



**BHARAT HEAVY ELECTRICALS LIMITED
HPEP, RAMACHANDRAPURAM, HYDERABAD-32
(Township Administration Department)**

TELEGRAM: BHARATELEC TELEPHONE NO. 23182157 & 23183585

FAX NO. 040 – 23186134

TENDER NOTICE

Name of the department : TOWNSHIP ADMINISTRATION-CIVIL
Tender Notice No : **HY/TA/OT-01/2017-18, Date: 13.06.2017**

Bharat Heavy Electricals Limited, a Government of India Public Sector undertaking Bharat Heavy Electricals Limited, a Government of India Public Sector undertaking having its Registered Office at Siri Fort, New Delhi. BHEL Ramachandrapuram, one of its manufacturing Units, invites sealed tenders in two part bid from eligible /Contractors, who fulfill qualification criteria as stipulated in NIT, for the work, **“Operation & Maintenance of 2 X 4 MLD Sewage Treatment Plant for Factory and Township of BHEL R C Puram Unit”**.

1. Sealed quotations in single cover consisting of two inner sealed covers (containing Technical bid as Part A and Price bid as Part B super scribing the Name of work, Part Number and Tender reference will be received at this office Up to **11.00 AM** on or before **18.08.2017** at vendor complex, besides administrative building, BHEL Ramachandrapuram. Technical bid will be opened at **13:30 Hrs.** on the same date and further information if any, may be obtained from the office.
2. The tender documents are also available in the Web Site of BHEL www.bhel.com. Those who wish to download the same may do so. While submitting the tender documents, a demand draft/cash paid at BHEL cash office towards cost of tender document should be enclosed. The cost of Tender documents downloaded through webs is Rs.250.00 only. The tender documents downloaded from the website without demand draft for the specific value will be summarily rejected. Corrigendum if any will be published in BHEL web site only. The brief scope of the work and information are provided below:
3. The salient features of the tender documents are as follows :
 - i) Notice inviting Tender
 - ii) Instruction to Tenderer
 - iii) General terms and conditions
 - iv) Duties and Responsibilities of Contractor
 - v) Manpower
 - vi) Contract Work description
 - vii) Pro-forma for offering technical bid
 - viii) Special terms and conditions of Contract
 - ix) Price Bid Format
 - x) Declaration by Contractor
 - xi) Period of contract
 - xii) Failure to comply with contract
 - xiii) Payment to Contractor
 - xiv) Sub-contract
 - xv) Statutory requirement
 - xvi) Copy of agreement between BHEL & Contractor

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4. A set of tender documents (non-transferable) may be purchased on any working day (Monday to Saturday) between 09:00 hrs. to 14:00 hrs. From **Township Administration Planning Department**, BHEL-HPEP, RC PURAM, HYDERABAD - 32 by paying the prescribed Tender fee of **Rs.500/- only** in the form of cash in the Cash Counter of BHEL, / RC Puram or crossed Demand Draft in favour of "BHEL-RC PURAM, HYDERABAD-32".
5. In case, tender documents are requested by post, BHEL-HPEP shall not be responsible for any delay due to any reasons (including postal delay) either in receiving the Agency's request nor receipt of tender documents by the Agency.

(Signature & Designation of Official)

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1.0 NOTICE INVITING TENDER

TENDER NOTICE NO. HY/TA/ST-01/2016-17, Date: 31.05.2016

- Name of work : **"Operation & Maintenance of 2 X 4 MLD Sewage Treatment Plant for Factory and Township Sewage of BHEL R C Puram Unit".**
- Earnest Money Deposit : **Rs.43,200=00**
- Approximate Estimated value of work : **Rs. 21,60,000=00**
- Cost of Tender documents : **250/- (through Web)**
- Last date for sale of tender documents : **17.08.2017 at 14:00 hrs**
(Mention date and time)
- Last date of receipt of tenders : **18.08.2017 at 11:00 hrs**
(Mention date and time)
- Date, time and place of tender opening : **18.08.2017 at 13:30 hrs**
(Mention date, place and time) at Vendor Complex near Admn. Building, BHEL, RC Puram, HYD
- Period of Completion : **12 Months**
(Mention duration of the Contract)
- Maintenance period : **NA**
- Any corrigendum : Will be communicated.

Name & Address:

Email: _____

Fax no: _____

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2.0 PREQUALIFICATION REQUIREMENTS:

The following conditions have to be satisfied by the tenderer, with documentary proof to be enclosed with tender bid (Technical):

- (i) Average annual financial turnover during the last 3 years, ending 31st March of the previous financial year (should submit balance sheet & P&L account for last 3 years –certified by Chartered Accountant), should be at least 30% of the estimated cost (30% of 21.60 lakhs = Rs 6.48 lakhs). Further, the tenderer fail to submit the figure (s) for 3 years, non-submitted year will be considered as "0" (Zero) for averaging the turnover. Please refer Special Terms & Conditions.
- (ii) Particulars of experience / credentials for the works executed of similar nature during not older than 7 years (Completion and experience certificate of the works to be enclosed) ending last day of month previous to the one in which applications are invited should be either of the following: please refer special Terms & Conditions.
 - a. Three similar completed works each costing not less than the amount equal to 25% of the estimated cost (25% of 21.60 lakhs = Rs.5.40 lakhs).
OR
 - b. Two similar completed works each costing not less than the amount equal to 35% of the estimated cost (35% of 21.60 lakhs = Rs.7.56 lakhs).
OR
 - c. One similar completed work costing not less than the amount equal to 50% of the estimated cost (50% of 21.60 lakhs = Rs.10.80 lakhs).

Note: - Experience certificate issued by BHEL, RC Puram in case any work executed in BHEL, RC Puram for past three years, and any adverse remarks in the experience certificate will be a disqualification factor.

Similar work means:

Experience in Operation & Maintenance of minimum 1MLD Sewage Treatment Plant based on Membrane Based Bioreactor Technology (MBR).

(Copy of satisfactory completion certificate of contract of similar work shall be attached,if the completion certificates is from private organization the same shall be supported with TDS certificate/payment transaction details).

- (iii) "The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firm shall be rejected. The list of banned firms is available on BHEL website www.bhel.com".
- (iv) Valid ESI Code Number and P.F. Code Number
- (v) Valid GST registration number.
- (vi) PAN card. (In case not available, proof of having applied with acknowledgement from concerned authority).

GST: All the terms & conditions of the contract with respect to Taxes & Duties are subject to the new taxation laws introduced from time to time (e.g., GST). The terms & conditions will be modified in accordance with the provisions of new laws (e.g., GST).

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NOTES:-

1. Period of contract shall be as mentioned above.
2. Tenders are on two – part bid method (techno commercial bid and price bid).
5. The agencies are advised to visit the work site to understand the nature of work / quantum of work in its true perspective within the allotted time to avoid any misunderstanding.
6. The tender documents may also be submitted through speed post or by post to reach within the stipulated date and time.
7. **Tender bid without EMD and Tender cost as stipulated are liable for rejection.**
8. BHEL reserves the right to reject the tenders in part or in full without assigning any reasons.
11. A penalty of 0.5% of the gross value of work will be levied for every weeks delay in work subject to a maximum penalty of 10% of the gross value of work.
12. The DD's against Tender Cost and EMD are to be enclosed in technical bid cover.
13. Covers: Common cover for technical and price bid are to be submitted, super scribing the name of work and NIT number on each over.
14. Tender will be finalised on lowest cost to BHEL. Tenderers should quote their tender percentage in the price bid .Estimate rate / Excess / Less to estimate rate and the quoted percentage will be applicable for all the items. **Any conditional offer is not acceptable.**
15. All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirements, issued by IR section of personnel department.
16. All the BHEL General Conditions of the Contract is applicable, if required that can be collected from the office of Planning Township Administration.
17. Payment terms: - Every month after submission of bill by the contractor, as certified by Engineer-in-charge the bills will be released. Agency to raise invoice in inline with GST rules.
19. The agency shall carryout the Electrical works, if any, through Grade-A or Grade-B Electrical License holder.
20. L1 vendor will be evaluated on the basis of overall considered value.
21. Contractor shall provide the valid E mail id and all the communication made to that email id shall be treated as official correspondence. Offer without valid Email id will be treated as incomplete offer and will not be considered for tender evaluation.
22. Any clarifications sought from the contractors during the tender evaluation process, an email seeking clarifications and followed by two reminders through email will be sent with a response time of 2 days from the date of email and if no response is received from the contractor, it is treated as contractor does not possess required information sought and will be disqualified without any further notice. In cases where the contractor replies within the response time period of 2 days and seeks further extension of time, then BHEL reserves all its right to grant further time depending upon the reasonability of the case and all decisions taken by BHEL in this regard shall be final and binding on the contractor.
23. If any contractor is found that he had submitted fake certificate during our verification his offer shall be treated as disqualified without any further notice to contractor and suitable action as per the Guidelines for Suspension of Business Dealings with Suppliers/Contractors will be taken against the contractor.
24. Any additional documents (over those mentioned in NIT) may be sought by BHEL for clarifications in processing of the tender. The contractor has to submit all the concerned documents asked by BHEL within the stipulated time as mentioned in clause 22.
25. All the copies of certificates enclosed shall be attested by the contractor with seal.

TAXES AND DUTIES WRT GST

1. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.
2. In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied / leviable on BHEL.

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3. The bidder shall arrange to send to BHEL, Hyderabad along with all the required documents as in Purchase Order, Tax Invoice (Original for Recipient) along with his bills.
4. Vendor to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter / Intra state movement Supply of goods and services or both.
5. Taxes and duties prevalent on the contractual delivery date or the actual delivery date (in case of delay) whichever is lower shall be applicable paid. Composition Scheme to be addressed.
6. Vendor shall note that the Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services or both wherever applicable.
7. Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.
8. In case of any short supply of goods or service, Vendor has to raise a credit note for short supplied quantity as per GST provisions.
9. Any GST liability arising on BHEL under reverse charge before actual receipt of goods and or services and/or invoice thereof would be subject to recovery of interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of invoices and other conditions specified in GST law, as applicable.
10. Penalty clause: In the event of delay in supply of goods and or services beyond contractual delivery date, penalty of 0.5% per week or part there of shall be levied on the full contract value subject to a maximum of 10% of the order value. Penalty amount so determined along with GST if applicable thereon shall be recovered.
11. Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.
12. A declaration to the effect that all tax liability as per GST rules and regulations shall be discharged.

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2.1 INSTRUCTIONS TO TENDERER

- 2.1.1 Tender is a two part bid system. The tender documents consist of Part – A and Part – B as detailed below: Part 'A': Techno-commercial Bid , Part 'B': Price Bid Both to be submitted in sealed cover in a common cover as per Tender conditions and super scribed "Tender Enquiry No. HY/TA/OT-01/2017-18, Dated: 13.06.2017.
- 2.1.4 The Techno commercial Bid (Part - A) and general terms and conditions shall be attached to Techno-commercial offer with each page duly signed by the tenderer (at the bottom of each page) as a token of acceptance.
- 2.1.5 Part 'B' – the price Bid should not carry any conditions. Price / rate % should be quoted in clear terms in the format given by BHEL.
- 2.1.7 The tender forms both Part 'A' & 'B' duly filled in all respects shall be signed on each page by the tenderer. Any alteration, erasure or over-writing will render the tender invalid. Alteration neatly carried out and duly attested over with the full signature of the tenderer however is permitted.
- 2.1.8 The tenderer should submit the tender documents intact without detaching any page or pages.
- 2.1.9 The Name of the tenderer should be written or the contractor's seal to be put on the sealed envelope.
- 2.1.10 Before making the offer, the tenderers are advised to carefully go through the terms and conditions, which form part of the Agreement.
- 2.1.11 All entries in the tender document should be in one Ink. Corrections, over writing, cuttings etc. are not permitted. All the columns in the tender form should be filled without leaving any column blank in any page of the tender. In case any of the columns is left blank, the tender would be rejected.
- 2.1.12 The price/rate % should be quoted in figures as well as in words.
- 2.1.13 Each and every page of tender documents should be stamped & signed by the tenderer.
- 2.1.14 Tender documents consisting of Part 'A' & 'B' duly in common envelope should be deposited in the Vendor Complex, BHEL-RC Puram, Hyd-32 addressed to **AGM/TA, Ramachandrapuram, Hyderabad-32** so as to reach on or before **11:00 hrs** on **18.08.2017** he tender documents may also be sent either by registered post / Speed Post / Courier so as to reach on or before the said date and time. Techno-commercial and Price Bid will be opened on **18.08.2017 at 13:30 hrs**. The same day in the presence of tenderers or their representatives who are present for the tender opening.
- 2.1.15 For any further details required, **Sr. MANAGER/PLANNING-TA**, BHEL, RC Puram, Hyderabad-32 may be contacted in person or through Telephone Nos. **040-23182157/23183585**
- 2.1.16 BHEL reserves the right to assess the capacity and capability of the parties for pre-qualification. The company also reserves the right to accept or reject any or all the tenders or any part thereof at any stage of process without assigning any reason whatsoever. The company has no obligation to accept the lowest tender. Offer of the Tenderer if prima-facie found not comparable with the quantum of work envisaged and the bid is a desperate effort to be L1, then the offer is liable to be rejected. BHEL's decision in this regard shall be final and binding.

BHEL reserves the right to reject the tender of bidder, who committed default and having bad track record in execution of previous contracts in BHEL. For the purpose of this clause default and bad track record means violation of labour laws (such as non payment of wages within time, non payment of ESI,PF contribution , payment of bonus) and backing out from contract after reverse auction or after receipt of LOI / entering of agreement etc.,

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- 2.1.17 PRICE BID - The tenderers are required to submit their quotation for all the items listed in the Price Bid format given along with the tender documents. The price should be quoted for each activity after careful study of the actual job requirement so that, in case the contract is awarded, contractor should not express any difficulty in execution of the contract.
- 2.1.18 The Minimum Wages as per statute or BHEL FAIR WAGES revised (whichever is higher) from time to time are payable. The tenderer would be required to pay allowances/incentives as decided and communicated by BHEL.
- 2.1.19 VALIDITY OF RATES: The rates quoted should be valid for 120 days initially from the date of opening of the Techno-Commercial bid.

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2.1.22 DISCREPANCY IN WORDS & FIGURE QUOTED IN PRICE BIDS:

- i) If, in the price structure quoted for the required goods / services / works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (i) and (ii) above.

If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored

- 2.1.24 In case of quantity based work contracts, the tenderer should quote the rates against each item keeping in view the prevailing applicable Minimum wages / BHEL Fair Wages whichever is higher, statutory payments and other payments if any and other obligations as per the statutory provisions and amendments thereto and also as directed by BHEL from time to time.
- 2.1.25 BHEL reserves the right to award the contract to one or more contractors simultaneously as deemed fit at the initial stage or during the contract period.
- 2.1.26 BHEL reserves the right to reject any bid, which is technically unacceptable and unworkable. Further, BHEL also reserves the right to reject any or all tenders without assigning any reasons thereof.
- 2.1.27 BHEL reserves the right to cancel the contract at the initial stage or during the contract period without assigning any reason to the tenderer.
- 2.1.28 Wherever prescribed formats are specified for the tenderers use, he shall use the same for making his Claims.
- 2.1.29 Tender document should be complete in all respects.
- 2.1.30 Successful tenderers shall enter into an Agreement on stamp paper of Rs.200/- for having accepted the rates, terms and conditions of the contract as per the pro-forma given by BHEL.
- 2.1.31 The Offers should be in full conformity with the terms and conditions of this tender. No contra conditions are acceptable. Incorrect and incomplete tenders are liable to be rejected. Tenders not submitted in the prescribed forms will be rejected.
- 2.1.32 BHEL reserves the right to accept or reject any tender in part or full at their discretion without assigning any reason.
- 2.1.33 If a tenderer deliberately gives wrong information in his tender or creates conditions favourable for the acceptance of his tender, then BHEL reserves the right to reject such tender at any stage.
- 2.1.34 If the tenderer indulges in any unethical practice for securing the contract, the offer of such tenderer shall be rejected.
- 2.1.35 Any written communication required to be sent to the contractor in writing shall be sent at the address mentioned on the tender form or to any other address subsequently intimated by Contractor in writing to BHEL HPEP for the contract purposes or to his e-mail address.

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2.1.36 SITE VISIT:

- a. Before quoting, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevailing conditions, position of materials and labour related procedures & practices. They should be well versed with BHEL General Conditions of Contract, Instructions to tenderers, drawings wherever applicable and specifications and all other documents which form part of the agreement to be entered into subsequent to award of work. The tenderers shall specially note that it is the tenderer's responsibility to provide any item which is not specially mentioned in the specification or drawing, but which is necessary to complete the work
- b. The tenderer/Bidder and any of his authorized personnel or agents will be granted permission by the BHEL to enter upon its premises and lands for the purpose of site visit. However the bidder shall express condition that he, his personnel, and agents will be responsible against all liability in respect thereof, including death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- c. The Bidder should inform the BHEL at least **2** days (time may be fixed in consultation with tender issuing authority) in advance about the proposed site visit. The Bidder, at his own responsibility and risk is encouraged to visit, inspect and survey the Site and its surroundings and satisfy himself before submitting his bid as to the form and nature of the Site, the means of access to the Site, the accommodation he may require, etc.
- d. In general, Bidders shall themselves obtain all necessary information. A Bidder shall be deemed to have full knowledge of the Site, whether he inspects it or not and no extra claims due to any misunderstanding or otherwise shall be allowed. The cost of visiting the Site shall be at the Bidders' own expense. Any deviations of information in the report and the actual site will not be the responsibility of the BHEL

2.0 GENERAL TERMS AND CONDITIONS

- i) Contractor shall obtain Labour License (Central / State Government) before commencement of work as applicable.
- ii) In case Contractor engages labour from outside A.P. State to execute the said work, he is required to obtain licence under Inter State Migrant Workmen (RE&CS) Act 1979
- iii) BHEL reserves the right to split up the work into convenient portions and award them to different contractors.
- iv) The tenderer shall keep the contents of his tender and rates quoted by him to be kept confidential
- v) All expenses in preparation and submission of bids and visits to the office or any place in connection with the preparation of Bid shall be borne by Bidder. BHEL in no case shall be responsible or liable for these costs regardless of the outcome of the Bidding process
- vi) The bid prepared by the Bidder including all correspondence etc. relating to his offer/ bid shall be in ENGLISH language only.

3.1 ELIGIBILITY CRITERIA

- 3.1.1 In case the contractor is a Partnership Firm or a Company, the same should be a registered under the relevant Indian Partnership Act 1932 or Companies Act, 1956 and well established organization having at least three years existence in business consecutively for the past three years.

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- 3.1.2 The Successful tenderer has to get the license from central Labour Dept., (if applicable) under Contract Labour (Regulation & Abolition) Act 1970 for the areas and nature of work, which they will be performing as part of the contract.
- 3.1.3 Tenderer should have independent ESI Employer code under ESI Act 1948.
- 3.1.4 Tenderer should have independent PF code under Employee Provident Fund and Miscellaneous Provisions Act 1952.
- 3.1.5 Photocopy of letter from ESI Corp. and PF Commissioner's Office to establish that tenderer is independently registered as an employer under ESI and PF to be produced.
- 3.1.7 The tenderer shall also mention the PAN Number issued by Income Tax Department, copy of the PAN card or PAN number allotment letter shall be submitted along with the tender documents.
- 3.1.8 There should be no litigation or charge under investigation / enquiry / trial against the Tenderer, or conviction in a court of law or suspension or blacklisting by any organization on any ground. Tenderer shall confirm this in the Declaration. During the course of work, if any such information comes to light, the contract may be terminated.
- 3.1.9 The opinion / decision of BHEL regarding the bid shall be final and conclusive. BHEL reserves the right to reject any or all the bids at any time without assigning any reason.
- 3.1.10 In case the tenderer has a relative employed in BHEL, the authority inviting tender shall be informed of this fact in writing at the time of submission of tender, failing which the tender may be disqualified, or if such fact comes to light subsequently, the contract may be terminated.
- 3.1.11 For the works which are continuous in nature, and which require regular interaction and monitoring, the contractor shall have an Office/Establishment in Hyderabad. Absence of such an arrangement may lead to disqualification of the Tenderer.
- 3.2 **EARNEST MONEY DEPOSIT:**
- 3.2.1 An amount of **Rs.43,200.00** towards EMD shall be paid in cash at BHEL cash office or by Demand Draft/Banker's cheque drawn on any nationalized bank / scheduled bank in the name of "Bharat Heavy Electricals Limited" payable at Hyderabad and shall be enclosed to the tender bid. No other means of payment shall be accepted. EMD / any money due to the tender by BHEL shall not carry any interest.
- 3.2.2 Tenders received without EMD as specified above shall be rejected. If EMD accompanies price bid, such bids shall not be considered and will be rejected. No adjustment of EMD shall be made with EMD submitted earlier with other tenders of BHEL or any outstanding amount. If EMD is not in line with amount called for, the EMD as well as the quotations will be returned and unopened to the tenderers.
- 3.2.3 EMD of unsuccessful bidders shall be returned promptly upon award of Contract and EMD of successful bidder will be returned upon the bidder's accepting the contract and furnishing the requisite security deposit.
- 3.2.4 EMD may be forfeited 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 BHEL
- 3.2.5 The EMD will be forfeited if the accepted tender is withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, proportionate amount of EMD will be retained.
- 3.2.6 The Contractors who are having one time EMD certificate shall submit copy of the certificate towards exemption for payment of EMD for the work.

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3.3 SECURITY DEPOSIT

3.3.1 Upon acceptance of his tender bid, the successful tenderer must deposit Security Deposit within the time specified in the letter of intent. Security Deposit should be collected from the successful tenderer. The rate of Security Deposit will be as below:

Total amount of Security Deposit will be 5% of the Contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.

3.3.2 The successful tenderer on receipt of letter of intent can convey his acceptance in writing for conversion of EMD into security deposit.

3.3.3 If the work is awarded, the agency has to pay 50% of SD in advance on contract value before commencement of work after adjusting of EMD amount.

3.3.4 Security Deposit may be furnished in any one of the following forms.

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL
- iii) Local cheques of scheduled banks, subject to realization.
- iv) Securities available from India Post such as National savings Certificates, Kisan Vikas Patras etc.
- v) Bank Guarantee from scheduled Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL
- vi) 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.
- vii) Security Deposit can also be recovered at the rate 10% from the running bills. However in such cases at least 50% of the Security Deposit should be deposited before start of the work and the balance 50% will be recovered from the running bills.
- viii) EMD of the successful tenderer shall be converted and adjusted against the security deposit.

Note: Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be adjusted to hypothecation or endorsement on the documents 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.

3.3.5 Failure by the successful tenderer/bidder to deposit the security deposit amount as mentioned above within the stipulated time, which will include any extension that may be granted by the authorities, will render his earnest money deposit liable to forfeiture and his tender shall be consider as withdrawn. Security Deposit shall not be refundable to the contractor except in accordance with the terms of the contract.

3.3.6 The Security Deposit will be released along with the final bill or after completion of maintenance period for the work, whichever will be later, subject to the condition that nothing is outstanding against the Contractor.

3.4 STATUTORY REQUIREMENTS:

3.4.1 While quoting the rate, the tenderers are advised to take note of minimum wages / BHEL Fair Wages / Central Govt., / State Govt., (whichever is higher) payable to workmen.

3.4.2 The tenderer will be required to comply with all the statutory provisions such as Bonus (% as prevailing in BHEL RC Puram), PF (12%), EDLI (0.5%), ESI, Gratuity, GST and other applicable taxes, BHEL Fair Wages prevailing at the time of payment or arrears thereof, declared Holidays, leave, AP Labour Welfare Fund etc. The contractor shall submit the documentary evidence of payment on account of submission of statutory payments made to the concerned agencies every month and same may be submitted for clearance of bill.

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- 3.4.3 The tenderer shall comply with the provisions of the Factories Act 1948, Contract Labour (Regulation and Abolition) Act 1970, ESI Act 1948, Employees Provident Fund and Miscellaneous Provisions Act 1952, Minimum Wages Act 1948, Payment of Gratuity Act 1972, Industrial Disputes Act, 1947, Payment of Bonus Act 1965, Employers Liability Act 1938, Inter State Migrants Workmen (Regulation of employment and conditions of Service) Act 1979 AP Labour Welfare Fund Act, and or any other Laws and Rules that may be applicable from time to time to the workers engaged by him. The tenderer, when required by the Company shall produce the registers and records for verification and comply with other directions issued by the company for compliance of the statutory provisions.
- 3.4.4 The tenderer shall fully indemnify the loss if any caused to BHEL due to any default or non-observance of any of the laws, or any omission or commission or inability on the part of the Tenderer or his representative.
- 3.4.5 The tenderer shall, keep and produce for inspection at all times, forms, registers and other records required to be maintained under various statutes in order to enable scrutiny by the Company whenever required.
- 3.4.6 The tenderer shall produce to the Company, the documentary proof of payment of the said statutory dues. Non-observance of the provisions will be construed as default by the Tenderer in making such payment, and payment of his bill will be deferred despite other legal action.
- 3.4.7 The Income tax as applicable will be deducted from the bill of the contractor.
- 3.4.8 Each tenderer will be required to maintain the daily attendance of his labours in the prescribed Pro-forma for accounting payment of wages, deduction towards ESI & PF Contributions, payment of Bonus, leave etc.
- 3.4.9 The tenderer will have to follow the provisions of Payment of Bonus Act 1965 and Rules 1975, and is liable to pay Bonus to his workers. *If applicable.*
- 3.4.10 The tenderer will have to extend paid National Holidays and Festival Holidays to their workmen as per BHEL RC Puram direction or as per the provisions of the relevant Act and the Rules thereof. However, if due to exigencies of work the contractor engages his workmen on National Holidays or Festival Holidays contractor shall pay additional wages as prescribed under the provisions of the Act.
- 3.5 **MANPOWER:**
- 3.5.1 The Contractor shall provide the required manpower for executing the contracted work. The contractor shall not engage a person who is less than 18 years of age.
- 3.5.2 The contractor shall be responsible for safety of his workers while they are engaged for work connected with the contract. The Contractor shall be responsible for the appropriate usage of the Uniform and PPE's by their workmen.
- 3.5.3 The contractor, as the employer of his workmen, shall manage them. In the event of any dispute arising between the Tenderer and his employees, the Tenderer alone is solely responsible for resolving the dispute between them and BHEL will in no way be responsible for settling the dispute either statutory or otherwise.
- 3.5.4 The contractor will be solely responsible for executing the agreed work and the employees of BHEL will only oversee the proper execution of work. The contractor or his representatives shall be available in the factory to control and supervise his workers and take down instructions from the designated officials of BHEL. The cost of deployment of Supervisor has to be borne by the Contractor.
- 3.5.5 The contractor shall have full control over his workmen w.r.t determining service conditions, discharge, dismiss, or otherwise terminate their services at any time. The contractor shall be solely

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responsible for any claim arising out of employment or termination of employment of his employees and for statutory payments.

- 3.5.6 The contractor shall employ only such personnel who are medically fit. The company has right to direct the contractor to remove from the premises such of his personnel who may be physically, hygienically, clinically or medically unfit.
- 3.5.7 The contractor shall employ only such personnel who have not been found unfit for employment in Organizations such as Central/State/Public Undertakings by the Police authorities. Persons against whom criminal cases are pending or under investigation and persons found guilty of offences involving moral turpitude shall not be engaged for executing work.
- 3.5.8 The Contractor shall comply with all the operational rules and regulations, including safety and security rules framed by the company from time to time wherein the Contractor or his workmen happen to be operating / working. In the event of any of the workmen of the contractor violating any of the said rules and regulations, the Contractor would be required to remove forthwith such workmen from the company's premises.
- 3.5.9 Out of total manpower to be deployed the Contractor shall to the extent possible to deploy 15% scheduled castes and 7.5% of scheduled tribe community.

3.5. A. SAFETY:

- (i) All safety equipment such as safety belts, helmets & other equipment (as required for this work) are to be positioned by the contractor & used as per requirement.
- (ii) Any casualty or damage caused to the property or person by any untoward incidents while executing this contract will be at the contractor's risk & cost.
- (iii) Violation of applicable safety, health & environment related norms, a penalty of ₹5,000.00(Rupees Five thousand) per occasion shall be imposed.
- (iv) Violation as above resulting in any physical injury a penalty of 0.5% of the contract value shall be imposed (maximum of ₹20,000.00) per injury in addition to ₹5,000.00 as mentioned above.
- (v) In case of fatal accidents, a penalty of 1% of the contract value (maximum of ₹10,00,000.00(Rupees Ten lakhs) per fatality in addition to ₹5,000.00 as mentioned above.

3.6 PERIOD OF CONTRACT:

- i) The contract shall be for a period of **12 months**.
- ii) BHEL is at liberty to terminate the Agreement by giving 30 days notice in writing.
- iii) **Extension:** Based on the satisfactory performance of the agency in the first year, the contract may further extended for second year with same rates, terms and conditions on mutual consent of agency and BHEL.

3.7 FAILURE TO COMPLY WITH CONTRACT:

- i) Notwithstanding anything contained in any other clause, BHEL reserves the right to terminate the contract due to any failure on the part of the Tenderer in discharging his obligations under the contract or in the event of his becoming insolvent or going into liquidation. The decision of the BHEL about the failure on the part of the Tenderer shall be final and binding on the tenderer.
- ii) In case of any damage to the existing building, structures, materials, tools, furniture and fixtures, machines etc., caused from contractor's end directly or indirectly, the cost of its repairs or replacement will be recovered from the contractor. If there is any work stoppage in any area of the Plant due to the fault of the contractor, the contractor is liable to compensate the same.
- iii) In the event of any failure on the part of the tenderer, BHEL shall have the right without prejudice to any other right or remedies, to get the work done through any other agency and the Tenderer shall be liable to compensate BHEL for any losses on this account. The additional cost, loss, if any incurred by BHEL will be recovered from the bills, security deposits, other dues, directly from the Tenderer or by initiating appropriate legal action.

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3.8 PAYMENT TO THE CONTRACTOR:

- i. Normally, the periodicity of payment to the contractor shall be on a calendar month basis. The Contractor shall raise the bill for payment as per the contractual terms & conditions mentioned in the contract, which should be duly certified by the BHEL official in charge of the contracted work.

In certain cases due to direct association of work with customer project, payment is made after completion of work. In such cases same will be specified in the NIT/enquiry and the agreement entered into post award of job.

The Contractor shall raise the bill for payment as per the contractual terms and conditions mentioned in the contract, duly supported by attendance sheet for all the contract labours capturing therein for each of the Contract labour total time engaged during each day on the job and the same to be duly certified by the BHEL official in charge of the contracted work.

Contract is to be expressed both in terms of required categories of labour and number of labours against each category to ensure that the contractor discharges all the contractual and statutory obligations in respect of labours engaged on the job. At the same time required output in terms of units, tonnage etc. is also to be stated to correlate achieved output vis-à-vis desired output.

Following conditions shall be adhered strict during the contract period:

- a. In case there is fall in the achieved output vis-à-vis desired output, contractor is to be warned in two spells.
 - b. If the unsatisfactory performance repeats, contract is liable to be short closed.
- ii. The Contractor shall initially pay the wages, and other statutory payments etc., with in the specified time, related to his workmen and then claim bills from BHEL. The contractors would be required to submit their Claims along with the proof of payment of wages, PF, ESI etc., to the respective Departments. The claims will be scrutinized and certified for payment by the respective department and forwarded to Accounts Department along with HR/IR clearance certificate for effecting payment.
 - iii. The Contractor shall provide two pairs of Uniform to each of his workmen along with stitching charges and catering cap as specified by BHEL.
 - iv. The contractor shall pay bonus to all his workmen as per the applicable provisions of the payment of Bonus Act 1965 and its rules **if applicable** for contract period
 - v. The contractor shall provide Personal Protective Equipment including one pair per year safety shoe of standard specified by BHEL safety department and two pair socks to all his workmen during the contract period.

The contractor shall provide Personal Protective Equipment including one pair per year safety shoe of standard specified by BHEL safety department and two pair socks to all his workmen during the contract period.

3.9 SUB-CONTRACTING:

The contractor shall not sub-contract or transfer or assign the contract in full or any part thereof to any other person, firm, or company without the previous express written approval of BHEL.

3.10 LAWS GOVERNING THE CONTRACT:

- i. The contract will be governed by the Laws of India for the time being in force and as amended or made from time to time.
- ii. All disputes shall be settled in accordance with the Laws of India for the time being in force and as amended from time to time.

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- iii. All disputes arising out of or in relation to this contract or Agreement shall be settled by mutual discussions through Conciliation and in the event of failure of conciliation, such disputes shall be referred to Arbitration in accordance with the provisions of Arbitration and Conciliation Act, 1996.

3.11 LEGAL JURISDICTION:

- i) In respect of all matters arising out of or pertaining to the contract, the cause of action thereof shall be deemed to have arisen only at RC Puram, Hyderabad, where BHEL - HPEP is situated. All legal proceedings pertaining to the above matters or dispute shall be instituted only in courts having territorial jurisdiction over the place where BHEL-HPEP is situated and no other court shall have the jurisdiction.

4.0 DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:

- 4.1 The duties, responsibilities and obligations of the contractor including statutory responsibilities mentioned in this document are indicative and not exhaustive. Contractors are required to confirm with the concerned authorities for proper and complete compliance.
- 4.2 The contractor will abide by the provisions of Child Labour (Prohibition & Regulation) Rules 1988. He should issue appropriate Appointment Letter to his Workmen.
- 4.3 The following documents / forms under Contract Labour (Regulation & Abolition) Act 1970 and relevant rules therein shall be maintained by the contractor:
- (i) A notice showing the wage period and date of disbursement of wages to be displayed at the place of work and a copy sent by the contractor to the HR Department (Rule 75).
 - (ii) A register of workmen Form XIII (Rule 75)
 - (iii) Employment card Form XIV (Rule 76)
 - (iv) Service Certificate Form XV (Rule 77)
 - (v) Muster Roll, Wage Register, Deductions Register, overtime Register Etc.
 - (vi) Half yearly return to be sent (In duplicate) by the contractor to the licensing officer. Form – XXIV (Rule 82 (I)) with a copy to HRM Department regularly.
 - (vii) All statutory registers and records shall be preserved in original for a period of Ten years and should be made available even after the contract is over for verification.
- 4.4 The contractor shall comply with the provisions of Contract Labour (R & A) Act 1970 including provisions relating to welfare and Health facilities as provided under the Contract Labour (R& A) Act 1970 and relevant rules.
- 4.5 All the Contractors shall submit the half yearly / yearly returns to Regional Labour Commissioner (Central), Hyderabad or appropriate authority as required under contract Labour (Regulation & Abolition) Act 1970 and forward a copy to HR Department.
- 4.6 BHEL, HPEP, RC PURAM – Hyderabad is a Notified Area under the provisions for ESI Act 1948. The contractor shall comply with the provisions of ESI Act, and will be responsible for any liability arising during the tenure of the work contract under the Act. The contractor should ensure ESI coverage and facilities to his workers (i.e. ESI code no. and ESI card etc.) as per ESI Scheme from ESI authorities including Medical Benefit etc.. The contractor shall arrange for filing of family declaration forms in respect of their contract labours and deposit the same in ESI office for issue of Identity card by ESI authorities. The contractor may deduct required ESI contribution from the wages of their employees as per law and deposit the same (Employees share) along with his contribution to the ESI authorities.
- 4.7 Workmen insured under ESI Act only shall be deployed in contract work. For the Persons not covered under the provisions of ESI Act, the contractor shall take required insurance under Employees Compensation Act 1923 with medical benefit.

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- 4.8 The tenderer shall submit bi-annual return in Form 6 along with monthly Challans to the appropriate authority under the provisions of Employee's State Insurance Act 1948, under intimation to HR Dept.
- 4.9 Notwithstanding anything contrary to this, in the event of accident, the contractor shall be required to submit accident / injury report to the concerned authorities with a copy of the same to the designated BHEL Executive immediately and ensure the compliance of the ESI Act and rules made therein.
- 4.10 The tenderer shall submit the following returns to the appropriate authority under the provisions of Employee's Provident Fund and Misc. Provisions Act 1952, Employees Pension Scheme 1995 under intimation to HR Dept.
- (i) Monthly return in Form 12 A along with form 5 & 10 (addition and deletion) and monthly Challan or any other form as modified by PF authorities
 - (ii) Annual Return in Form 6A along with Form 3A. (till this procedure is discontinued by the PF authorities)
- 4.11 The Contractor shall maintain the following records as required under the Employees Provident Fund And Miscellaneous Provisions Act 1952, Employee's Pension Scheme 1995:
- Declaration of Nomination, Form No.2 Para 33 and 61 (1).
 - Attendance.
 - Wage Register.
 - Any other documents / registers as required
- 4.12 The contractor shall regularly on or before prescribed date of every month pay the amount of contribution (employer's contribution as well as the employee's contribution) as per the Employee's Provident Fund and Miscellaneous Provisions Act 1952, Employees Pension Scheme 1995 and Employee's State Insurance Act 1948
- i. The contractor may recover from his workmen, the employee's contribution in accordance with the provisions of the said act and the Scheme but shall not recover the employer's contribution or the other charges from his employees in any manner.
 - ii. The contractor shall submit along with monthly bills to BHEL, statement showing the recoveries of contributions in respect of employees employed by or through him along with the proof of Deposit of such contribution with the Concerned Authority and shall also furnish to BHEL such information, in the capacity of principal Employer, as required to be furnished under the provisions of the schemes under the Employees P.F. and Misc. Provisions Act 1952 and ESI Act, 1948 to the authorities under the said Acts.
 - iii. The Contractor shall arrange for his own P.F. and ESI Code Number from the PF and ESI authorities respectively. The expenditure incurred by the contractor towards payment of the Employers Contribution and PF Administrative charges is already included in the estimated price of BHEL.
- 4.13 In case of revision of Wage/DA by appropriate Government or by BHEL after the award of work, BHEL will bear the difference of increase during the currency of the Contract. Any failure to comply with the statutory requirements on the part of contractor shall disqualify such contractor from all contracts awarded to him and his name shall be black-listed for further tenders / contracts. In addition, the Contractor's security deposit shall be forfeited apart from consequential legal action against him.
- 4.14 The contractor shall maintain Form D as per Rule 5 of the Payment of Bonus Act, 1965 **if applicable**. The contractor is further liable to pay bonus to his employees in accordance with the payment of Bonus Act 1965 **if applicable**.

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- 4.15 The contractor will be required to contribute towards gratuity payment of his employees (contract workers) required as per Payment of Gratuity Act. He will also be responsible to pay retrenchment compensation under the Act. In case of short closing of contract by either side, the Contractor shall settle all dues payable to workmen including Bonus on last working day.
- 4.16 In case the contractor employs women, he will discharge his obligation under law in respect of such women workers such as prohibition of engaging them during night hours, prohibition of employing them more than 9 hours per day, provision of crèche facility, grant of maternity leave as per rules etc.
- 4.17 The Wage period for the Workmen of Contractors engaged on long contracts shall be Calendar Month and the contractor shall be responsible for making payment of wages within 7 days of the closure of the wage month (on 07th day of the calendar month following the wage month) The disbursement shall be preponed to the 6th day, if the 7th day happens to be a holiday. The Contractor would be required to open an Account for Electronic Fund Transfer (EFT) of his Bills/Claims from BHEL as well as EFT of wages/OT/other payments of his workmen from his Bank Account to the Bank Accounts of his workmen so that risks associated with cash transactions can be avoided.
- 4.18 The Contractor shall be required to issue monthly Wage slips /OT Slips to their workmen. Further, the Contractors claims are to be accompanied by a Certificate from BHEL Official certifying that "the Wage /OT Slips for the previous month/current month have been issued by the contractor to all their workmen". Further, the contractor would be required to issue Annual PF Statement from the PF Authorities for all his workmen engaged in BHEL HPEP, RC PURAM, HYD -32 before submitting Claim for refund of Security Deposit for the respective years.
- 4.19 In case contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities, the Security deposit / other dues payable under the contract can be utilized by BHEL to discharge the liability of the contractor.
- 4.20 The workmen of the contractors shall wear uniform while attending duty in BHEL campus. The uniform shall be provided by Contractor to his workmen. The Contractor/his authorized representative shall ensure wearing of the Uniform by his workmen in the BHEL premises.
- 4.21 The liability for compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor.
- 4.22 NATIONAL & FESTIVAL HOLIDAYS (as declared by BHEL): The contractor will give paid National Holidays and Festival Holidays to the workers as per Section 5 of National and Festival Holidays Act. However, if due to the exigency of work if any of his workmen is required to work on National Holiday or Festival Holiday, the contractor has to pay wages as per Section 5, sub section 2 and 3 of the said Act.
- 4.23 Besides the four national holidays i.e. 15th August, 26th January, 2nd October and 1st May (May Day) if Govt. declares any other day as a national holiday same will be treated as paid holiday for the purpose of this contract. Accordingly the contractor shall be required to provide paid holiday to its workers for the same. If any of the contract worker works on such additional declared national holiday, he will be entitled to additional wage for the said day.
- 4.24 In addition to the above holidays mentioned at Clause 4.22, in the event the Central / State Government declares any other holiday/s and if such Holiday/s is/are applicable to BHEL, RC Puram, Hyderabad also, then the tenderer/contractor shall extend paid Holiday/s to his workmen. The tenderer shall take into account all such occasions while quoting in the tender.
- 4.25 GENERAL ELECTIONS: If the general elections are held for State Assembly / Parliament and Government declares a public holiday for exercising the franchise, the contractor shall give their workmen half day leave in "First" shift only. The contractor's workmen working in "Second" and "Night" shifts will be required to exercise their franchise during their own time.

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- 4.26 The Contractor shall maintain the following Documents, Registers, Forms as required under the FACTORIES Act 1948 and Rules 1950 thereof:
- | | | |
|------|----------------|-------------|
| (I) | Leave Register | Form No. 15 |
| (II) | Nomination | Form No. 25 |
- 4.27 The contractor will extend leave with wage to his workers @ of one day for every 20 days work. To facilitate the proper execution of the Factories Act, these leaves shall be allowed during the same calendar year. The contractor will pay the un-availed portion of leave in cash along with monthly wages / at the end of Contract period.
- 4.28 Contractor has to ensure that all his workmen are granted one day weekly off after every 48 hrs. of working. The workmen working for more than 48 hours in any week shall be paid wages twice the ordinary rate of wage in accordance with the provisions of Section 59 of the Factories Act, 1948 read with the A.P Factories Rules 1950.
- 4.29 The contractor shall follow safety rules and regulations as per provisions of Factories Act 1948, and Rules at his own expense and arrange for the safety provisions as appended to these conditions or rules framed by the government from time to time.
- 4.30 A **Refund of Security Deposit:** Security Deposit of contractor will be refunded only after the expiry of the contract period and based on the certification of successful completion of the contract and payment of PF, ESI and applicable statutory dues by the concerned Officials / department and submission of an Undertaking from the contractor, that in case of Claims from any of the statutory authorities, the same would be indemnified by the Contractor.
- 4.31 The Contractor shall be required to deposit GST as applicable as assessed by Central Excise Authority (GST cell) Hyderabad before 15th of the following month, if same is applicable as per rules in force from time to time. The amount so spent can be claimed from BHEL after submitting the proof of the same.
- 4.32 Contractor shall inform his PAN to BHEL. Income tax as applicable will be deducted at source by BHEL from the bills of contractor.
- 4.33 All the Registers and Records, forms, Notices maintained under the relevant Acts and Rules should be produced on demand before the Inspector or any other authority under the Act, failing which the contract may be terminated without any notice.
- 4.34 Contractor shall be required to submit a list of his workers to be deployed for the works contract giving details regarding Name of contract worker, Fathers Name, permanent and Present Address, Date of Birth, Qualification, Caste-SC/ST/OBC, ESI No, PF No. and the family details.
- 4.35 The contractor shall abide by all the labour legislations and other laws including the provisions of Contract Labour (Regulation & Abolition) Act, 1970, the Factories Act, 1948, the Payment of Wages Act, 1936, the Minimum Wages Act, 1948, ESI Act, 1948, Employee Provident Fund Act, 1952, AP Labour Welfare Fund Act, Payment of Bonus Act 1965, Payment of Gratuity Act 1972, and other relevant Acts applicable to his workmen under this Contract.
- 4.36 BHEL shall be indemnified against all losses, Claims, prosecutions etc. under any law.
- 4.37 The contractor shall promptly furnish all information and document required by BHEL authorities for the purpose of complying with the responsibilities of Occupier of the factory and shall render all the necessary assistance for the same.
- 4.38 The contractor will maintain proper discipline of his workmen and will ensure that his workers do not cause any loss or theft or damage to any company's property. The contractor will also be responsible for the good conduct of his workmen.

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- 4.39 The contractor shall ensure and maintain uninterrupted progress of the work in accordance with instructions given to him on behalf of BHEL from time to time.
- 4.40 In case the contractor makes default in commencing the work within the time specified by BHEL without any reasonable cause, disputes any of the terms and conditions of the contract or refuses to execute the contract or any part thereof at any stage, the contract shall, without prejudice to any other right or remedies available to BHEL, be liable to be cancelled / terminated in part or in whole. In the event of such cancellation / termination of contract, the contractor shall be liable; to compensate BHEL for all losses incurred by BHEL including the loss suffered on account of having the work executed through any other contractor or department as may be convenient to BHEL, in accordance with the exigencies of the work. In case only a part of the contract is cancelled, the remaining portion of contract may be allowed be executed by the contractor.
- 4.41 The Contractor shall without fail give up-to-date information in writing of the attendance of the workers engaged by him. The Contractor will also submit the required documents and certificates as prescribed from time to time for the clearance and the payment of the Bill.
- 4.42 Whenever any sum of money is found to be recoverable from or payable by the contractor, the same will be deducted from any sum that may due or which at any time there after becomes due to the contractor under this contract or under any other contract or from his security deposit. In case the recoveries are not complete even after such deduction, the contractor shall pay the same or the balance thereof from the security deposit. The contractor shall immediately thereafter pay such further sums as may be required to replenish the shortage caused by such recoveries in the amount of security deposit.
- 4.43 During the currency of contract, if the contractor is awarded any other job work contract in BHEL, the contractor will have to inform the designated BHEL official before accepting the other work.
- 4.44 In case of failure on the part of the contractor to execute the work awarded to him within the stipulated time, the sum equivalent to the EMD as per BHEL Works Policy shall be forfeited as per the Undertaking provided by tenderers, after a week's notice issued by the awarding officer and BHEL may in its discretion award the contract to any other party.
- 4.45 In case of any extra work executed by the contractor, the contractor will be paid on pro-rata basis.
- 4.46 All the Terms and Conditions as mentioned in Work Order will also form a part of the Agreement.
- 4.47 BHEL shall have the right to deduct any sum from the bill of the contractor for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract, Non- payment of wages or of deduction made from his or their wages which are not justified by the terms of the contract or non-observance of the said contract Labour regulations.
- 4.48 The contractor shall be responsible for observance of local laws, employment of personnel, payment of taxes etc. As far as possible, workers shall be engaged from the local areas in which the work is being executed.
- 4.49 The contractor shall be wholly responsible for the behaviour of the workmen at the work place and outside, in the BHEL premises.
- 4.50 The contractor shall be responsible for safe custody of BHEL's property like materials, tools etc., entrusted to him and if necessary arrange insurance at his own expense.
- 4.51 The contractor shall be responsible to make good and rectify at his own expense any defect, which may develop or may be noticed within the period of the contract.
- 4.52 BHEL shall be entitled to recover any payment made on behalf of the contractor under any law or Otherwise.

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- 4.53 BHEL Officer In-charge shall have the right to stop the work at any stage or at any time by giving the contractor seven days' notice in writing.
- 1.54 **ARBITRATION:** All disputes arising in connection with the contract shall be settled by mutual consultation. If no agreement is reached the dispute shall be settled in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the rules made there under. The dispute shall be referred for arbitration to any arbitrator to be appointed by the Head of the Unit/his nominee as per the extant rules of the Company read with the provisions of The Arbitration and Conciliation Act, 1996 and amendments thereto. The award of the arbitrator shall be final and binding on both the Parties. The venue of the Arbitration shall be Hyderabad in India. The Award to be given by the Arbitrator/Arbitral Tribunal shall be a speaking award. All questions, disputes, differences arising under, out of or in connection with this contract shall be to the exclusive jurisdiction of Sangareddy Courts.
- 4.55 The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

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SCHEDULE 'A'**Contract period: 12 months****CONTRACT WORK DESCRIPTION: "Operation & Maintenance of 2 X 4 MLD Sewage Treatment Plant for Factory and Township of BHEL R C Puram Unit".**

| SL NO | DESCRIPTION | QTY | UNIT |
|-------|--|-----|------------|
| 1 | Operation and Maintenance (O&M) of 2 x 4 MLD capacity Sewage Treatment Plant at BHEL Township, RC PURAM in round the clock shifts to treat the sewage from Township. The scope covers deputing qualified and experienced operator for shift operation of the plant. The operator is required to monitor proper functioning of all the equipment and the system in total for effective performance of the plant for better results. The scope includes operation of the equipment's, attending to minor defects then and there, cleaning and lubricating the rotating parts periodically, maintaining the electrical systems such as panel board etc., dosing chemicals as directed by BHEL, collecting & testing feed and permeate samples, maintaining the log book for all the activities. Agency required to follow the operation & maintenance procedure given by OEM without failure. Required number of operators are to be made available for shifts operation. Also a 'reliever operator' shall work in shifts and a supervisor shall work in general shift. (Agency to engage manpower as per the enclose) | 12 | Operations |

Special Notes:

- 1) One Operation means operating and maintenance of STP 2 x4 MLD for a period of ONE month.
- 2) All the required Chemicals will be free issue at BHEL Stores.
- 3) All the necessary safety equipment to be provided by the agency.
- 4) Sludge disposal within 04 kms range as directed by Engineer-in-charge.
- 5) Agency to deploy qualified man power as per the Annexure.
- 6) Agency to carry out sampling and analysis as per the Annexure.
- 7) Agency to maintain records as per the Annexure.
- 8) Agency should arrange required lubricants/greese for rotating equipments for the maintenance of STP.

Important note:-

All the terms & conditions of the contract with respect to Taxes & Duties are subject to the new taxation laws introduced from time to time (e.g., GST). The terms & conditions will be modified in accordance with the provisions of new laws (e.g., GST).

For detailed scope of work, Please refer Special Terms and Conditions of the Contract and Annexure A, B, C and Schedule of work.

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6-A TECHNO-COMMERCIAL BID APPLICATION

To,

Bharat Heavy Electricals Limited
H.P.E.P., RC PURAM,
HYDEDRABAD-32

Dear Sir,

I / We hereby offer to carry out the work '-----' against Tender Enquiry No. -----

I /We have carefully perused the following documents connected with the above mentioned work and agree to abide with the same.

- | | | | |
|-----|-------------------------------|---|------------|
| 1. | Notice Inviting Tender | } | (Part – A) |
| 2. | Bid Application | | |
| 3. | Bid Questionnaire-A | | |
| 4. | Bid Questionnaire-B | | |
| 5. | Declaration by Tenderer | | |
| 6. | Instructions to tenderer | | |
| 7. | General terms and conditions | | |
| 8. | Specific terms and conditions | | |
| 9. | Evaluation of price bid | | |
| 10. | Scope of Work & Schedule-A | | |
| 11. | Price Bid Format | | (Part – B) |

I/ We further agree to execute all the works referred to in the said documents as per the General terms and conditions.

I am /We are in possession of independent PF/ESI Code.

I/We undertake to obtain applicable the PF/ESI coverage of all our workmen to be deployed for the above work and also agree for recovery of appropriate PF/ESI contribution from wages/bills

Strike out which is not applicable

Signature of Tenderer

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY

PART - A**TECHNICAL BID - I**

Tender Enquiry No. :

Date:

Details of the Contractor:

- a) Name and address of the Firm:
- b) Name and address of the proprietor:
- c) Is any contract being operated under the Control of the tenderer in BHEL. Yes / No
(If yes furnish the details) :

| | <u>Location/ Address</u> | <u>Value</u> | <u>Date of Completion</u> |
|----|--------------------------|--------------|---------------------------|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |

- d) Is any relative of tenderer Employed in BHEL Yes / No

(If yes, furnish the detail)

| Name | Staff no | Location / Area |
|------|----------|-----------------|
| | | |

Signature of the Tenderer

Date:

SIGNATURE OF TENDERER**ACCEPTING AUTHORITY**

TECHNICAL BID - II

| | | |
|----|--|----------|
| 01 | ESI Code No. (enclose copy of ESI code allotment letter of ESI authority) | |
| 02 | PAN card. | |
| 03 | PF Code No. (enclose copy of PF code allotment letter of EPF authority) | |
| 04 | GST registration no: | |
| 05 | Banker's Name & Address | |
| 06 | Bank A/C No. & Branch | |
| 07 | Bankers Solvency Certificate | YES / NO |
| 08 | Have you quoted rates for all the activities, as indicated in the price bid (Part – B) | YES / NO |
| 09 | Financial Turnover for preceeding three years duly certified by qualified Chartered Accountant: | |
| 10 | Any other comments | |
| 11 | Name of the Contractor Full Address Contractor's code No Contact person Phone , Fax Mobile Nos. Email ID | |
| 12 | Details of DD/Cash receipt a) D.D or Cash receipt Nos. for EMD b) DD/Cash receipt Nos. for cost of tender documents. (DD/C. Rs has to be enclosed along with this bid). | |

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| | | |
|----|--|--|
| 13 | Contact Person name in case conducting Reverse Auction : Phone , Fax Mobile Nos. Email ID | |
| 14 | National Electronic Fund Transfer (NEFT) from to be submitted if new contractor to BHEL. | |

Note:

- I. Photocopy in support of above wherever applicable should be attached.
- II. Please note that if answer of Sl No.01, 03, 08 or 09 is not available or 'No' then the bid is liable to be rejected.

Signature of the Tenderer
Date:

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY

6B) SPECIAL TERMS & CONDITIONS OF CONTRACT

- i. The quantity of raw materials drawn, if any from the Stores and balance unused should be accounted and returned to the Stores.
- ii. Ensure cleanliness of the preparation area/work spot before and after the work on daily basis.
- iii. The quantity will be counted, measured and weighed and certified by the authorized persons.
- iv. In case of delay of payment of wages to the contract labour by the contractor, for more than a week, the contract executing officer will initiate action for payment of wages directly from BHEL side and recover the same from the payments due to the contractor along with penalty as decided by the respective product head. In case, the contractor default/fail to pay wages to the contract labour repeatedly (more than once) the contract executing officer shall take action for payment of wages directly by BHEL and contract may be short closed despite blacklisting/banning the said contractor from participating in the future bidding/tendering in BHEL.
- v. **Experience Certificate:** On completion of contract, the contractor will be issued an experience certificate on the total performance of the contractor such as technical competency, implementation of statutory provisions in time, such as payment of wages to the worker, payment of PF contribution, Payment of ESI contribution, Payment of bonus, issue of PPE, uniform cloth, safety shoe etc., based on which the contractors future bid if any in BHEL will be evaluated.

EVALUATION OF PRICE BID:

- i. A single rate must be quoted for each category mentioned in the price bid Proforma as the job would be awarded to one or more successful tenderer.
- ii. Evaluation of the L-1 offer shall be computed on overall lowest cost to BHEL basis. (Grand Total Price for all the items indicated above minus tax credit, if, any)
- iii. Contractor shall take total care to educate himself to know the prevailing wages payable to contract labour in BHEL RC puram and quote rates taking into account all aspects of contract.

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6C) PROFORMA FOR PRICE BID :- (Un-priced)

| SL NO | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|-------|---|-----|------------|------|--------|
| 1 | Operation and Maintenance (O&M) of 2 x 4 MLD capacity Sewage Treatment Plant at BHEL Township, RC PURAM in round the clock shifts to treat the sewage from Township. The scope covers deputing qualified and experienced operator for shift operation of the plant. The operator is required to monitor proper functioning of all the equipments and the system in total for effective performance of the plant for better results. The scope includes operation of the equipments, attending to minor defects then and there, cleaning and lubricating the rotating parts periodically, maintaining the electrical systems such as panel board etc, dosing chemicals as directed by BHEL, collecting & testing feed and permeate samples, maintaining the log book for all the activities. Agency required to follow the operation & maintenance procedure given by OEM without failure. Required number of operators are to be made available for shifts operation. Also a 'reliever operator' shall work in shifts and a supervisor shall work in general shift. | 12 | Operations | X1 | X2 |

| Tender % on X2 | In Words | In Figures |
|----------------|----------|------------|
| Excess | | |
| Less | | |
| Estimate | | |

Special Notes:

- 1) One Operation means operating and maintenance of STP 2 x4 MLD for a period of ONE month
- 2) All the required Chemicals will be free issue at BHEL Stores.
- 3) All the necessary safety equipment to be provided by the agency.
- 4) Sludge disposal with in 04 kms range as directed by Engineer-in-charge.
- 5) Agency to deploy qualified man power as per the Annexure.
- 6) Agency to carry out sampling and analysis as per the Annexure.
- 7) Agency to maintain records as per the Annexure.
- 8) Agency should arrange required lubricants/grease for rotating equipments for the maintenance of STP.

Important Note:-

All the terms & conditions of the contract with respect to Taxes & Duties are subject to the new taxation laws introduced from time to time (e.g., GST). The terms conditions will be modified in accordance with the provisions of new laws (e.g., GST).

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7.0 DECLARATION BY TENDERER

I, -----, aged ----- Yrs., S/o -----,
residing at -----

Hereby declare as follows:

- (i) That my nationality is _____.
- (ii) That I am a major and eligible to enter into contract / my firm / my company is competent to enter into an agreement.
- (iii) I shall employ only such personnel who have not been found unfit for employment in Organizations such as Central / state / Public undertaking by the Police Authorities.
- (iv) I shall not employ persons against whom Criminal cases are pending or under investigation.
- (v) I shall also not employ persons found guilty of offences involving moral turpitude for executing work in BHEL contracts.
- (vi) That there are no Criminal cases pending or under investigation against me or my firm or company.
- (vii) I have not been found guilty of offences involving moral turpitude nor any of the company directors / partners of my firm have been found guilty of offences involving moral turpitude.
- (viii) Neither myself nor my firm nor my company has been declared insolvent in the past.
- (ix) I have taken due care and efforts to furnish only information which are true in the tender document.
- (x) I shall employ labours who are more than 18 years of age and having sound physical and mental health.
- (xi) I shall keep Photograph / identity proof / residential proof of the labourers to be employed against this tender and arrange for police verification.

[Signature with Name & seal of the Tenderer]

Date :
Place :

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY

[Vendors to furnish this mandate on their Letter Head]

**To,
Dy. Manager/Finance-Cash Management
Bharat Heavy Electricals Limited
Ramachandrapuram
Hyderabad – 502 032.**

Dear Sir,

Sub: Details for National Electronic Fund Transfer

We request and authorize you to effect payment through NEFT to our Bank account, subject to RBI Guidelines as per the details given below.

- A. Sup code (As per PO/SCO) /Staff No:
- B. Beneficiary (Name as per PO/SCO) :
- C. PAN of Beneficiary :
- D. TIN of Beneficiary :
- E. e-mail address of Beneficiary :
- F. City (of Beneficiary) :
- G. Bank Name :
- H. Branch (of Bank) :
- I. A/c Number :
- J. A/c type (Saving or Current) :
- K. MICR Code of the branch (9digit) :
- L. IFSC for NEFT (11 char) :
- M. IFSC for RTGS (If different from L) :

Thanking you,

Signature (With Seal)
Name
Address

Certified that the particulars furnished above are correct as per our records

Date:-

(Signature of authorized official of bank)
Bank Stamp

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY

TENDERER'S AND CONTRACTOR'S CERTIFICATE

1. I hereby declare that I have perused in detail and examined closely the CPWD/ Andhra Pradesh Standard Specifications and it's addenda volume and also BHEL General Conditions of contract. I agree to be bound by and comply with all specifications contained in CPWD/ Andhra Pradesh Standard Specification and General Conditions of contract, for the various items of works specified in the Schedule "A" and the work as a whole.
2. I hereby declare that I shall pay the statutory minimum wages to my workers as applicable from time to time. I shall also adhere to all the statutory obligations under Contract Labour (Regulation and Abolition) Act 1971 and Rules framed there under with subsequent revisions if any.
3. The daily wage rate of labour applicable as on date is as follows as per Sr.DGM/HR-IRX Ref. No. HR/IR/CL/DA/01.10.2015, Date: 30.09.2015.

Guidelines and statutory payments to Contract work force for submitting tenders for Civil Works as per Circular issued by BHEL.

Daily wage rate is exclusive of Holiday and Leave Wage.
Wage rates w.e.f 01.10.2016

U S W : Rs.500.80 per day Inclusive of weekly off.
S S W : Rs.553.15
S W : Rs.604.96

i) Leaves and Holidays

The work force is entitled for holidays which are applicable to BHEL and 1 day leave for every 20 days of working and payment of maximum bonus 20% under payment of Bonus Act 1965.

ii) P F and E S I contributions wages

The PF & ESI @ 13.15% and 4.75% respectively should be contributed by the contractor on above daily wages and payment of Minimum Bonus under the Bonus Act 1965 if applicable. It is once again reiterated that all the contractors shall also provide Uniform, Safety Shoes and other Personal Protective Equipments (PPEs) as required to their workforce and maintain all registers and records up to date.

The contractor's are advised to quote the rates considering the above statutory payments and also future increase in wage rate to contract work force. BHEL will not pay any escalation charges in minimum wages during the contract period.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY

NON PAYMENT / DELAY / SHORT PAYMENT OF WAGES

Obligation of Principal Employer under Payment of Wages Act 1936 / Contract labour (R&A) Act 1971 and Rules made thereof :

1. As a Principal Employer it is our bound duty to ensure that wages are paid to all the contract labours engaged by various contractors in BHEL RC Puram Unit as specified below:
2. As per BHEL guidelines all the contractors are required to pay wages to all their contract labour on or before 7th of every month in case of monthly wage period and every Saturday in case of weekly payments.
3. Any delay in this regards attracts penalty under Payment of Wages Act 1936 as well as under the provisions of Contract Labour (R&A) Act 1970. In such cases it is the responsibility of the Principal Employer to pay the wages to the contract labour and recover the same from the dues payable by BHEL to the contractors. In case of such violation of above provisions i.e., delay in payment by the contractor the Contract Executing Officer shall take following action immediately:
 - a. In case of delay or non-payment of wages by the contractor by designated date/day, the contract executing officer shall issue a letter seeking explanation for non-payment of wages and instruct the contractor to arrange payment immediately not later than a week.
 - b. In case the contractor not acted on the said letter, the contract executing officer shall take immediate action to initiate a note for drawing advance to the extent of the dues payable to the contract labours by the contractor with the concurrence of Finance department and approval of General Manager/HOD, pay the wages directly to the affected labours through their respective Bank Account. The PF/ESI contribution into the respective authorities under the same contractor PF/ESI code. The amount so drawn shall be adjusted against the outstanding bills/payment/SD/EMD or any other payment due to the contractor by BHEL RC Puram Unit.
 - c. The Contract Executing officer shall take necessary action against the contractor to short close the contract and black list the contractor.

SIGNATURE OF TENDERER**ACCEPTING AUTHORITY**

SPECIAL CONDITIONS – SAFETY

1. The following are a few safety measures suggested while carrying the work. However all the items of work should be carried out in safe working manner taking all precautions.
 2. Proper and necessary precautions shall have to be taken wherever the work involves breaking of reinforced cement concrete slab and dismantling of brick work. These items of work will have to be carried in the presence of the Engineer-in-charge.
 3. Proper and necessary scaffolding is to be erected wherever dismantling of brick work is carried out at height more than 1.80 M 4. Reinforced cement concrete slab should be dismantled parallel to the main reinforcement, each piece not exceeding 300 mm wide. Under no circumstances the supporting wall shall be cut or removed until the supporting slab is demolished.
 4. The contractor shall keep supply all safety equipment like safety boots, goggles, helmets and safety belts, to all the workers.
 5. The contractor shall keep a supervisor always at work site.
 6. Power shut down shall be taken before commencement of the work wherever power cables are running.
 7. Proper and necessary scaffolding and ladders are to be used for carrying out all types of works.
- i. Special Instructions :
1. If the tender is made by an individual, it shall be signed with his full name and his address shall be furnished. If it is made by firm, it shall be signed with the co-partnership name by a member of the firm, who shall also sign his own name, also furnish the name and address of each member of the firm. If the tender is made by a corporation, it shall be signed by a duly authorised Officer who shall produce with the tender, satisfactory evidence of his authorisation. Such tendering corporation/firm is required to furnish evidence of its existence along with bid.
 2. The EMD will be refunded to the unsuccessful Tenderers on application after rejection of the tender is intimated. The earnest money will be retained in the case of the successful tenderers and either of the cases will not carry any interest. It will be dealt with as provided in the conditions attached to the tender.
 3. Whenever a tender is to be accepted, the tenderer, whose tender is under consideration, shall attend the Office of " Officer Inviting the Tender " on the date fixed by written intimation to him. He shall forthwith, upon intimation being given to him by the "Officer Inviting the Tender" (Ex. DGM (CDC)) for acceptance of his tender, complete the execution of the agreement by signing all documents connected therewith. Failure to do so and not to commence the work within one month from the date of intimation, shall entail forfeiture of the earnest money.
 4. Tenderers shall peruse carefully the instructions and directions to the parties given in the tender document and the conditions there of and all other relevant documents before quoting the rates for the work. The approximate quantity of work to be executed under each class is given in the schedule. The quantities are given with a view to enable tenderer to quote his overall rate for each class of work in the tender form and for an uniform comparison of tenders. It shall be definitely understood that the schedule is liable to alterations at the discretion of accepting authority.
 5. Tenderers shall keep the offer valid for a period of 120 days from the date of opening of tender. After submitting the tender, he will not recall his offer or modify the terms and conditions thereof. Should the tenderer fail to observe or comply with the foregoing stipulations, the EMD shall be forfeited.

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6. Tenderers have to quote their rates in the tender schedule legibly written in figures and words and those not submitted in proper form are liable for rejection.
7. The submission of tender shall be strictly in accordance with the terms and conditions stipulated in this tender notice. No counter conditions will be acceptable or valid.
8. The tenderers must satisfy themselves by personal study and examination of the drawings/specifications furnished and understand thoroughly the scope of proposed work in detail and all conditions affecting the work before quoting. There shall not be at any time after submission of the tender, dispute/complaint of any nature regarding the scope of work and interpretation of specifications or any misunderstanding with regard to nature or omission of the work to be done nor shall any application for compensation in terms of time and money shall be accepted by BHEL in regard to the above.
9. Contractor shall be deemed to have included in his tender price of all the plant, machinery and appliances required for the purpose of all operations connected with the work embraced under the contract to secure a satisfactory quality of work and rate of progress which in the opinion of the " Contract Signing Officer" will ensure the completion of the work within the time specified.
10. The contractor has to produce the bank guarantee, in the prescribed proforma valid for the contract period for a value calculated at the rates mentioned, towards security deposit. The claim period under the guarantee shall be valid for six months after expiry of the contract.
11. This is a time bound contract for period mentioned, and does not envisage any extension of time / period unless otherwise it is given in writing.
12. The rates quoted by the contractor should be firm for the contract period. There shall be no revision in contract rates during the period of the contract. Any increase of statutory levies during the period of the contract will be reimbursed on production of relevant proof of incurring expenditure for the same.

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SPECIAL TERMS AND CONDITIONS OF CONTRACT

1. Each of the existing Plant is capable of treating 2 x 4 MLD of sewage per day. Technical details of the Plant and the process layout with characteristics of influent and effluent are enclosed.
2. The contractor should engage Supervisor and shift Operators for the O&M work. The Man power requirement is given in Table for operation & treating the sewage to the norms specified by BHEL and disposes the treated water as directed by the Engineer-in-charge.
3. Operation and Maintenance is to be carried out in **three shifts** a day for all the activities of the plant maintaining pumps, valves blowers, pneumatic, dosing systems etc. as per OEM manual.
4. Daily log details have to be maintained for all equipment of the plant and their performance including energy / diesel consumption, feed and permeate water qualities as instructed by BHEL Engineer in charge. All equipment & valves may have to be operated / controlled manually also.
5. If the system is not operated for more than a shift of 8 hours due to break-down on account of other than Power Supply, non availability of effluent, Spares, etc., recovery will be made on pro rata basis as per the approved and awarded rate as in Sl.No.1 and / or Sl. No. 2 for respective STP plant per month from the date of break down to the date of putting back the system to perform effectively. The work is to be executed on all BHEL working days including public holidays and Sundays.

Carryout preventive maintenance of the equipment like pumps, blowers valves etc as per the instructions given in the O&M manual. Attend all minor breakdowns. Materials, if any, required for repairs & maintenance of the equipment by Contractor will be given by BHEL.

Incase of major breakdown, arrange for removal of the motor, gearbox, blowers, pumps etc and handover to BHEL for repair.

The Operator / Supervisor shall report to the BHEL Executive / Supervisor in charge of the sewage treatment plant, about the performance & healthiness of the plant every day.

Contract supervisor shall be responsible for all official correspondences with BHEL.

The contractor shall depute alternate Supervisor / Mechanic / Operator if the shift Supervisor / Mechanic / Operator is on leave / absent / compensatory off.

6. Required Power and Water for the Operation of the system will be provided by BHEL free of charges.
7. All Consumables SPARES and Chemicals required for Operation and Maintenance are free issue by BHEL.
8. Raw and treated water should be tested for pH, TSS, TDS, COD, BOD @20 ° C for 5 days / 27° C for 3 days, Oil & Grease, etc as per the schedule given in the Annexure. Possible field tests have to be conducted on daily and routine basis and pollution control board approved lab tests have to be conducted at least once in a month. All test records and results should be maintained and produced to BHEL for its verification. Analysis should be conducted in any lab approved by State Pollution Control Board for conducting the above said tests, within the quoted rates.
9. The contractor should maintain all monitoring records w.r.t STPs operation and maintenance, Laboratory analysis, etc as listed in the Annexure.

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10. The Contractor should associate for collecting samples by statutory bodies like Central Pollution Control Board, State Pollution Control Board and others if necessary. The STP O&M contractor shall liaison with State Pollution Control Board for all purposes as required w.r.t these STPS within the quoted rates.
11. The contractor shall ensure payment of Minimum wages, Bonus to the workmen employed by him at the rate at which shall not less than the minimum wage applicable under Law from time to time.
12. PF & ESI Act should cover the workmen as applicable and payment will be made only on verification of the documents for the remittance of ESI and PF for the personnel engaged in the work
13. The contractor should submit the list and quantity of consumables and spares used every month for the verification by BHEL
14. The details of spares required for all pumps and the equipments shall be given by the contractor well in advance so as to procure and keep ready to run the plant without any interruption, and the same will be issued to them on written requisition. Replacing of defective spares is in the scope of contractor. Records shall be maintained for the receipt and use of spares supplied by BHEL
15. The workers should be provided with Personal Protective Equipment's such as gloves, goggles, safety shoes, gum boots, face masks, waste cloths, soaps, etc by the Contractor within the quoted rates.
16. The contractor should follow all procedures pertaining to safety and EMS in day to day running of the plant
17. The contractor should keep a First Aid Box with list of Aids and should be refilled as and when required.
18. During this period the contractor should take whole responsibility of the Plant operation including treatment efficiency. Any deviation from the specific performance requirement of any equipment or quality of treated effluent as per norms, the contractor shall immediately take steps to rectify the deficiency without any extra cost to the Authority.

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Annexure - A**TECHNICAL WRITE-UP OF THE SEWAGE TREATMENT PLANT (STP)****1. INTRODUCTION**

Basically the intent of the STP plant (2 X 4 MLD) is to treat the domestic and canteen effluents coming from the factory and the domestic sewage from the township at one location i.e., near NRSP in Township. The average capacity of the each treatment plant is 4 MLD.

The plant is built with the state of the art **Membrane Based Bioreactor Technology (MBR)** to treat the effluent. All the technical requirements for the plant to produce permeate water meeting the pollution control norms and also reuse either for the gardening/toilet flushing have been incorporated in the plant design.

Process Flow Diagram is enclosed. Contractors are advised to study the details. They can also visit the plant site to understand the condition and process requirements, if required.

Details of process are described in the following pages. These are the minimum details and not exhaustive. Detailed O & M manual will be available at the site and the Contractor shall carry out the O & M of the plant strictly as per the O & M manual. Necessary technical assistance, wherever required, will be provided by BHEL.

Preliminary Treatment

The hydraulic, biological and membrane design is based on the feed characteristics described above.

Factory sewage with drain from the Canteen, oil, coolants from factory, automobile work shop shall be collected in an industrial equalization Tank of capacity 2 x 100 m³ by gravity. From Equalization Tank the effluent is pumped to Coarse bar screen followed with Grit removal mechanism and finally through DAF. The treated effluent from DAF shall flow by gravity to Oil & grease chamber located at Sewage Treatment Plant. The Underflow from DAF shall send to common sludge collection pit and the floating oil removed from DAF separately and disposed by customer.

Domestic sewage from the residential colonies and schools will be pumped to Coarse Bar Screen, grit chamber, Oil and Grease skimmer and collected in equalization tank. We have considered 6 Hours holding time equalisation Tank capacity of 2000 m³ (2 X 3 Hours each).

The homogenized and mixed wastewater in the equalization tank will be pumped through fine screening before entering the MBR system.

An internally-fed screen with mesh or punched-hole openings less than or equal to 2 mm in diameter with no possibility of bypass or carryover is absolutely required to maintain both membrane warranty, and optimal MBR operation.

Trash and non-biodegradable solids, such as hair, lint, grit and plastics may foul or damage the membranes if allowed to pass into the membrane chamber.

The pretreated and screened effluent is then fed into aerobic tanks of the bioreactor by gravity.

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Secondary Treatment – Biological treatment

There are two biological trains. Each train is comprised of aerobic tank.

The Mixed Liquor from Membrane tank is pumped through RAS Pumps and effluent in equalization tank is pumped into aerobic Zone. Effluent from the Equalization tank and Return Activated Sludge (RAS) being pumped from the membrane tank must be mixed and fed into the bioreactor tank. Influent wastewater and re-circulated sludge will be divided between the two biological trains as it enters each aerobic tank.

Biological process blowers and fine bubble diffusers in the aerobic tanks will provide the oxygen required for the biological process as well as the mixing energy required to keep the mixed liquor in suspension.

The process aeration blowers provide air for the biological tank and ensure that sufficient oxygen is available to maintain the biological processes in the tank. Dissolved oxygen will be monitored in each aerobic tank to achieve a desired set point of 2 mg/L. There will be Two (2) duty blower and one standby blower with VFD providing process air to the aerobic zone of the bioreactor

The mixed liquor overflows by gravity from the biological tanks to the membrane tanks where the solid/liquid separation takes place by means of the vacuum created by the process pumps. The permeate is stored in the permeate storage tank. As a result of the permeation, the concentration of the mixed liquor in the membrane tanks increases and is higher than the one in the aerobic tanks. To maintain the mixed liquor concentration to acceptable levels in the membrane tanks, typically 10,000 mg/l, the mixed liquor is constantly removed from the membrane tanks and re-circulated back to the aerobic tank with the help of the RAS pumps, a process called membrane tank de-concentration. A portion of the return activated sludge may be diverted to the Sludge Holding Tank for solids processing by RAS pumps.

The mixed liquor from the end of the bioreactor aerobic zone will proceed by gravity to the membrane filtration basins. At the outlet of each aerobic tank and inlet of each filtration basin there will be isolation valve. Flow will proceed by gravity through the valve. The sluice gate valve can be used to either isolate of the membrane tank (i.e. during cleans). Plant demand will be controlled by the feed flow into the system and can be trimmed by the level in the bioreactor/membrane tank.

There are two membrane trains.

One permeate pump and one standby pump is employed to draw water through the membranes. Treated water flows from the permeate pump to the final disposal point.

Under normal operation and average day flow conditions, permeation is stopped for a specific period of time at regular intervals. This membrane relaxation period, combined with air scouring, effectively removes solids that have accumulated on the membrane surface or within the fibers and reduces electrical costs.

Same permeate pump with valving arrangement are provided for backpulsing the membranes. Under increased flow or adverse sludge conditions, the operator is able to select a "backpulse" mode. In this instance, the pump with valving arrangement will reverse the flow of permeate through the membrane fibers to dislodge solids that have accumulated on the membrane surface or within the fibers.

The membranes are air scoured with two duty membrane aeration and One-common standby membrane aeration blowers. The membrane blower capacity for the respective modules can be adjusted by pulley arrangement.

Waste activated sludge (WAS), will be removed to the sludge handling facilities via a side stream on the discharge from the RAS pumps.

To maintain the SRT, activated sludge will be wasted from the membrane tank at a predetermined rate. This will be carried out by RAS pumps.

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BIOLOGICAL PROCESS DESIGN

The biological design is based on the design flow and loading conditions as mentioned in above paragraphs. Based on the influent characteristics, process configuration has been selected. Process Flow Diagram is enclosed for detailed study: Contractors can visit the plant and understand the condition and requirements, if they want.

| Sl. No. | Description | Value | Unit |
|---------|---|-------|----------------|
| 1 | Flow basis of biological design | 8 | MLD |
| 2 | No. of biological trains | 2 | Nos. |
| 3 | Aerobic working volume per Train (including swing zone of 50cu.m) | 1150 | m ³ |
| 4 | Total Bioreactor working volume | 2460 | m ³ |
| 5 | Aerobic tank maximum operating liquid depth+ 0.7 M FB | 4.5 | m |

The table below lists the main design assumptions and outputs at the design temperature for the average day flows.

| Sl. No. | Description | Value | Unit |
|---------|---|-------|--------------------|
| 1 | Temperature | 25 | °C |
| 2 | Design Bioreactor MLSS ¹ | 8.0 | g/l |
| 3 | Design Bioreactor MLVSS /MLSS ² | 58 | % |
| 4 | Total HRT (Including Membrane Tank) | 7.4 | Hours |
| 5 | Total SRT | 10 | Days |
| 6 | Approx. sludge waste rates (from membrane tank) | 210 | m ³ /d |
| 7 | Total Air requirement for Aerobic Zone | 5200 | m ³ /hr |

Notes (1): Bioreactor MLSS refers to the MLSS in the aerobic zones.

Note (2): MLVSS/MLSS ratio values obtained based on assumptions made.

INFLUENT Water Quality

MBR feed water quality considered for the design of the MBR system is as below:

| Sl. No. | Parameter | Raw Sewage (Town Ship – NRSP) | Industrial Inlet Effluent (Industrial - J Gate) | Raw Effluent (Combined effluent) | Units |
|---------|--|-------------------------------|---|-----------------------------------|--------|
| 1 | pH | 6.5 – 7.5 | 6.5 – 7.5 | 6.5 - 7.5 | NU |
| 2 | TSS | 13 – 300 | 168 – 200 | 400 | mg/L |
| 3 | BOD5 @ 20 °C | 51 – 250 | 276 | 300 Max | mg/L |
| 4 | COD | 118 – 500 | 610 | 600 Max | mg/L |
| 5 | Total Kjeldhal Nitrogen (TKN) | 26 – 55 | 38 | 55 Max | mg/L |
| 6 | Total Ammonia as N | 23 – 45 | 35 | 45 Max | mg/L |
| 7 | Total Alkalinity, as CaCO ₃ | 318 | 294 | 350 | mg/L |
| 8 | Oil & Grease (Free) | <50 | 300 max | 100 Max | mg/L |
| 9 | Flow | 6400 | 1600 | 8000 | M3/Day |

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Feed flow data

The following table outlines temperature and flow rates required at the inlet to the MBR System offered.

| Sl. No. | Description | Capacity |
|----------------|-------------------------|-----------------|
| 1 | Waste water temperature | 25°C |
| 2 | MBR feed flow rate | 2x4 MLD |

Product water quality

The following performance parameters are expected under standard operating conditions after equipment start-up based on the data and assumptions listed above.

| Sl. No. | Description | Value | Unit |
|----------------|-------------------------|--------------|-------------|
| 1 | TSS | <5 | mg/l |
| 2 | BOD ₅ @ 20°C | <5 | mg/l |
| 3 | Turbidity | <1 | NTU |
| 4 | COD | <30* | mg/l |

Note:*- Expected effluent quality assumes soluble fractions of COD are biodegradable to this degree.

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Annexure - B**MAN POWER REQUIREMENT**

| MAN POWER REQUIREMENT FOR 2 X 4 MLD STP | | | | | | |
|--|------------------------------|-------------------------------|------------|-------------|-----------------|----------------------|
| Sl. No. | Description | Edu. Qualification | Nos. Reqd. | Shift(s) | Total Nos./ day | Remarks |
| 1 | Shift Operators | Diploma in Mech. / Electrical | 3 | A, B, C | 3 | |
| 2 | Reliever duty Shift Operator | Diploma in Mech. / Electrical | 1 | A or B or C | 1 | |
| 3 | Supervisor | Diploma/ Graduate Engineer | 1 | General | 1 | |
| 4 | Fitter | ITI Fitter Trade | 1 | A or B or C | 1 | One Shift |
| 5 | Electrician | ITI Electrician Trade | 1 | A or B or C | 1 | One Shift |
| 6 | Helpers | -- | 1+1 | A, B | 2 | One Person per Shift |
| 7 | Chemist | B. Sc. Chemist | 1 | General | 1 | Optional |
| Total No. of Workers / Day | | | | | 10 | |

NOTE: -

1. Rates in the PART – II - PRICE BID have to be quoted considering the man power deployment as described above.
2. All the above Operators & the Supervisor shall have experienced in the Operation & Maintenance of similar Sewage / Effluent Treatment Plants.

SHIFT DETAILS:

| | |
|-----------------|----------------------------|
| □□General Shift | - 8.00 Hrs. to 16.30 Hrs. |
| □□'A' Shift | - 6.00 Hrs. to 14.00 Hrs. |
| □□'B' Shift | - 14.00 Hrs. to 22.00 Hrs. |
| □□'C' Shift | - 22.00 Hrs. to 6.00 Hrs. |

(NOTE: Shift timings for the STPs and reliever operator duty are modifiable time to time to suit efficient Operation & Maintenance of the STPs at the discretion of BHEL)

3. The required Chemicals for O & M of STP will be free issue by BHEL only.
4. Chemist shall be engaged as per the requirement as instructed by Engineer-in-charge.

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Annexure - C**Sampling and analysis:**

| Sl. No. | Parameter | Periodicity |
|---|-------------------------------------|---|
| <u>FOR BOTH FACTORY & TOWNSHIP SEWAGE TREATMENT PLANTS</u> | | |
| 1 | PH of feed | Field test daily as required (All apparatus, testing chemicals & testing at contractor's cost) |
| 2 | PH of permeate | |
| 3 | Dissolved oxygen | |
| 4 | MLSS | |
| <u>Permeate to be Tested in State PCB approved Lab</u> | | |
| 1 | pH | At least once in a month (All sampling & testing charges at contractor's cost – To be tested at State PCB approved lab) at expenditures within the quoted rates |
| 2 | Total suspended solids | |
| 3 | Total dissolved solids | |
| 4 | Oil & Grease | |
| 5 | Chemical oxygen demand | |
| 6 | BOD5@20 deg. C or BOD3@27 deg. C | |

List of records to be maintained:

1. Consumption of chemicals on weekly basis.
2. Hours of Operation of all pumps, blowers, etc.,
3. Flow meter reading of Permeate, sludge bleed etc.
4. Hours of operation of DG set during power failure
5. Consumption of Diesel, kerosene, lubricants, etc.
6. Electrical units consumption in each shift
7. Breakdown and corrective/preventive actions
8. Process failures and corrective/preventive actions
9. Lab monitoring records for all parameters of feed & permeate
10. Records for receipt and use of spares, dosing chemicals, etc.
11. Pay quittance and attendance register
12. EPF, ESI, GST and Pan No.

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Issued to: _____



**BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD-32
TOWNSHIP ADMINISTRATION**

TENDER DOCUMENTS
PART B-PRICE BID

Name of the work: **"Operation & Maintenance of 2 X 4 MLD Sewage Treatment Plant for Factory and Township of BHEL R C Puram Unit".**

Tender Notice: HY/TA/OT-01/2017-18, Date. 13.06.2017

INDEX

1. Price bid –Schedule of Rates

**TENDERER
Address:**

ISSUING OFFICER

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