring with new 1.5/ 2.5/ 4/ 6 sq.mm PVC insulated Alu/ Coppper wire in the existing PVC pipe for the wiring points in cabins/ rooms/ annex building rooms.</p> <p>The wires will be issued by BHEL at stores/Site. The removed old/ damaged wires should be handed over to disposal stores.</p> <p>Area wise break-up:</p> <p>1).Bldg.-1/1a-1b & 1-12 Bay = 700 M. 2).Bldg.-1/DS & PS = 3000 M 3).Bldg.-5 = 750 M 4).Bldg.-6. = 800 M 5).Bldg.-50. = 1800 M 6).HRDC = 500 M Total (approximate) = 7550 M. app.40% of the total quantity taken for execution = 3020 NO</p>	M	3020		

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110	<p>Checking,identifying the faults in the Roof light fittings (65 Watts CFL-emergency lamps), rectification of the fault by replacing/ repairing of one or more of the the following components like Lamps,Chokes,Lamp holders,terminal blocks, interconnecting wiring from DL MCB to Ceiling rose/terminal strips,cleaing the complete fitting and checking & tightening of the safety chain with fixing bolts & nuts where ever required to ensure the safety of the fittings (Low Bays/ High bays).The parts for replacement shall be supplied by BHEL tore/Site at free of cost.The lamps/ fittings removed shall be tested for individual faults by the contractor in the presence of electrical supervisor. The faulty parts shall be replaced with new spares, tested for functionality and finally installed on the roofs by the contractor.In case of minor repairs/faults like loose connections,wiring faults etc the faulty parts may be serviced,tested for normal functioning and installed on the roofs by the contractor.</p> <p>Area wise break-up : 1).Bldg.107,108,117 Unit-II = 154 NO</p> <p>----- Total app. = 154 NO app.20% of the total quantity taken for execution = 31 NO</p>	NO	31		
120	<p>Checking, identifying the faults in Modular type fittings with 4x14W Fluorescent Lamp Tube Light in the ceiling/ roof / wall and rectifying the faults by replacement of one (or) more of the following: Lamps, ballast, terminal Blocks, inter connecting wiring from DL MCB to Ceiling Rose / Terminal Stips to fitting/ any other associated electrical controlling devices etc.</p> <p>Area wise break-up: 4).Bldg.-6 = 60 NO 5).Bldg-50 = 42 NO 6).HRDC = 25 NO Total available = 127 NO</p>	NO	127		
	<p>General Note: 01).The maintenance is required in Unit-1 & Unit-2. 02).Cables/wires,PVC conduit pipes,condensers, ball bearings,fluorescent lamps,chokes, starters, lamp holders,Metal Halide/HPMV/HPSV lamps, switches,3 pin sockets & earth wires only will be supplied by BHEL Store/Site at free of cost. 03).Materials collection and movements from the stores by the contractor's own arrangements. 04).EOT crane will be provided/spared free of cost for roof light maintenance where ever available.The contractor has to arrange their own facility(Ladder etc.) for gaining access to the fittings in the annex bldgs/high bays/low bays.Contractor has to arrange for personal protective equipments like safety belt, helmet, safety shoes etc. 05).Date wise Log sheet should be maintained for the works done, indicating Bay/Row references,total no of faulty fittings,no.of fittings rectified each day etc., endorsed/certified by Area Maintenance- in-charge. 06).Contractors are requested to strictly comply the work permit system while doing the works at height.The safe work permit has to be obtained as directed by the Electrical Engineer in-charge. 07).Prior permission should be obtained from M&S, Production and Safety Dept.Necessary safety precautions should be adhered strictly.</p>				

Contractor signature/seal

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	<p>08). Safety precautions have to be ensured by the Contractor depending on the work nature. Necessary work permit system and personal protective equipments (PPE) such as electrical resistance rubber gloves, helmet, spectacle goggles, safety shoes, safety belt/belt rope etc. as applicable to electrical works should be adhered while carrying out the work in the roof. Issuing of PPE to their employees are under contractor's scope.</p> <p>09). The contractor shall ensure removal of all accessories such as ladders, safety belts, tools, nuts, bolts etc from the top of the EOT crane after completion of each cycle of work.</p> <p>10). Licensed electrical persons/Skilled electricians should be engaged.</p> <p>11). The contractor should be available daily with supervisor at site.</p> <p>12). The quantity is only approximate and it may vary either higher or lower by 20%.</p> <p>13). Electrical and Electronic waste disposal :- (Igniter/Choke/cables/wires/lamp & fittings etc..)</p> <p>i). All the fused lamp spares/cables/wires are to be collected and segregated by the contractor in an area identified by the electrical supervisor-in-charge.</p> <p>ii). The above faulty items shall be collected and sent to stores/ disposal yard by the contractor at the end of each cycle of work.</p> <p>iii). A separate receipt form shall be obtained by the contractor from the disposal yard/stores indicating the quantity, item description, reference Work Order Number, duly attested by the stores/ disposal yard in charge</p> <p>14). Period of contract: One Year.</p>				
				TOTAL :	
				SERVICE TAX @ 14.000%	
				SWACHH BHARAT CESS	
				KRISHI KALYAN CESS	
				GRAND TOTAL :	

Contractor signature/seal

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