

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

(MAINTENANCE & SERVICES DEPARTMENT)

☎: (0431) 2575916/2575242 Fax: (0431) 2576805

e-mail: paul@bheltry.co.in



39-300  
ISO 9001

## NOTICE INVITING TENDER

01.	Name of work	<b>AMC FOR MAINTENANCE OF ROOF LIGHTS IN VARIOUS BUILDINGS AT BHEL PREMISES-TRICHY.</b>
02.	Enquiry Number:	9451500006/Dt:28.03.2015
03.	Estimated Cost:	₹ 15.03Lakhs.
04.	Earnest Money:	₹ 40,000.00
05.	Tender document cost:	₹ 750.00
06.	Completion Time (Period of Contract)	12 Months (From the date of issue of work order)
07.	Last date for submission of offer	10.00 Hrs on 22.04.2015
08.	Techno Commercial Offer opening date:	10.30 Hrs on 22.04.2015
09.	Price Bid Opening date:	Shall be intimated separately to Technically qualified bidders.
10.	Guarantee Period:	6 (six) Months from the date of actual completion of work and handing over to Bharat Heavy Electricals Limited.Trichy
11.	Area of Work	HPBP-Trichy, (Unit-I and Unit-II.)

The Tender documents can be down loaded from BHEL website/ Govt.website.  
([www.bhel.com](http://www.bhel.com) / [tenders.gov.in](http://tenders.gov.in))

Tender document consists of

A] Part-1:Tech. cum commercial offer -

Part-1A: General Instruction.to Tenderers-	02 pages,
Part-1B: General terms and conditions-	03 pages,
Part-1C: Special terms and conditions-	04 pages,
Part-1D: Qualification Criterion with annexure -	03 pages,
Part-1E: Job description-	03 pages.

Part-1 Sub Total 15 pages

B] Part-2: Price bid – 05 pages.

Part-2 Sub Total 05 pages

Total no. of pages: 20 pages.

ISSUING OFFICER

SM/ Planning  
Maintenance & Services

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## NOTICE INVITING TENDER

**Sub: AMC FOR MAINTENANCE OF ROOF LIGHTS IN VARIOUS BUILDINGS AT BHEL-  
PREMISES, TRICHY.**

**Ref: Enquiry No. 9451500006 / Dated: 28.03.2015.**

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Tender for above mentioned work should be submitted in a sealed cover consisting of three inner sealed covers. First cover shall contain EMD & Tender document cost, second cover shall contain Part-1: Technical cum commercial offer and third cover shall contain Part-2: Price bid. All superscripting the name of work, enquiry number and enquiry due date.

- 1) EMD cover shall contain requisite EMD & Tender document cost in the form of Demand Draft drawn in favour of 'BHEL, Tiruchirappalli. **EMD in any other form will not be accepted.** Tenderers who had already remitted one time EMD should furnish the details of cash receipt No./ date, on the top of EMD cover. Tender without EMD / one time EMD reference will be summarily rejected and Tech. cum commercial offer & price bid shall not be considered.
- 2) Tech. cum commercial offer cover shall contain all documents duly filled and signed by the tenderer in all the pages with documentary evidences for qualifying criteria such as experience, value of work executed in the similar nature of work etc. Any bid without proper documentary evidence for qualifying criteria shall not be considered for further evaluation.

Regd. Office: BHEL House, Siri Fort, New Delhi - 110 049

- 3) The price bid cover shall contain price bid document duly filled in and signed by the tenderer in all the pages. The tenderer has to quote most competitive rates for all the items given in the Bill of Quantities in price bid.

The completed qualification bid and price bid along with requisite **EMD of ₹40,000/-** for this work and tender document cost of **₹750/-** shall reach the office of the undersigned on or before **22-04-2015 at 10.00 Hrs.**

The Technical cum commercial offer will be opened on the same day at 10.30 hrs. In case of opening day falls on holiday or happened to be declared as a holiday the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to those bidders whose Tech cum commercial offer is accepted. You / Your authorized representative may participate in the tender opening.

Clarification if any, can be obtained from the undersigned.

Thanking you,

Yours faithfully,  
For Bharat Heavy Electricals Limited,

SM/ Planning  
Maintenance & Services

Encl:

- 1) Part-1: Technical cum commercial offer.
- 2) Part-2: Price bid.



**BHARAT HEAVY ELECTRICALS LIMITED  
HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI – 620 014  
M & S CONTRACTS (ELECTRICAL)**

**GENERAL INSTRUCTIONS TO TENDERER:**

01.	Sealed Tender enclosed for the work is hereby invited from contractor holding a valid Electrical contractor's license, issued by Tamilnadu Electrical Licensing Board and experienced in works of similar kind.
02.	Before tendering, the tenderers are advised to inspect the site of work and its environment and be well acquainted with the actual working and other relevant conditions, position of materials and labour. Tenderers are also requested to go through General -Terms and conditions and Special -Terms and conditions of Contract, drawings and specifications and all other documents which form part of the agreement to be entered into.
03.	Tender should be addressed to the Sr.DGM/M&S,2&4-Building,BHARAT HEAVY ELECTRICALS LIMITED, Tiruchirapalli- 620 014 . Full name , address of the Tenderer and the name of the work should be noted on the covers of EMD,Technical bid & Price bid with tender No & due date of opening.
04.	The validity of the offer submitted by the tenderer shall be for a period of "Six months" from the date of opening of the tender.
05.	All entries in the tender documents shall be made in one ink.Erasure and over-writing are not permitted. All cancellations and insertions should be duly signed by the Tenderer concerned.
06.	Tenderer should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents along with signature on each and every page of the tender document including corrigendum & the drawing attached there to while submitting their tender.
07.	Unit rates should be quoted in figures as well as in words with reference to each item and for all the items shown in the attached schedule. These rates shall be for the furnished work at site. Amount for each item and the totals page by page and also the grand total amount for the contract should also be filled in by the Tenderer.
08.	Rates for each item of the tender schedule should be quoted in Rupees and paise only, In case any difference in rates quoted to figures and in words, the lower of the rates will be taken as the tendered rate.
09.	Quantities shown in the attached schedule are only approximate and are subject to variation. The rate shall remain firm throughout the contract period. However executed work value shall remain within + 20% (plus Twenty percent) of work order value .
10.	In quoting the rates, the tenderer is advised to take into account all factors including any fluctuations in market rates. No claim will be entertained on this account after acceptance of the tender or during the currency of the contract.
11.	Rates quoted shall be inclusive of all royalties, taxes, duties & other taxes except Service tax. Service Taxes as applicable shall be shown extra in the offer. The Bharat Heavy Electricals Limited, Tiruchirapalli will not entertain any claim what so ever in this respect. The applicable Service Tax can be claimed from BHEL, along with monthly bill .  While claiming for Service tax, the contractor should produce copies of challans of previous Month/Quarter as proof of deposit of Service Tax, if applicable, along with a declaration that "The Service tax collected from BHEL has been remitted to Service Tax authorities.
12.	If a tenderer find discrepancies or omissions in the drawings or any of the tender documents and should there be doubts as to their meaning, he should at once address the authority inviting the tender for clarifications.Every endeavor is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall taken upon himself to provide for the risk or any error which may be subsequently discovered and shall make no subsequent claim on account thereof.
13.	In the event of tender being submitted by the firm, all pages of the tender must be signed legibly by each partner or member of the firm or in their absence, by the person holding the power of attorney on behalf of the firm concerned. In the latter case, a copy of the power of attorney duly attested by a Gazetted Officer must accompany the tender.

Contractor signature/seal

Accepting officer/BHEL



**BHARAT HEAVY ELECTRICALS LIMITED  
HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI – 620 014  
M & S CONTRACTS (ELECTRICAL)**

**GENERAL INSTRUCTIONS TO TENDERER:**

<b>14.</b>	The BHARAT HEAVY ELECTRICALS LIMITED, reserves the right to reject any or all the tenders received or accept any tender or part thereof without assigning any reason therefore. In the case of acceptance of the part of tender, time for completion may also be reduced to the extent considered appropriate by the accepting officer.
<b>15.</b>	Tenders not submitted in the prescribed forms are liable to be rejected.
<b>16.</b>	The Contractor who is not in the approved list of contractors of BHEL must submit the following documents along with their offers otherwise offers will be rejected. <b>01).</b> Copy of work order received from any large reputed firm of similar nature to establish that the tenderer is an independent contractor working on his own. The contractor shall furnish details like name of the contact person, mobile <b>02).</b> Copy of performance certificate from atleast 2 reputed large firms or govt. bodies for having executed similar works satisfactorily in the last two years. BHEL reserves the right to verify with original certificate. <b>03).</b> A certificate from a Bank regarding the tenderer's financial position. (Solvency) <b>04).</b> License details of the firm or the contractor.
<b>17.</b>	The tender should be accompanied by a list of contracts already held by the contractor at BHEL-Trichy at the time of submission of the tender and giving the following particulars: <b>a).</b> WO reference number and value of contract. <b>b).</b> The balance of work in value remaining to be done for the same.
<b>18.</b>	Tender may be sent by post or dropped in Tender box available at M&S,2&4-Building, BHARAT HEAVY ELECTRICALS LIMITED, Tiruchirapalli- 620 014. Tender submitted by Post should be sent by "Registered Post/Speed post. These should be posted well in advance with due allowance for any delay in postal delivery. Tender received after the due date of opening of tender shall be rejected.
<b>19.</b>	The Contractor's responsibility under this contract shall commence from the date of work order.
<b>20.</b>	If a tenderer expires after the submission of his tender or after the acceptance of his tender, the BHEL may at their discretion cancel such tender.
<b>21.</b>	The BHARAT HEAVY ELECTRICALS LIMITED, will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm, made subsequent to the execution of the contract. They may, however, recognize such power of attorney and change after obtaining proper legal advice, the cost of which will be charged above to the contractor concerned.
<b>22.</b>	If the tenderer deliberately gives wrong information in his tender BHEL, reserves the right to reject tender at any stage.
<b>23.</b>	Words imparting the singular number shall also be deemed to include the plural number and vice the context so required.
<b>24.</b>	The 'General Instructions to Tenderers' and 'Special Terms and Conditions of Contract' are complementary to each other and where they are in conflict, the 'Special terms and conditions of Contract 'shall prevail.
<b>25.</b>	The expenses for completing and stamping the agreement shall be paid by the contractor.
<b>26.</b>	Tenderer shall not increase their quoted rates, in case BHEL, calls for negotiation for reduction of rates or goes for Reverse Auction . Such negotiations/Reverse auction shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be binding on the tenderers for the period of three months from the date of opening of tenders. (If price negotiation held on any tender, the revised offer should be submitted within a week.)
<b>27.</b>	All contractors will have to produce PAN/income tax clearance certificate from the Income Tax concerned along with their tender. The contractor whose Income is not taxable will be required to give affidavit for their income on the prescribed form. If the successful tenderer fails to produce the PAN/income tax clearance certificate within the stated period, the Earnest money deposit and the Security Deposit of the tenderer may be forfeited and the contract terminated.
<b>28.</b>	<b>TENDERERS ARE REQUESTED TO COVER THEIR EMPLOYEE (SUPERVISORS AND LABOURERS) UNDER PF/ESI/GROUP INSURANCE/CONTRACT LABOUR REGULATIONS ACT.</b>
<b>29.</b>	THE GENERAL INSTRUCTIONS TO TENDERER shall be deemed to form an integral part of the work to be entered into.

Contractor signature/seal

Accepting officer/BHEL



**BHARAT HEAVY ELECTRICALS LIMITED**  
**HIGH PRESSURE BOILER PLANT**  
**TIRUCHIRAPALLI – 620 014**  
**M & S CONTRACTS (ELECTRICAL)**

**GENERAL TERMS AND CONDITIONS**

<b>A</b>	<b>EARNEST MONEY DEPOSIT:</b>	
	Tender must be accompanied by Earnest Money for the amount mentioned in tender notice, pledged to BHEL, Trichy in any of the forms mentioned below. The Earnest Money Deposit will be refunded to the unsuccessful tenderers within 15 days of acceptance of the award of work by successful tenderer. In the case of successful tenderer, the Earnest Money Deposit will be retained as part of the Security Deposits for satisfactory completion of the work in accordance with clause 2.0 of the General Terms and Conditions of contract.	
<b>A.1</b>	The Earnest Money Deposit may be furnished in form of Pay order or Demand Draft drawn in favour of BHEL-Trichy.	
	<b>Note: EMD shall not carry any interest.</b>	
<b>A.2</b>	Unless the Contractor, whose tender is accepted, signs the contract agreement, within Fifteen days (15 days) of the date of the order directing him to do so, the amount of Earnest Money Deposit already deposited by him will be forfeited, acceptance of the tender withdrawn and will attract penal action or/and suspension of business dealing with the contractor.	
<b>A.3</b>	If after opening of tenders, a tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instructions of the Engineer-In-Charge, the Earnest Money Deposited by him will be forfeited, acceptance of his tender withdrawn and will attract penal action or/and suspension of business dealing with the contractor. If only, a part of the work included in the tender has been awarded to the tenderer and the tenderer refuses to take up the work the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.	
<b>B</b>	<b>SECURITY DEPOSIT:</b>	
	The contractor whose tender has been accepted shall, within Fifteen(15) days of receipt of the notification of acceptance of his tender, should deposit the prescribed sum as per Clause B.1 towards Security Deposit.	
<b>B.1</b>	The rate of security deposit for the contract will be as follows:	
	<b>a).</b> For Contract Valued up to Rs 10.00 Lakh.	: 10% of the Contract value.
	<b>b).</b> For Contract Valued above Rs 10.00Lakh upto Rs 50.00 Lakh	: Rs 1 lakh plus 7.5% on the balance of the contract value.
	<b>c).</b> For Contracts valued above Rs 50.00 Lakh	: Rs 4 lakhs + Plus 5% on the balance of the contract value.
<b>B.2</b>	The Security Deposit may be furnished in any of the following forms:	
	<b>a).</b> Pay order or Demand Draft drawn in favour of BHEL.	
	<b>b).</b> Local cheques of scheduled banks, subject to realization.	
	<b>c).</b> Securities available from Post offices such as National Savings Certificates, Kisan Vikas Patra etc. (Certificates should be held in the name of the contractor furnishing the security and duly pledged in favour of BHEL, Trichy and discharged on the back).	
	<b>d).</b> Bank Guarantee from scheduled Banks/Public Financial Institutions as defined in the Companies Act. The bank guarantee format should have the approval of BHEL.	



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**M & S CONTRACTS (ELECTRICAL)**

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	<p><b>e).</b> Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act . The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.</p> <p><b>f).</b> Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit will be collected before start of the work and the balance 50% may be recovered from the running bills.</p> <p><b>h).</b> EMD of the successful tenderer shall be converted and adjusted against the security deposit.  <b>NO INTEREST SHALL BE ALLOWED ON SECURITY DEPOSITS.</b> BHEL, shall not be responsible for any loss of securities due to liquidation or any other reason whatsoever or any depreciation in the value of the Securities while in their charge or for any loss of interest thereon.</p> <p><b>NOTE:</b> Acceptance of Security Deposit against Sl. No. (c) and (d) above will be subject to hypothecation or endorsement on the documents (Signature of the Branch Manager must be present ) in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.</p>
<b>B.3</b>	All compensation or other sums of money payable by the contractor to BHEL under the terms of this contract or under any other contract with BHEL, may be deducted from the Security Deposit or realized by the sale of the securities of from the interest arising there from or from any sums which may be due or may become due to the contractor payable by BHEL, on any account whatsoever against this contract of any other contract with BHEL and in the event of his Security Deposit being reduced by reason of such deductions or sale as aforesaid, the Contractor shall within seven days thereafter make good in cash or in securities endorsed as aforesaid, any sum or sums by which the security Deposit has been so reduced.
<b>B.4</b>	Security Deposit will be refunded on completion of the work and after the expiry of the warranty period. In case no warranty period is applicable, then 100% of security Deposit will be refunded after confirming the final bill payment.
<b>C</b>	<b>INCOME TAX :</b>
<b>C.1</b>	<p><b>a).</b> Income tax shall be deducted at the applicable rate in respect of the service contract including supply of labour for any work as follows:  # Up to Rs. 10 lakhs: 10%  # Above Rs. 10 lakhs up to Rs.50 lakhs: Rs.1 lakh + 7.5% of the amount exceeding Rs. 10 lakhs.  # Above Rs. 50 lakhs: Rs 4 lakhs + 5% of the amount exceeding Rs. 50 lakhs. The security Deposit should be collected before start of the work by the contractor.</p> <p><b>b).</b> Xerox copy of PAN card shall be submitted to Account Dept along with original for verification.</p> <p><b>c).</b> TDS Certificate will be issued to vendors for each quarter ending as on 30th June,30th Sept,31st Dec. and 31st March during the following quarter.</p>



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**M & S CONTRACTS (ELECTRICAL)**

**GENERAL TERMS AND CONDITIONS**

<b>D</b>	<b>SERVICE TAX</b>						
<b>D.1</b>	<p><b>a)</b>The contractor shall issue an invoice,a bill or as the case may be ,a challan duly signed by contractor or a person authorized by contractor in respect of contract agreed to be provided, within thirty days of the date when each event specified in the contract ,which requires BHEL to make payment to contractor ,is completed.</p> <p><b>b).</b> The invoice/bill in original duly signed by the contractor claiming the payment for Service Tax shall clearly indicate the following:</p> <ol style="list-style-type: none"> <li>1) Continuous Serial no &amp; date of the bill.</li> <li>2) Period of executed work .</li> <li>3) Cost of the service.</li> <li>4) Separately showing the Service Tax amount calculated at the applicable rate</li> <li>5) Separately showing the Cess on Service Tax amount</li> <li>6) PAN based Service Tax Registration No.</li> </ol> <p><b>c).</b> The service tax claimed in the bill will be paid to the contractor based on the proof of payment of service tax to the Central Government for the previous month/quarter as the case may be.</p>						
<b>E</b>	<b>TDS UNDER TN VALUE ADDED TAX(VAT)</b>						
<b>E.1</b>	<p><b>a).</b> TDS under TNVAT shall be done for the service contracts which includes supply of materials ,at the time of payment for execution of works contract, at the following rate, namely:-</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">(i) civil works contract</td> <td>-two per cent of the total amount payable.</td> </tr> <tr> <td>(ii) civil maintenance works contract</td> <td>-two per cent of the total amount payable.</td> </tr> <tr> <td>(iii) All other works contracts</td> <td>- [five] per cent of the total amount payable.</td> </tr> </table>	(i) civil works contract	-two per cent of the total amount payable.	(ii) civil maintenance works contract	-two per cent of the total amount payable.	(iii) All other works contracts	- [five] per cent of the total amount payable.
(i) civil works contract	-two per cent of the total amount payable.						
(ii) civil maintenance works contract	-two per cent of the total amount payable.						
(iii) All other works contracts	- [five] per cent of the total amount payable.						
<b>F</b>	<b>LIQUIDATED DAMAGE/PENALITY :</b>						
<b>F.1</b>	<p>If the contractor fails to complete the service/work as per terms &amp; conditions of the order within the</p> <p><b>a)</b> LD shall be levied @ 0.5 % of the order value per week of delay or part thereof subject to a maximum of 10% of the full order value.</p> <p><b>b)</b> In case of any change to the order value, the LD shall be @ 0.5 % of the revised order value per week of delay or part thereof subject to a maximum of 10% of the revised order value.</p>						



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**BHARAT HEAVY ELECTRICALS LIMITED  
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M & S CONTRACTS (ELECTRICAL)**

**SPECIAL TERMS AND CONDITIONS**

<b>A</b>	<b>SPLITTING OF CONTRACT:</b>			
	The work shall be divided between two (02) vendors. The tenderers in order of their competitiveness will be asked to match the overall L1 rate for the work. The splitting of contract shall be done as follows:			
	SI No:	No. of vendors agreed for matching their rate to L1 rate:	WO value that will be awarded to L1	WO value that will be awarded to L2 agreeing to match to L1 rate.
	case 1:	1	60 %	40%
	case 2:	0	100 %	NA
	Note:	1.) The distribution of work shall be done in fair, transparent and equitable manner as per proposed ratio. 2.) The proposed ratio of division of work is notional which may vary as per requirement. BHEL will apportion the work to balance the quantum of work as a percentage of value between the successful vendors and shall be reviewed quarterly.		
<b>B</b>	<b>FINALIZATION OF CONTRACT BY ADOPTING "REVERSE AUCTION":</b>			
<b>B.1</b>	<p><b><i>"BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.</i></b></p> <p><b><i>In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non- submission of "online sealed bid" by the bidder will be considered as tempering of the tender process and will invite action by BHEL as per extant guidelines in vogue."</i></b></p>			
<b>C</b>	<b>DEPLOYMENT OF WORKMEN &amp; SUPERVISORS</b>			
<b>C.1</b>	<p><b>a).</b> A list containing the name of persons who are working, their age, designations, pay, nature of work is to be furnished immediately on receipt of work order, in triplicate.</p> <p><b>b).</b> The work should be carried out in the presence of contract supervisor and prior permission should be obtained from the concerned supervisor and the section before starting the work.</p> <p><b>c).</b> The Contractor is required to cover their employee/labourers by suitable insurance scheme (like Janatha Insurance) against any risk. The policy taken by them should be produced to BHEL authorities concerned before commencing the work.</p>			



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M & S CONTRACTS (ELECTRICAL)**

**SPECIAL TERMS AND CONDITIONS**

<b>D</b>	<b>BIOMETRIC ENTRY/EXIT SYSTEM FOR CONTRACT WORKMEN</b>
<b>D.1</b>	<p><b>a).</b>The Entry/Exit of the contract workmen is to be regulated only through Biometric system.</p> <p><b>b).</b>The Contractor initially will be issued with a temporary gang pass for his/her contract workmen for a period of ten days.</p> <p><b>c).</b>The contractor should arrange photo coverage for all his/her workmen within the above stipulated time.</p> <p><b>d).</b>The contractor has to submit Form I for all his/her contract workmen. All the particulars required in Form I are to be provided by the contractor without fail.</p> <p><b>e).</b>The contractor should educate the contract workmen in registering the attendance through the system.</p> <p><b>f).</b>Whenever a contract workman migrates or leaves service, the contractor has to surrender the biometric card of the particular contract workman to Contract Cell with immediate effect.</p> <p><b>g).</b>If a contract workman having biometric card joins another contractor, the contractor who engages them, has to intimate contract cell along with the biometric card for switching over the contract workmen from the earlier contractor to the present contractor.</p> <p><b>h).</b>On completion of the work, the contractor has to surrender all the biometric cards immediately to the contract cell. Otherwise, an amount of Rs.100/- per card will be deducted from the final bill/security deposit of the contractor.</p> <p><b>i).</b>If any contract workmen lose his/her card, the contractor shall arrange a duplicate card for the workmen by paying an amount of Rs.100/-.</p> <p><b>j).</b>The Contractor is totally responsible for the biometric cards issued to his/her contract workmen.</p>
<b>E</b>	<b>SAFETY :</b>
<b>E.1</b>	<p><b>a).</b> In case of cable laying ,work should be carried out after getting the prior permission from the concerned electrical supervisor and civil department for digging the road when it is required to ensure that proper</p> <p><b>b).</b> While digging the road, a good barricade and proper sign boards should be provided in the area.</p> <p><b>c).</b> While erecting the poles, proper safety precautions such as supporting the poles, tying with ropes suitable lifting tackles etc. are to be adhered.</p> <p><b>d).</b> While working at heights, proper platform ladder, safety belts, etc. should be used.</p> <p><b>e).</b> The necessary safety equipments such as gloves, lineman's belts etc. should be used.</p> <p><b>f).</b> Any other safety measure as necessitated by the nature of work should be strictly followed.</p> <p><b>g).</b> If Contractor's workmen are found to violate the safety regulations punitive action will be taken by withholding a sum of Rs. 100/- to Rs. 500/- for each such violation.</p> <p><b>h).</b> These safety measures shall be deemed to form an integral part of the work order/agreement.</p>
<b>F</b>	<b>COMPLIANCE WITH VARIOUS LABOUR LAWS :</b>
<b>F.1</b>	<p>The Contractor shall in respect of labour employed by him either directly or through sub contractors, comply with or cause to be complied with the following statutory provisions, rules &amp; in regard to all matters provided</p> <p><b>a).</b> The Contract labour (Regulation &amp; Abolition) Act 1970 and the related Tamilnadu Rules.</p> <p><b>b).</b> The Minimum Wage Act 1948 and the related Tamilnadu Rules.</p> <p><b>c).</b> The Payment of Wages Act 1936 and the related Tamilnadu Rules.</p> <p><b>d).</b> The Factories Act 1948 and the related Tamilnadu Rules.</p> <p><b>e).</b> Employee's Provident Fund &amp; Miscellaneous Provision Act 1952.</p> <p><b>f).</b> The Workmen Compensation Act 1923.</p>



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**SPECIAL TERMS AND CONDITIONS**

	<b>g).</b> The Industrial Dispute Act 1947.
	<b>h).</b> Minimum wage of Rs 7865/-,Rs 8165/-,Rs 8345/- ,Rs 8131/- per month to all Unskilled, Semiskilled, Skilled labourers and Supervisors respectively as per Minimum Wage Act-1948.(Note: This is subject to change as per guidelines from Commissioner of labour,Chennai )
	<b>Note: The minimum wage gets revised on 1st April of the every year by Tamilnadu government.Payment to workers shall be made as per Revised Minimum wages w.e.f date of</b>
	<b>i).</b> Additional Amount of Rs 3200/-,Rs 3700/-,Rs 4100/- ,Rs 4100/- per month to all Unskilled, Semiskilled, Skilled labourers and Supervisors respectively over and above the minimum wage as per BHEL Corporate
	<b>j).</b> Bonus payment to be made for the Contract employees as per Bonus Act.
	<b>TENDERERS ARE REQUESTED TO COVER THEIR EMPLOYEE (SUPERVISORS AND LABOURERS) UNDER EPF/ESI/GROUP INSURANCE/CONTRACT LABOUR REGULATIONS ACT.</b>
<b>G</b>	<b>STANDARDS FOR MATERIALS &amp; SERVICES/WORKS</b>
<b>G.1</b>	<b>a).</b> Small consumables like Screws, clamps, PVC L, T, Coupling, Bend, Elbow , Bolt,Nuts are the scope of the contractor.
	<b>b).</b> If any other materials required other than BHEL supply specified in the schedule is meant to contractor's scope of supply.
	<b>c).</b> Issue of materials from Stores is subject to the availability. The contractor shall not be entitled for any claim or compensation for non-supply or delay in supply from Stores under any
	<b>d).</b> Entire work should be completed within the stipulated period.
	<b>e).</b> Cable glands, Electrical Power Boards, Switch Boxes are to be properly earthed.
	<b>f).</b> 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 etc. as applicable to electrical works should be adhered while carrying out the work.
<b>G.2</b>	All the materials supplied by the contractor should conform to the relevant IS/BS/ISO/EN Specifications and agreeable to the engineer-in-charge.
<b>G.3</b>	The wiring shall confirm IS: 732:1989/2005 or any other relevant Indian Standard Specifications and Indian Electricity Rules.
<b>G.4</b>	Incase of PVC / Steel conduit wiring, the switches, plug sockets,regulators and other controls should be mounted on metal boxes.These boxes as well as all metal boxes used for street light controls should be fabricated as per IS 5133: Part-1: 1969 / 1996.
<b>G.5</b>	Erection of equipments includes testing and commissioning of equipments.
<b>G.6</b>	Completion reports should be submitted in the pro forma as per appendix 'E' of IS 732: 1989/2005.
<b>G.7</b>	The contractor should be present at the time of inspection of the installation by the Electrical inspector. Any defects pointed out by the Electrical inspector should be rectified by the contractor free of cost.
<b>G.8</b>	Final lay-out as well as foundation drawings should be submitted in advance for executing the civil works.
<b>G.9</b>	Any covering letter and comments of the contractor should be submitted in duplicate along with the offer.



244 84

**BHARAT HEAVY ELECTRICALS LIMITED  
HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI – 620 014  
M & S CONTRACTS (ELECTRICAL)**

**SPECIAL TERMS AND CONDITIONS**

<b>G.10</b>	<p>If cables have to be laid in the ground, the following specification should be followed:</p> <p><b>FOR LT CABLE :</b> For laying of single run of cable, trenches should be excavated up to a depth of 0.8 meter,width 0.3 metre (add 0.1 M width for additional run for excavation) and 0.075 meter deep layer of sand should be spread below as well as above the cable (0.15 M) and covered with one layer of brick with longitudinal direction. If two or more cables are run, the brick should be laid in a longitudinal direction for each cable separately and 0.075 meter deep layer of sand should be spread below as well as the above the cable for each run (0.15M).</p> <p><b>FOR HT CABLE :</b> For laying of single run of cable, trenches should be excavated upto a depth of 1 meter,width 0.35 metre (add 0.35 M width for additional run for excavation) and 0.075 meter deep layer of sand should be spread below as well as above the cable (0.15M).The cable covered with bricks by box type formation. If two or more cables are run, the bricks should be laid in a box type formation for each cable and 0.75 meter deep layer of sand should be spread below as well as the above the cable (0.15M) for each run.</p>
<b>G.11</b>	In case of open trench/wall/column,cables have to be taken with proper clamping either in cable racks/wall/column.The clamps have to be supplied by the contractor.
<b>G.12</b>	End Termination for the cable include supply and using solerless crimping type tinned copper lugs, glands and if necessary cable adaptor boxes etc. and earthing the glands and adaptor boxes with 8 SWG/7/20 GI wire.
<b>G.13</b>	The Cement will not be supplied by BHEL.
<b>G.14</b>	Cubicle/Industrial Type switch boards should be manufactured by any of the reputed manufacturer, (if the make of the switch board is not specifically mentioned in the detailed specification of the board ),who have sufficient experience in manufacture of electrical switch boards. The switch board has to be approved by BHEL before dispatch to work spot.
<b>G.15</b>	For all sheet metal fabrication, pre-treatment of all metals with acid and rust preventing chemical has to be carried out and two coats of red oxide and one coat of stove enamelling paint has to be applied by spray painting.

QUALIFYING CRITERIA					
NAME OF WORK:AMC FOR MAINTENANCE OF ROOF LIGHTS IN VARIOUS BUILDINGS AT BHEL PREMISES,TRICHY.					
NAME OF THE COMPANY/ FIRM:					
QUALIFYING PARAMETERS FOR TECHNICAL CUM COMMERCIAL OFFER					
1	SEPARATE REGISTRATION FOR EPF, ESI, SERVICE TAX and PAN.	EPF REG. NO.			
		ESI REG. NO.			
		ST REG. NO.			
		PAN NO.			
2	VALID ES A/ ES B /EA/EB GRADE CONTRACTOR LICENSE ISSUED BY TAMILNADU ELECTRICAL LICENCING BOARD	LICENSE GRADE	LICENSE NO	VALIDITY	
3	INCOME TAX RETURN STATEMENT FOR LAST THREE FINANCIAL YEARS. (2011-12,2012-13,2013-14)	STATUS	2011-12	2012-13	2013-14
		YES/NO			
4	AVERAGE ANNUAL TURNOVER FOR LAST THREE FINANCIAL YEARS. (2011-12,2012-13,2013-14)	QUALIFYING VALUE (30 % OF ESTIMATE VALUE) Rs.4.51 LAKHS	AVERAGE VALUE FOR LAST THREE YEARS:		
5	EXPERIENCE OF HAVING SUCCESSFULLY COMPLETED SIMILAR WORKS DURING LAST SEVEN YEARS ENDING LAST DAY OF MONTH PREVIOUS TO THE ONE IN WHICH APPLICATION IS BEING INVITED.	QUALIFYING VALUE (% OF ESTIMATE VALUE)			
	THREE SIMILAR COMPLETED WORKS COSTING NOT LESS THAN THE AMOUNT EQUAL TO 40 % OF ESTIMATE VALUE (OR)	40 % OF 15.03LAKHS (6.0 LAKHS)	WO DETAILS	WO DETAILS	WO DETAILS
			WO VALUE	WO VALUE	WO VALUE
	TWO SIMILAR COMPLETED WORKS COSTING NOT LESS THAN THE AMOUNT EQUAL TO 50 % OF ESTIMATE VALUE (OR)	50 % OF 15.03LAKHS (7.5 LAKHS)	WO DETAILS		WO DETAILS
			WO VALUE		WO VALUE
	ONE SIMILAR COMPLETED WORK COSTING NOT LESS THAN THE AMOUNT EQUAL TO 80 % OF ESTIMATE VALUE	80 % OF 15.03 LAKHS (12.0 LAKHS)	WO DETAILS		
			WO VALUE		
6	SOLVENCY (Attach Certificate(from scheduled bank) issued within six months from date of enquiry.)	QUALIFYING VALUE	SOLVENCY AMOUNT	DETAILS OF SOLVENCY CERTIFICATE	
		03 LAKHS			
7	STATEMENT OF EQUIPMENT OWNED.		DETAILS TO BE FILLED IN ATTACHED ANNEXURE-A.		
8	AVAILABILITY OF QUALIFIED STAFFS.		DETAILS TO BE FILLED IN ATTACHED ANNEXURE-B.		
<b>NOTE:</b>					
1. SL NO.1,2 & 3 ARE STATUTORY REQUIREMENTS FOR QUALIFYING FOR TENDER.					
2. SUPPORTING DOCUMENTS FOR DETAILS FURNISHED ABOVE SHOULD BE ATTACHED .					

<b>ANNEXURE-A</b>			
<b>DETAILS OF MACHINERY AND EQUIPMENTS</b>			
<b>S.No:</b>	<b>DETAILS OF TOOLS</b>	<b>QUALIFYING QTY</b>	<b>QTY AVAILABLE</b>
<b>1</b>	Hand Drilling Machine	01 NO*	
<b>2</b>	Basic Electrical Tools (Cutting pliers,all sizes of Screw Driver,wire snippers etc.,)	01 SET*	
<b>3</b>	1000 Volts Megger	01 NO*	
<b>4</b>	Digital Multimeter	01 NO*	

\* -Essential and mandatory

<b>ANNEXURE-B</b>			
<b>DETAILS OF MANPOWER EMPLOYED ON FULL TIME BASIS SOLELY FOR THE PURPOSE OF CONTRACT WORKS</b>			
<b>S.No:</b>	<b>DESIGNATION</b>	<b>QUALIFYING NO OF STAFFS</b>	<b>AVAILABLE</b>
<b>1</b>	Engineer holding Diploma degree in Electrical Engineering	<b>0</b>	
<b>2</b>	Electrical Supervisor holding valid Supervisor Competency Certificate issued by TNLB,Chennai	<b>1*</b>	
<b>3</b>	Electrician or Wireman holding valid Competency Certificate issued by TNLB,Chennai.	<b>8*</b>	
<b>4</b>	Electrician Helper or Wireman Helper holding valid Competency Certificate issued by TNLB,Chennai.	<b>4*</b>	

\* -Essential and mandatory

## JOB DESCRIPTION

**NAME OF WORK: AMC FOR MAINTENANCE OF ROOF LIGHTS IN VARIOUS BUILDINGS AT BHEL PREMISES,TRICHY.**

S.No	WORK DESCRIPTION	UOM	QTY	RATE
10	<p>Checking, identifying the faults in the Roof light fittings of 70/150/250/400/500 Watts (HPMV/ HPSV/ Metal Hallide) 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 &amp; safety chains etc. for it's healthiness by tightening the fixing bolts and nuts.</p> <p>Work to carried in LOW BAY CRANEABLE AREA:</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1-12Bay = 700 NO            2).Bldg.-1/DS&amp;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  <b>Total available app. = 3887 NO</b></p>	No.	2332	QUOTED
20	<p>Scope of work: As in Sl. No 10 but in the LOW BAYS -NON CRANABLE AREA:</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bays = 20 NO            light fittings on surrounding =            wall and entry opening of B-1=            2).Bldg.-1/DS &amp; PS = 100 NO            3).Bldg.-6 = 200 NO            4).Bldg.-50 = 55 NO            5).Gas Plant = 25 NO            6).HRDC = 80 NO  <b>Total available app. = 480 NO</b></p>	NO	384	QUOTED
30	<p>Scope of work: As in Sl. No 10 and work to be carried in <b>HIGH - BAYS/ CRANABLE AREA:</b></p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b = 170 NO            2).Bldg.-1/DS &amp; 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  <b>Total available app. = 3568 NO</b></p>	No.	2498	QUOTED
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><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 165 NO            2).Bldg.-1/DS &amp; 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  <b>Total available app. = 1215 NO</b></p>	No.	729	QUOTED

S.No	WORK DESCRIPTION	UOM	QTY	RATE
50	<p>Scope of work: As in Sl. No.30 for <b>TWIN TYPE</b> 28W/40W/65W Fluorescent Lamp Tube Light Fittings.</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 478 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 2123 NO</b></p>	No.	1274	QUOTED
60	<p>Scope of work: As in Sl. No.30 for Incandescent lamp fittings of various ratings(up to 1000 Watts).</p> <p><b>Area wise break-up:</b></p> <p>Bldg.-1/DS &amp; PS = 50 NO  Bldg-6 = 15 NO  HRDC = 30 NO  <b>Total available app. = 95 NO.</b></p>	No.	57	QUOTED
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 tightning the chuck nuts fixing bolts and nuts, etc.</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 293 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 1468 NO</b></p>	No.	881	QUOTED
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 tightning nut etc., for it's healthiness by tightning the fixing bolts and nuts, etc.  In case of winding failure, the motor should be removed from fixture and should be refixed after rewinding the motor.  Note: Rewinding will be done by BHEL.</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 45 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 245 NO</b></p>	No.	172	QUOTED

S.No	WORK DESCRIPTION	UOM	QTY	RATE
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/ Copper wire in the existing PVC pipe for the wiring points in the roof light wiring points(Roof height: 10 Mtrs Apprx.).Note:The wire will be issued by BHEL at stores/ Site.</p> <p><b>Area wise break-up:</b>            1).Bldg.-1/1a-1b &amp; 1-12 Bay = 1500 M            2).Bldg.-1/DS &amp; 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  <b>Total available app. = 9150 M</b></p>	No.	3660	QUOTED
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/ Copper wire in the existing PVC pipe for the wiring points in cabins/ rooms/ annex building rooms. The wires will be issued by BHEL at stores/Site. The removed old/ damaged wires should be handed over to disposal stores.</p> <p><b>Area wise break-up:</b>            1).Bldg.-1/1a-1b &amp; 1-12 Bay = 700 M            2).Bldg.-1/DS &amp; PS = 3000 M            3).Bldg.-5 = 750 M            4).Bldg.-6. = 800 M            5).Bldg.-50. = 1800 M            6).HRDC = 500 M  <b>Total available app. = 7550 M</b></p>	No.	3020	QUOTED
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,cleaning the complete fitting and checking &amp; tightening of the safety chain with fixing bolts &amp; 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><b>Area wise break-up :</b>            1).Bldg.107,108,117 Unit-II = 154 NO            -----  <b>Total available app. = 154 NO</b></p>	No.	31	QUOTED

ENQUIRY NO:9451500006 Dated:28-03-2015					
NAME OF WORK: AMC FOR MAINTENANCE OF ROOF LIGHTS IN VARIOUS BUILDINGS AT BHEL PREMISES,TRICHY.					
S.No:	WORK DESCRIPTION	UOM	QTY	RATE	AMOUNT
10	<p>Checking, identifying the faults in the Roof light fittings of 70/150/250/400/500 Watts (HPMV/ HPSV/ Metal Hallide) 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 &amp; safety chains etc. for it's healthiness by tightning the fixing bolts and nuts.</p> <p>Work to carried in LOW BAY CRANEABLE AREA:</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1-12Bay = 700 NO            2).Bldg.-1/DS&amp;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  <b>Total available app. = 3887 NO</b></p>	No.	2332		
20	<p>Scope of work: As in Sl. No 10 but in the LOW BAYS -NON CRANABLE AREA:</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bays = 20 NO            light fittings on surrounding =            wall and entry opening of B-1=            2).Bldg.-1/DS &amp; PS = 100 NO            3).Bldg.-6 = 200 NO            4).Bldg.-50 = 55 NO            5).Gas Plant = 25 NO            6).HRDC = 80 NO  <b>Total available app. = 480 NO</b></p>	NO	384		

Contractor signature/seal

Accepting Officer-BHEL

S.No:	WORK DESCRIPTION	UOM	QTY	RATE	AMOUNT
30	<p>Scope of work: As in Sl. No 10 and work to be carried in <b>HIGH - BAYS/ CRANABLE AREA:</b></p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b = 170 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 3568 NO</b></p>	No.	2498		
40	<p>Checking, identifying the faults in Box/ Industrial type fluorescent tube light fittings (28W/40W/65W (<b>SINGLE TYPE</b>) 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><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 165 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 1215 NO</b></p>	No.	729		

Contractor signature/seal

Accepting Officer-BHEL

S.No:	WORK DESCRIPTION	UOM	QTY	RATE	AMOUNT
50	<p>Scope of work: As in Sl. No.30 for <b>TWIN TYPE</b> 28W/40W/65W Fluorescent Lamp Tube Light Fittings.</p> <p><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 478 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 2123 NO</b></p>	No.	1274		
60	<p>Scope of work: As in Sl. No.30 for Incandescent lamp fittings of various ratings(up to 1000 Watts).</p> <p><b>Area wise break-up:</b></p> <p>Bldg.-1/DS &amp; PS = 50 NO  Bldg-6 = 15 NO  HRDC = 30 NO  <b>Total available app. = 95 NO.</b></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><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 293 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 1468 NO</b></p>	No.	881		

Contractor signature/seal

Accepting Officer-BHEL

S.No:	WORK DESCRIPTION	UOM	QTY	RATE	AMOUNT
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 its healthiness by tightening the fixing bolts and nuts, etc. 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><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 45 NO  2).Bldg.-1/DS &amp; 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  <b>Total available app. = 245 NO</b></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/ Copper 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><b>Area wise break-up:</b></p> <p>1).Bldg.-1/1a-1b &amp; 1-12 Bay = 1500 M  2).Bldg.-1/DS &amp; PS = 3000 M  3).Bldg.-5 = 750 M  4).Bldg.-6 = 1200 M  5).Bldg.-50 = 1500 M</p>	No.	3660		

S.No:	WORK DESCRIPTION	UOM	QTY	RATE	AMOUNT
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/ Copper wire in the existing PVC pipe for the wiring points in cabins/ rooms/ annex building rooms.  The wires will be issued by BHEL at stores/Site.  The removed old/ damaged wires should be handed over to disposal stores.</p> <p><b>Area wise break-up:</b>  1).Bldg.-1/1a-1b &amp; 1-12 Bay = 700 M  2).Bldg.-1/DS &amp; PS = 3000 M  3).Bldg.-5 = 750 M  4).Bldg.-6. = 800 M  5).Bldg.-50. = 1800 M  6).HRDC = 500 M  <b>Total available app. = 7550 M</b></p>	No.	3020		
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,cleaning the complete fitting and checking &amp; tightening of the safety chain with fixing bolts &amp; 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><b>Area wise break-up :</b>  1).Bldg.107,108,117 Unit-II = 154 NO</p>	No.	31		
				TOTAL AMOUNT	

Contractor signature/seal

Accepting Officer-BHEL