



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-03/2016-17, Date: 13.07.2016.**

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, **“Rate contract for carrying out Routine Annual Civil Maintenance works like Masonry, Flooring, Plumbing, Fabrication, Carpentry, Painting, Road works and Horticulture works etc., in Township”.**

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 **11.08.2016** 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.2000.00** 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
4. A set of tender documents (non-transferable) may be purchased on any working day (Monday to Saturday) between 09:00 hrs. to 12:00 hrs. From **Township Administration Planning Department, BHEL-HPEP, RC PURAM, HYDERABAD - 32** by paying the prescribed Tender fee of **Rs.4000/- 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”.

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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/OT-3/2016-17, Date: 13.07.2016.**

Name of work	:	Rate contract for carrying out Routine Annual Civil maintenance works like Masonry, Flooring, Plumbing, Fabrication, Carpentry, Painting, Road works and Horticulture works etc., in Township.
i) Earnest Money Deposit	:	Rs. 2.00 lakhs or one time EMD Rs.2.00 lakhs.
ii) Approximate Estimated value of work	:	<u>Rs.700.00 lakhs (for 2 years).</u> <u>Rs.350.00 lakhs (each year).</u>
iii) Cost of Tender documents	:	2000/- (through Web)
iv) Last date for sale of tender documents (Mention date and time)	:	<u>10/08/2016 at 16:00 hrs.</u>
v) Last date of receipt of tenders (Mention date and time)	:	<u>11/08/2016 at 11:00 hrs.</u>
Date, time and place of tender opening (Mention date, place and time)	:	<u>11/08/2016 at 13:30 hrs.</u> at Vendor Complex
vi) Period of Completion (Mention duration of the Contract)	:	<u>24 Months</u>
vii) Maintenance period	:	<u>06 Months</u>
viii) Any corrigendum	:	Agencies are requested to update Themselves in BHEL website regularly.

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 68 lakhs = Rs.20.4 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 68 lakhs = Rs.17 lakhs).
OR
 - b. Two similar completed works each costing not less than the amount equal to 35% of the estimated cost (35% of 68 lakhs = Rs.24 lakhs).
OR
 - c. One similar completed work costing not less than the amount equal to 50% of the estimated cost (50% of 68 lakhs = Rs.34 lakhs).

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

Similar work means:

Experience in maintenance / construction of civil works (100 % Weightage will be considered) ; Road works including formation and making of CC and BT roads (25 % Weightage will be considered) and Labour oriented or Housekeeping Works will not be considered.

(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/Form 26 AS).

- 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) It is required to furnish VAT registration certificate issued by Commissioner, Commercial Taxes, **Telangana** Govt., and Service Tax registration certificate in respect of all works.
- vi) PAN card. (In case not available, proof of having applied with acknowledgement from concerned authority).

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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).
3. Tender documents can be collected from TA Office. Cost of document shall be paid in the shape of Demand Draft or Bankers. Cheque or Pay Order and separately enclosed to the technical bid.
4. The requisitions for tender documents shall be addressed to AGM/TA, Ramachandrapuram, Hyderabad 502 032 along with Demand Draft/Banker's Cheque drawn in favour of 'BHARAT HEAVY ELECTRICALS LIMITED, HYDERABAD' or payment of cash in BHEL Cash Office (No other Mode of payment will be accepted). Tender documents shall be collected in Person by the contractor or his authorized representative.
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 any or all tenders in part or in full without assigning any reasons.
9. BHEL reserves the right to split the work into convenient parts and award them to different contractors.
10. **Nil.**
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. Separate Covers (i.e.)

Cover-A	-	for Technical Bid (sealed cover)
Cover-B	-	for Price Bid (sealed cover)
Cover-C	-	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. A tender may be rejected while scrutiny of technical bids in case there is unsatisfactory past performance in the execution of an earlier contract.
16. 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.
17. All the BHEL General Conditions of the Contract is applicable, if required that can be collected from the office of Planning Township Administration.

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- 18 Payment terms: - Every month after submission of bill by the contractor, as certified by Engineer-in-charge the bills will be released.
- 19 The agency shall carryout the Electrical works 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.

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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 (*To be submitted in Sealed cover enabling us to open on 11.08.2016*) Part 'B': Price Bid to be submitted in Sealed cover as per Tender conditions.
- 2.1.2 Part 'A' must be duly completed and super-scribed "*Tender Enquiry No. HY/TA/OT-03/2016-17, Date. 13.07.2016 Part 'A' Techno-commercial Bid*". The tenderer shall not indicate the price or rate in the PART-A: Techno-commercial bid. The tenderer shall expressly accept all the terms and conditions of the Tender. The tender which does not comply with the BHEL's Terms & Conditions may be rejected as Non-responsive/non-conforming and non-acceptable.
- 2.1.3 Part 'B' must be duly completed with reference to the tender conditions and put in a separate sealed envelope super-scribed "*Tender Enquiry No. HY/TA/OT-03/2016-17,Date: 13.07.2016 Part 'B' - Price Bid*".
- 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.
- 2.1.6 Part 'B' Price bid will be opened only in respect of those tenderers who are qualified in Techno-Commercial Bid.
- 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 sealed in separate envelopes should be sealed in another envelope and 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 11.08.2016* the 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. Part 'A' of tender form i.e. Techno-commercial Bid will be opened on *11.08.2016 at 13:30 hrs.* The same day in the presence of tenderers or their representatives who are present for the tender opening. Tenderers who qualify in the Techno-commercial Bid will be

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intimated to attend the tender opening of part 'B' - price bid at a date to be notified separately. Part 'B' i.e. price Bid will be opened at the specified date in the presence of the tenderers or their representative who are notified to attend 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.,

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.

2.1.20 The tenderer will be required to quote the rates against each item of work under each group (both in figures and words).

2.1.21 **REVERSE AUCTION:** BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "online sealed bid" in the Reverse Auction. Non-submission of online sealed bid by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

Start price for Reverse Auction will be the estimate or L1 of on-line sealed bids, whichever is less

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

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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

- 2.1.23 Wherever it is quantity based work, including main work and sub-work, the tenderer should quote his rates against each item /work (main as well as sub-work/item).
- 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

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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.

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

3.0 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) **NA**
- vi) 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
- vii) The bid prepared by the Bidder including all correspondence etc. relating to his offer/ bid shall be in ENGLISH language only and English figure.

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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.
- 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.2.00 Lakhs / One time EMD of Rs.2.00 Lakhs** 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.

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- 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.

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:

Upto Rs.10 lakhs	: 10%
Above Rs.10 lakhs upto 50 lakhs	: Rs.1 lakh + 7.5% of the amount exceeding Rs.10 lakhs
Above Rs. 50 lakhs	: Rs. 4 lakhs + 5% of the amount exceeding Rs. 50 lakhs

- 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 BHEL consodium Bank / 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 BHEL consodium Bank / 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.

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- 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, Service Tax 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.
- 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**.

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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 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.

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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 contractors 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, initially, for a period of **24 months** and there is no Price Escalation during this period.
The rate quoted/contract is valid for two years, Company may issue LOI initially for a period of one year. The company reserves its right to issues LOI/contract for the second year to the contractor on successful and satisfactory completion of first year contract. The contractor is bound to execute the contract for second year without any demur. If the contractor fails to execute the contract, BHEL reserves the right to execute the contract through any other contractors at the risk and cost of the contractor and the company reserve the right to take appropriate action against the defaulted contractor.
The parties, mutually agreed upon, may extend the period of contract for further period of one year on the same terms & conditions of the contract without any price escatllation.
- ii) BHEL is at liberty to terminate the Agreement by giving 30 days notice in writing.

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.

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.

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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.

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 or 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.
- 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.

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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.

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- 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 on completion of contract and to keep all the records in Form C as per the said Act.
- 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, and 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.

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- 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.
- 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 Service Tax as applicable as assessed by Central Excise Authority (Service tax 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,

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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.
- 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.

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- 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.
- 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.
- 4.54 **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.

5.0 CONTRACT WORK DESCRIPTION:

Name of work: - "Rate contract for carrying out Routine Annual Civil Maintenance works like Masonry, Flooring, Plumbing, Fabrication, Carpentry, Painting, Road works and Horticulture works etc., in Township".

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SCHEDULE 'A' - Unpriced**Contract period: 24 months****CONTRACT WORK DESCRIPTION:**

Name of work: - "Rate contract for carrying out Routine Annual Civil Maintenance works like Masonry, Flooring, Plumbing, Fabrication, Carpentry, Painting, Road works and Horticulture works etc., in Township".

BHEL ITEM NO	DSR 2012 REF NO	DESCRIPTION	PROPOSED INDICATIVE QTY***	UNIT
EARTH WORK				
1	2.6	Earth work in excavation by mechanical means (hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.		
1.1	2.6.1	All kinds of soil	40	cum
2	2.7	Earth work in excavation by mechanical means (hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.		
2.1	2.7.1	Ordinary rock	39	cum
2.2	2.7.3	Hard rock (blasting prohibited)	40	cum
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth sides of founding each deposited layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50m and lift up to 1.5..	39	cum
4	2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15cm deep and disposal of rubbish lead upto 50m and lift upto 1.5m		
4.1	2.28.1	All kinds of soil	40	100 sqm
5	2.31	Clearing jungle including uprooting of rank vegetation, brush wood trees and sapling of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50m outside the periphery of these area cleared.	77	One Sqm
6	2.32	Clearing grass and removal of the rubbish up to a distance of 50m outside the periphery of the area cleared.	180	100 sqm
7	2.33	Felling trees of the girth (measured at a height of 1m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unsserviceable material.		
7.1	2.33.1	Beyond 30cm girth upto and including 60cm girth	40	each
7.2	2.33.2	Beyond 60cm girth upto and including 120cm girth	40	each
7.3	2.33.3	Beyond 120cm girth upto and including 240cm girth	40	each
7.4	2.33.4	Above 240cm girth	35	each
8	BHEL Approved Rate	Earth work excavation in slushy soils including removing the sewage water and scum from the pit of broken sewer lines,man holes, chambers etc., to enable building new ones (sewage gangman are to be engaged if necessary) etc., complete all as directed by Engineer-in-charge.(while excavating care should be taken about cables and shall intimate to Electrical Department/ Telephones Department to take care of the cables).	44	One Cum
9	BHEL Approved Rate	Providing lawn turfing with carpet grass of approved variety and levelling the surfaces after turfing including th watering the area for 30 days etc complete as directed by Engg In charge.	75	Sqm
10	BHEL Approved Rate	Supply of Cattle manure of good quality as directed by Engineer in charge etc.	40	Cum
CEMENT MORTAR WORKS				
11	3.1	Cement mortar 1:1(1 cement 1 fine sand)	40	cum
12	3.2	Cement mortar 1:2(1 cement 2 fine sand)	40	cum
13	3.3	Cement mortar 1:3(1 cement 3 fine sand)	40	cum

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14	3.4	Cement mortar 1:4(1 cement 4 fine sand)	40	cum
15	3.5	Cement mortar 1:5(1 cement 5 fine sand)	40	cum
16	3.6	Cement mortar 1:6(1 cement 6 fine sand)	40	cum
17	3.7	Cement mortar 1.2 (1 cement 2 coarse sand)	40	cum
18	3.8	Cement mortar 1.3 (1 cement 3 coarse sand)	40	cum
19	3.9	Cement mortar 1.4 (1 cement 4 coarse sand)	40	cum
20	3.1	Cement mortar 1:5 (1 cement 5 coarse sand)	40	cum
21	3.11	Cement mortar 1.6 (1 cement 6 coarse sand)	40	cum
22	3.12	Cement mortar 1:2(1 cement 2 stone dust)	40	cum
23	3.13	Cement mortar 1:2(1 cement 2 marble dust)	40	cum
24	3.14	Cement mortar 1:5(1 cement 5marble dust)	40	cum
CEMENT CONCRETE WORKS				
25	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work upto plinth level		
25.1	4.1.2	1:1 1/2:3(1 cement 1 1/2 coarse sand :3 graded stone aggregate 20mm nominal size)	75	cum
25.2	4.1.3	1:2:4 (1cement 2:coares sand 4 grade stone aggregate 20mm nominal size)	75	cum
25.3	4.1.4	1:2:4 (1cement 2:coares sand 4 grade stone aggregate 40mm nominal size)	75	cum
25.4	4.1.5	1:3:6 (1cement 3:coares sand 6 grade stone aggregate 20mm nominal size)	75	cum
25.5	4.1.8	1:4:8 (1cement 4:coares sand 8 grade stone aggregate 40mm nominal size)	75	cum
25.6	4.1.9	1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	20	cum
25.7	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	20	cum
26	4.2	Providing and laying cement concrete in retaining walls return walls (any thickness) including attached pilasters, columns piers abutments pillars posts struts buttresses string or lacing courses parapets coping bed blocks anchor blocks plain window sills fillets etc. upto floor five level excluding the cost of centering shuttering and finishing :		
26.1	4.2.2	1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	20	cum
27	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :		
27.1	4.3.1	Foundations, footings, bases for columns	10	sqm
28	4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1cement 3 coarese sand) including the cost of required centering shuttering and finishing smoth with 6 mm thick cement plaster 1:3 (1 cement :3 fine sand) on exposed surfaces complete.		
28.1	4.6.1	1:2:4(1cement :2 coarse sand :4 graded stone aggrigate 20mm nominal size)	70	cum
REINFORCED CEMENT CONCRETE WORKS				
29	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering shuttering finishing and reinforcement All work up to plinth level		
29.1	5.1.2	1:1.5:3(1cement 1.5 coarse sand 3 grade stone aggrigate 20mm nominal size)	55	cum
29.2	5.1.3	1:2:4(1cement 2 coarse sand 4 grade stone aggrigate 20mm nominal size)	55	cum
30	5.2	Reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses plinth and string course fillets columns pillars piers abutments posts and struts etc. up to floor five level excluding cost of centering shuttering finishing and reinforcement		
30.1	5.2.2	1:1.5:3(1cement 1.5 coarse sand 3 grade stone aggrigate 20mm nominal size)	55	cum
30.2	5.2.3	1:2:4(1cement 2 coarse sand 4 grade stone aggrigate 20mm nominal size)	20	cum
31	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, intels, bands, plain window sills, staircases and spiral strair cases upto floor five level excluding the cost of centering shuttering finishing	55	cum

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		and reinforcement with 1:2:4(1cement 2 coarse sand 4 grade stone aggregate 20mm nominal size)		
32	5.9	Centering and shuttering including strutting propping etc. and removal of form work for :		
32.1	5.9.1	Foundations , Footings, bases for columns	40	sqm
32.2	5.9.2	walls (any thickness) including attached pilasters, buttersesses plinth and string courses etc.	40	sqm
32.3	5.9.3	Suspended floors roofs, landing balconies and access platform	40	sqm
32.4	5.9.4	Shelves (cast in situ)	40	sqm
32.5	5.9.5	Lintels, beams, plinth beams, girderss, bressumenrs and cantilevers.	40	sqm
32.6	5.9.6	Columns piers, abutments, pillars, posts and struts.	40	sqm
32.7	5.9.7	Stairs, (excluding landing) except spiral staircases	40	sqm
32.8	5.9.15	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, coping bed plates, anchor blocks and the like	20	sqm
33	5.18	Providing precast cement concrete jali 1:2:4(1cement 2 coarse sand 4 graded stone aggregate 6mm nominal size) reinforced with 1.6mm dia mild steel wire including centering and shuttering roughening cleaning fixing in cement mortar 1:3 (1cement 3 fine sand)etc. complete excludign plastering of the jambs sills and soffits.		
33.1	5.18.1	50mm thick	55	sqm
33.2	5.18.2	40mm thick	55	sqm
33.2	5.18.3	25mm thick	55	sqm
ENCASING ROLLED STEEL SECTION				
34	5.19	Encasing rolled steel section, in beams and columns with cement concrete 1:2:4(1cement 2 coarse sand 4 graded stone aggregate 12.5mm nominal size) including centering and shuttering complete but excluding cost of reinforcement.	28	cum
35	5.22	Reinforcement for RCC work including straightening, cutting bending placing in position and binding all complete.		
35.1	5.22.3	Cold twisted bars	140	kg
35.2	5.22.4	Hot rolled deformed bars	200	kg
36	5.26	Providing and filling in position blown bitumen in expansion joints.	54	per depth cm per cm width per 100m
37.1	5.33.2	Providing and laying in position machine batched machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering shuttering finishing and reinforcement. including admixtures in recommended proportions as per IS 9103 to aecelarate retard setting of concrete improve workability with out impairing strength and durability as per direction of Engineer -in Charge. M-25 grade reinforced cement concrete by using 410kg of cement per cum of concrete. all work up to floor V level with readymix concrete.	30	cum
38	5.34	Add or deduct for providing richer or leaner mixes respectively at all floor levels.		
38.1	5.34.1	Providing M-30 grade concrete by using 420kg of cement per cum of concrete instead of M-25 grade B.M.C/ R.M.C	55	cum
38.2	5.34.2	Providing M-35 grade concrete by using 428kg of cement per cum of concrete instead of M-25 grade B.M.C/R.M.C.	55	cum
38.3	5.34.3	Providing M-40 grade concrete by using 435kg of cement per cum of concrete instead of M-40 grade B.M.C/R.M.C.	55	cum
BRICK MASONRY				
39	6.1	Brick work with FPS bricks of class designation 75 in foundation and plinth in:		
39.1	6.1.1	cement mortar 1:4(1cement :4 coarse sand)	20	cum
39.2	6.1.2	cement mortar 1:6(1cement :6 coarse sand)	20	cum
40	6.4	Brick work FPS brick of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in		
40.1	6.4.1	cement mortar 1:4(1cement :4 coarse sand)	55	cum
40.2	6.4.2	cement mortar 1:6(1cement :6 coarse sand)	55	cum
41	6.13	Half brick masonry with FPS brick of class designation 75 in superstructure above plinth level upto floor V level.		

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41.1	6.13.1	cement mortar 1:3(1cement :3 coarse sand)	55	sqm
41.2	6.13.2	cement mortar 1:4(1cement :4 coarse sand)	55	sqm
STONE MASONRY				
42	7.7	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with		
42.1	7.7.1	cement mortar 1:6(1cement 6 coarses sand)	55	cum
43	7.37	Stone work (machine cut edges Veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately).		
43.1	7.37.1	Kota stone slabs exposed face dressed and rubbed.		
43.2	7.37.1.1	25 mm thick	20	sqm
44	7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match		
44.1	7.38.1	8mm thick (mirror polished and machine cut edge)		
44.2	7.38.1.1	Granite stone of any colour and shade	20	sqm
WOOD/ PVC WORKS				
45	9.1	Providing wood work in frames of doors windows, clerestory windows and other frames, wrought framed and fixed in position		
45.1	9.1.1	Second class teak wood	40	cum
46	9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI maked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.		
46.1	9.5.1	Second class teak wood		
46.2	9.5.1.1	35mm thick shutters	34	sqm
46.3	9.5.1.2	30mm thick shutters	34	sqm
47	9.6	Providing and fixing 35mm thick factory made laminated veneer lumber door shutter conforming to IS 14616 and TDS 15:2001(part B) including ISI marked black enameled M.S butt hinges with necessary screws as per directions of engineer in charge and panelling with panels of		
47.1	9.6.1	12mm thick plain grade-1, medium density flat pressed three layer particle board FPT-1 or grade wood particle board FPT-1 IS :3087 marked bonded with BWP type synthetic resin adhesive as per IS :848	34	sqm
47.2	9.6.2	12mm thick pre laminated particle board (decorative lamination on both sides) grade- 1, medium density flat pressed three layer particle board FPT-1 or graded wood particle boarde FPT-1, conforming to IS 3087 bonded with BWP type synthetic resin adhesive as per IS 848 and prelaminated conforming to IS 12823 grade 1, type -II marked	34	sqm
48	9.7	Providing and fixing panelling or panelling and glezing in panelled or panelled and glazed shutters for doors windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured) panelling for panelled or panelled and glazed shutters 25mm to 40mm thick		
48.1	9.7.1	Second class teak wood	34	sqm
49	9.9	Providing and fixing glazed shutters for doors windows and clerestory windows using 4mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws.		
49.1	9.9.1	Second class teak wood		
49.2	9.9.1.2	30mm thick	34	sqm
50	9.16	Providing and fixing 25mm thick shutters for cup board etc.		
50.1	9.16.1	Panelled or Panelled and glazed shutters		
50.2	9.16.1.1	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	34	sqm
50.3	9.16.2	Glazed shutters		
50.4	9.16.2.1	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	34	sqm

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51	9.18	Providing and fixing pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS 3087 marked with one side decorative and other side balancing lamination grade I, type II exterior grade IS 12823 marked in shelves with screws and fitting wherever required edges to be painted with polyurethane prime fitting to be separately)		
51.1	9.18.1	18mm thick	34	sqm
51.2	9.18.1.2	25mm thick	34	sqm
52	9.2	Providing and fixing ISI marked flush door shutters conforming to IS 2202 (part I) decorative type core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross band and face veneers on both faces of shutters		
52.1	9.20.2	30mm thick including ISI marked stainless steel butt hinges with necessary screws	34	sqm
52.2	9.20.3	25mm thick (for cupboard) including ISI marked nickel plated bright finished MS piano hinges IS 3818 marked with necessary screws	34	sqm
52.3	9.34.4	Providing and fixing 2nd class teak wood plain lining tongued and grooved on and including wooden plugs complete with necessary screws and priming coat on unexposed surface - 12 mm thick	34	sqm
53	BHEL Approved Rate	Supply, fabrication and fixing of Ornamental M.S. grills for staircase door frames with shutters of approved quality and design including fixing of MS hold fasts in Cement concrete, cost of all materials etc., complete as directed by the Engineer-in-charge.	10	kg
54	9.48	Providing and fixing MS grills of required pattern in frames of windows etc. with MS flats, square or round bars etc. all complete		
54.1	9.48.1	Fixed to steel windows by welding	34	kg
54.2	9.48.2	Fixed to opening / wooden frames with rawl plugs screws etc	34	kg
55	9.55	Providing and fixing ISI marked MS pressed butt hinges bright finished with necessary screws etc. complete		
55.1	9.55.1	125x65x2.12mm	34	each
55.2	9.55.2	100x58x1.90mm	34	each
55.3	9.55.3	75x47x3.10	34	each
55.4	9.55.4	50x37x1.50mm	34	each
56	9.56	Providing and fixing IS 1341 marked MS heavy weight butt hinges with necessary screws etc. complete		
56.1	9.56.1	125x90x4.00mm	34	each
56.2	9.56.2	100x75x3.50mm	34	each
56.3	9.56.3	75x60x3.10mm	34	each
56.4	9.56.4	50x40x2.50mm	34	each
57	9.117	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance - +1mm) with wall thickness 2.0mm - + 0.2mm, corners of the door frame to be mitred and welded of pastic, galvanized brackets and stainless steel screws . the hinges side vertical of the frames reinforced by galvanized stainless steel hinges fixed to the frame complete as per manufactures specification and direction of engineer in charge		
57.1	9.117.1	Extruded section profile size 48x40mm	34	mtr
57.2	9.117.2	Extruded Section Profile size 42x50mm	34	mtr
58	9.118	Providing and fixing to existing door frames		
58.1	9.118.1	24mm thick factory made PVC door shutters mede of styles and rails of a UPVC hollow section of size 59x24mm and wall thickness 2mm - + 0.2mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of MS galvanised / plastic brackets of size 75x220 mm having wall thicknell 1.0mm and stainless steel screws. the styles of the shutter reifored by inserting galvanised MS tube of size 20x20mm and 1mm - + 0.1mm wall thickness. the lock rail made up of H section a UPVC hollow section of size 100x24 mm and 2 mm - + 0.2mm wall thickness fixed to the shutter styles by means of plastic/ galvanised MS.U cleats. the shutter frame filled with a UPVC multi chambered single panel of size not less than 620 mm having over all thickness of 20mm and 1mm - + 0.1mm wall thickness. the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised MS rod and fastened with nuts and washers, complete as per manufacture's specification and washers complete as per manufacture's specification and direction of engineer in charge. (for W.C and	34	sqm

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		bathroom door shutter)		
58.2	9.118.2	30mm thick factory made polyvinyl chloride (PVC) door shutter made of styles and rails of a UPVC hollow section of size 60x30mm and wall thickness 2mm +- 0.2mm with inbuilt decorative moulding edging on one side. The styles and rails mitred and joined at the corners by means of MS galvanised/ plastic brackets of size 75x220mm having wall thickness 1.0mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised MS tube of size 25x20mm and 1mm +- 0.1mm wall thickness.the lock rail made up of H section a UPVC hollow section of size 100x30mm and 2mm +- 0.2mm wall thickness fixed to the shutter styles by means of plastic galvanised MS U cleats. the shutter styles by means of plastic / galvanised MS U cleats. the shutter frame filled with a UPVC multi chambered single panel of size not less than 620mm having over all thickness of 20mm and 1mm +- 0.1mm wall thickness. the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised MS rod and fastened with nuts and washers, complete as per manufacture's specification and dircetion of engineer in charge	34	sqm
58.3	9.118.3	25mm thick PVC flush door shutters made out of a one piece multi chamber extruded PVC section of the size of 762 mm x 25mm or less as per requirment with an average wall thickness of 1mm +- 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. an MS tube having dimensions 19mmx19mm is inserted along the hinges side of the door. core of the door shutter shuold be filled with high density polyrenthane foam. the top and bottom edges of the shutter are covered with an end cap of the size 25mm x 11mm. door shutter shall be reinforced with special polymeric reinforcements as per manufacture specification and direction of Engineer in charges to take up necessary hardware and fixtures. stickers indicating the locations of hardware will be pasted at appropriate places	34	sqm
59	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47mmwith a wall thickness of 5mm, made out of extruded 5mm rigid PVC foamsheet mitred at corners and joined with 2 Nos. of 150mm long brackets of15x15mm M.S. square tube, the vertical door profiles to be reinforced with19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weatherseal to be provided through out the frame. The door frame to be fixed tothe wall using M.S. screws of 65/100mm size complete as permanufacturers specification and direction of Engineer-in-Charge.	100	mtr
60	9.12	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.		
60.1	9.120.1	30 mm thick plain PVC door shutters	34	sqm
60.2	9.120.2	30 mm thick pre laminated PVC door shutters	34	sqm
61	BHEL Approved Rate	Supplying and fixing of medium Indian teakwood window shutters 30 mm thick fully glazed with 3 mm thick glass of approved quality including cost and fixing of MS fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-	34	One Sqm

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		charge.		
62	BHEL Approved Rate	Supplying and fixing of medium Indian teak wood window shutters 30 mm thick fully panelled including fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge.	34	One Sqm
63	BHEL Approved Rate	Supplying and fixing of medium Indian teak wood window shutters 30 mm thick partly panelled and partly glazed with 3 mm thick glass of approved quality including cost and fixing of MS fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge.	34	One Sqm
64	BHEL Approved Rate	Supply and fixing well seasoned medium Indian teak wood window / ventilator frames made out of scantling of size 75x75 mm including fixing of M.S hold fasts 16 mm dia MS rounds spaced at not more than 10.5cm centre to centre, cost of all materials etc., complete as directed by the Engineer-in-charge. (This includes dismantling the existing frames, brick work, P.C.C etc., and making good to a neat finish etc., complete wherever necessary).	34	One Sqm
65	BHEL Approved Rate	Supply and fixing well seasoned medium Indian teak wood ventilator shutter 30 mm thick fully glazed top/side hung type, glazing with 3mm thick glass of approved quality.	34	One Sqm
66	BHEL Approved Rate	Supplying and fixing weldmesh door partly panelled and partly weldmesh double leaf shutters 30 mm thick using medium Indian teakwood and weldmesh of size 75x25 mm, 10x8 guage including supplying and fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge.	34	One Sqm
67	BHEL Approved Rate	Supply and fixing weldmesh door double leaf shutter 30 mm thick using best Indian teakwood and weldmesh of size 75 x 25mm, 10 x 8 guage including supplying and fixing of MS fixtures, fittings and furniture of superior quality etc., complete as directed by Engineer-in-charge.	34	One Sqm
68	BHEL Approved Rate	Supplying and fixing of weldmesh of size 75x25mm, 10x8 guage with 75 x 25 mm seasoned medium Indian teakwood reapers to the existing windows including 2 coats of painting with synthetic enamel paint of approved shade and brand over a coat of primer, making holes wherever necessary for operating the fixtures, furniture, cost of all materials etc., complete.	34	One Sqm
69	BHEL Approved Rate	Supplying and fixing of M.S flymesh of an approved quality to the existing door and window shutters with necessary wooden beeding wherever necessary, including removing the existing flymesh, cost of all materials etc., complete.	34	One Sqm
70	BHEL Approved Rate	Supplying and fixing of medium Indian teak wood door shutters 30 mm thick partly panelled and partly flymesh of approved quality including cost and fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete.	50	One Sqm
71	BHEL Approved Rate	Supplying and fixing of medium Indian teak wood door shutters 30 mm thick with fully flymesh of approved quality including cost and fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete.	50	One Sqm
72	BHEL Approved Rate	Supplying and fixing of best approved quality aluminium sheeting 24 guage to the faces and edge of door shutters including fixing with best quality GI screws and cup washers, cost of all materials etc., complete as directed by the Engineer-in-charge. (The measurement shall be made for both sides of door only).	50	One Sqm
73	BHEL Approved Rate	Supplying of medium Indian teak wood planks of 19 mm thick in various sizes as directed upto a length of 2.40 M.	50	One Sqm
74	BHEL Approved Rate	Supplying and fixing of seasoned medium Indian teakwood reapers of size 50 x 25 mm horizontally on the wall surface by providing wooden pegs and fixing with MS screws etc., complete.	50	One Rmt
75	BHEL Approved Rate	Supplying and fixing in position medium Indian teakwood cupboard shutters having frame of size 75 x 25 mm scantling and fixing 3 mm thick plywood sheets on both sides including cost of MS hinges, Nickle coated latches and oxidised aluminium fixtures and furniture of approved quality etc., complete as directed by the Engineer-in-charge.	50	One Sqm
76	BHEL Approved Rate	Supply and fixing commercial Plywood sheets 4 mm thick plain lining with necessary screws, priming coat on exposed surface etc complete all as directed by Engineer-in-charge.	50	One Sqm
77	BHEL Approved Rate	Repairs to the existing doors, windows, ventilators and cup boards including frame, shutters, fittings, weldmesh, T.W beadings etc., all as directed by the Engineer-in-charge.	100	One Sqm
78	BHEL Approved Rate	Conveying from the stores of wooden / PVC - single / double leaf door shutters and fixing in position at places as directed with all required fittings etc (Door will be free issue from BHEL store)	50	One Sqm
79	BHEL Approved Rate	Supplying and fixing laminated sheet of thickness not less than 1 mm of required design, brand, quality and size all as directed by the Engineer-in-charge.	50	One Sqm

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80	APSSR-2014-15/BMT-G.45	Supplying and fixing M.S aldrip powder coated of 16 mm dia 300 mm long heavy type with plate folded hooks required nuts and bolts as directed by the Engineer-in-charge.	50	Each
81	APSSR-2014-15/BMT-G.43	Supplying and fixing M.S aldrip powder coated of 12 mm dia 200 mm long heavy type with required nuts and bolts as directed by the Engineer-in-charge.	50	Each
82	BHEL Approved Rate	Supplying and fixing of PVC netlon mesh of approved colour to the existing windows/Doors mesh shutters/Frames with male and female posting arrangements etc. complete as directed by the Engineer-in-charge.	50	One Sqm
83	BHEL Approved Rate	Labour charges for removing of existing old flymesh etc. complete as directed by the Engineer-in-charge.	50	One Sqm
84	APSSR-2014-15/BMS-W.05	Supply and fixing of 100 mm vertical blinds including imported spare parts and Indian fabric including cost of materials, fixtures and fittings etc., complete as directed by the Engineer-in-charge.	50	One Sqm
85	BHEL Approved Rate	Providing and fixing Milkwhite acrylic sheet with 4mm thick & lettering with engraving & embossing.	50	One Sqm
86	21.1.1.1/P.337	Providing & fixing anodised aluminium work for doors, windows, ventilators & partitions with extruded built up standard tubular & other sections of approved make conforming to IS : 733 & IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs & screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/Neoprene felt etc., Aluminium sections shall be smooth, rust free, straight, mitred & joined mechanically wherever required including cleat angle. Aluminium snap beading for glazing/panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings & the directions of Engineer-in-charge (glazing and panelling to be paid for separately). for all types of works	100	kg
87	BHEL Approved Rate	Supplying and fixing 12 mm thick Novapan / Duratoff or equivalent exterior grade phenol banded weather resistant melamine faced prelaminate particle board (PTX) for partition frame work door shutters, louvers with lipping etc., with teakwood reaper including cost of all materials, labour etc., complete.	10	sqm
88	BHEL Approved Rate	Supply and fixing of plain glass panes / pin headed / ground glass panes frosted of 4 MM thick of required sizes with proper wooden beddings/glass putty required for fixing to the existing broken glass panes along with the beading/glass putty, cost of all materials and labour etc complete all as directed.	50	sqm
89	21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.50 mm thickness	50	sqm
90	9.17	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade-I) or graded wood particle board IS : 3087 marked to frame, backing or studding with screws etc. complete (Frames, Backing or studding to be paid separately)		
90.1	9.17.1	12 mm thick	50	sqm
90.2	9.17.2	18 mm thick	10	sqm
STEEL WORK*				
91	10.1	Structural steel work in single section fixed with or without connecting plate including cutting hoisting fixing in position and applying a priming coat of approved steel primer all complete	34	kg
92	10.2	Structural steel work riveted bolted or welded in built up sections, strusses and framed work, hoisting fixing in position and applying a priming coat of approved steel primer all complete	34	kg
93	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm dia steel pulleys complete with bolts nuts locking arrangement stoppers handles including applying a priming coat of approved steel primer	34	sqm
94	10.4	Providing and fixing 1mm thick MS sheet sliding shutters with frame and diagonal braces of 40x40x6 mm angle iron 3mm MS gusset plates at the junction and corners 25mm dia pully 40x40x6mm angle and T- iron guide at the top and bottom respectively including applying a priming coat of approved steel primer	34	sqm
95	10.5	Providing and fixing 1mm thick MS sheet door with frame of 40x40x6mm angle iron and 3mm gusset plates at the junctions and corners all necessary fitting complete including applying a priming coat of approved steel primer		

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95.1	10.5.1	Using MS angles 40x40x6mm for diagonal braccsss	34	sqm
95.2	10.5.2	Using flat 30x6mm for diagonal braccss and central cross piece	34	sqm
96	10.6	Supplying and fixing rolling shutters of approved make made of required size MS laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets side guides and arrangement for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire spring grade No. 2 and MS top cover of required thickness for rolling shutters		
96.1	10.6.1	80x1.25mm MS laths with 1.25mm thick top cover	34	sqm
96.2	10.6.2	80x1.20mm MS laths with 1.20mm thick top cever	34	sqm
96.3	10.6.3	80x0.90mm MS laths with 0.90mm thick top cover	34	sqm
97	10.7	Providing and fixing mechanical device chain and crank operation for operating rolling shutters	34	each
98	10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters		
98.1	10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	34	sqm
98.2	10.8.2	Exceeding 16.80 sqm in area	34	sqm
99	10.9	Extra for providing grilled rolling shutters manufactured out of 8mm dia MS bar instead of laths as per design approved by engineer in charge (area of grill to be measured)	34	sqm
100	10.17	providing and fixing MS fan clamp type I or II of 16 mm dia MS bar bent to shape with hooked ends in RCC slabs, beams during laying including painting the exposed portion of of loop all as per standard design complete	34	each
101	10.18	Providing and fixing circular / Hexagonal cast iron or MS sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick MS sheet with its top surface hacked for proper bonding top lid shall be screws into the cast iron/ MS sheet box by means of 3.3 mm dia. round headed screws , one lock at the corners . clamp shall be made of 12mm dia MS bar bent to shape as per standard drawing.	34	each
102	10.19	Providing and fixing MS round holding down bolts with nuts and washer plates complete	34	kg
103	10.2	Providing and fixing bolts including nuts and washers complete	34	kg
104	10.21	Providing and fixing MS rivets of sizes in positio.	34	kg
105	10.22	Welding by gas or electric plant including transportation of plant at site etc. complete	34	cm
106	10.25	Steel work welded in built up sections/ frames work including cutting hoisting fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required,		
106.1	10.25.1	In stringers treads landing etc, of stair cases including use of chequered plate wherever required all complete	34	kg
106.2	10.25.2	In gratings frames guard bar ladder railing brackets gates and similar works	34	kg
107	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing balcony railing and staircase railing including applying a priming coat of approved steel primer		
107.1	10.26.1	M.S tube	34	kg
107.2	10.26.3	Gl pipes	34	kg
108	BHEL Approved Rate	Fabrication & erection of Structural steel sections including angles, channels, beams, rods or any other structural steel section forming an integral part and erecting the same as directed. (Raw steel will be issued by BHEL free of cost at stores)	13000	kgs
109	BHEL Approved Rate	Labour charges only--Repair of Entrance Gates & Grill gates etc., including tack welding, providing aldrop/ tower bolt, repairing /replacing hinges as per site condition.	34	Each
110	APSSR-2014-15/BMS-W.05	Labour charges for fixing grill doors with all necessary works like fixing hold fast into wall for necessary anchoring and making fit to the wall ..complete as directed by Engineer In charge.	1000	Kg
111	BHEL Approved Rate	Repairing of Car garage shutters with M.S. Rounds / Channels / Pipes / Sheet of 3.00 x 2.50 M approx.	10	Pair
112	BHEL Approved Rate	Manufacturing and fixing the garrage shutters of size 3.00 x 2.50 M apppx. (With M.S. Angels, M.S. Pipes, M.S. sheet which will be supplied free of cost).	10	Pair
113	APSSR-2014-15/BMS-W.05+BMM-V.14	Labour Charges - Fabricating and fixing of MS grill gates / door shutters of single leaf / double leaves, window or door frames / ornamental grills, tubular / structural trusses, columns gates etc, in position and shall be of approved quality and design including cost	10	kg

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		of fittings, fixtures and furniture, redoxide primer coat etc., complete as directed. (Raw steel will be issued by BHEL free of cost at stores)		
114	BHEL Approved Rate	Site welding 6 mm fillet / tack including cost of required materials at all the places as directed.	50	rmt
115	BHEL Approved Rate	Repairing including making locking arrangements to steel door shutters, sliding doors/ rolling shutters, M.S. gates such as hinges, aldrops, tower bolts or any suitable arrangements including gas cutting, welding etc complete as directed by the Engineer-in-charge	34	Each Shutter / gate
116	BHEL Approved Rate	Repairing the existing M.S. grill gates / door shutters of single leaf / double leaves, window or door frames M.S. Ornamental grills, M.S tubular gates in position including welding, cost of all fittings, fixtures like peg stays, handles, pivot handles, pivot hinges etc. for windows, towerbolts, aldrops, hinges, looking hooks etc for doors, complete as directed by Engineer -in-charge.	10	each
117	BHEL Approved Rate	Supply and fixing of Megic eyes of approved design including cost of all materials etc complete all as directed by engineer-in-charge.	10	each
FLOORING/TILE WORK				
118	11.3	Cement concrete flooring 1:2:4 (1cement 2 coarse sand 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry but excluding the cost of nosing of steps etc. complete.		
118.1	11.3.1	40mm thick with 20mm nominal size stone aggregate	34	sqm
119	11.6	Cement plaster skirting (upto 30cm height) with cement mortar 1:3 (1cement 3 coarse sand) finished with a floating coat of neat cement		
119.1	11.6.1	18mm thick	34	sqm
120	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy bottle green black of any size as approved by engineer in charge in skirting risers of steps and dados over 12mm thick bed of cement including pigment of matching shade etc. complete as per drawing specification and direction of engineer in charge	34	sqm
121	11.37	Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacture) of 1 st quality conforming IS 15622 of approved make in colours such as white Ivory grey fume red brown laid on 20mm thick cement mortar 1:4(1 cement 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	34	sqm
122	11.38	Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in all colours shades except white Ivory, grey, gume red brown laid on 20mm thick bed of cement mortar 1:4(1 cement 4 coarse sand) including pointing the jointing the joints with white cement and matching pigment etc. complete	34	sqm
123	11.41	Providing and laying polished vitrified floor tiles in different size (thickness to be specified by the manufacture) with water absorption's less than 0.08% and conforming to IS 15622 of approved make in all colours and shade, laid on 20mm thick cement mortar 1:4(1cement 4 coarse sand) including grouting the joints with white cement and matching pigment etc. complete		
123.1	11.41.1	Size of tile 50x50cm	35	sqm
123.2	11.41.2	Size of tile 60x60cm	35	sqm
123.3	11.41.3	Size of tile 80x80cm	35	sqm
123.4	11.41.4	Size of tile 100x100cm	35	sqm
124	11.42	Deduct for not using 20mm thick cement mortar 1:4(1 cement 4 coarse sand) bending in laying of floor tiles	34	sqm
125	11.43	Fixing glazed / ceramic vitrified floor tiles with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477 using 5 kg adhesive per sqm of tile area in average 3mm thickness	34	sqm
126	BHEL Approved Rate	Ellis pattern flooring 20 mm thick cement concrete using one cement and three granite stone metal chippings of 3 to 10mm guage including fine finishing, neat thread lining, curing, cost of all materials etc. complete.	34	One Sqm
127	BHEL Approved Rate	Flooring with rough shahabad stone slabs of 20 to 30 mm thick and approved quality over a base of cement mortar 1:6 and pointing with CM 1:3 including curing, cost of all materials etc. complete.	34	One Sqm
128	BHEL Approved Rate	Flooring / dadoing polished shahabad stone slabs of 25 mm thick (Tandur blue) uniform shade and approved quality, over a base of cement mortar 1:6 and pointing with cement paste including	34	One Sqm

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		curing, cost of all materials etc.complete.		
129	BHEL Approved Rate	Removing the existing flooring and redoing the same with Ellis pattern flooring 20 mm thick cement concrete using one cement and three granite stone chippings of 3 to 10 mm gauge including fine finishing, neat thread lining, curing, disposing off the spoils within a lead of 2 km etc. complete as directed by the Engineer- in-charge.	34	One Sqm
130	BHEL Approved Rate	Polishing to the existing mosaic / polished shahbad stone flooring using necessary / machines/materials such as carborandam stone etc including neat finishing etc complete as directed by Engineering - in - charge..	34	One Sqm
131	BHEL Approved Rate	Removing the exiting ceement flooring , supplying and laying of 25 mm thick (± 1 mm) designer floor tiles of approved colour and brand over a base of cement mortar 1:4, 20 mm thick, with required quantity of cement slurry for flooring including colouring pigment to match with tiles, cost of all materials etc complete all as directed by Engineer-in-charge.	34	One Sqm
132	DSR.11.37/Rate analysys	Labour charges for fixing tiles (both Vitrified /Ceramic tiles)- with cement mortar as base including pointing the joints with white cement and matching pigment, etc complete.	10	Sqm
133	11.37+15.23 RA	Labour charges Removing and refixing of damaged floor / wall tiles of various sizes with cement motor as base including pointing the joints with white cement and matching pigment, etc complete.	10	sqm
134	BHEL Approved Rate	Providing and laying Parking / interlocking tiles of 20 to 25mm thick depending on manufactures specification, over a bed of CC/CM, which will be paid spearetly under separate item, all as directed by the Engineer in charge.	34	sqm
135	8.2.	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms vanity counters window sills facias and similar locations of required size of approved shade colore and texture laid over 20mm thick base cement mortar 1:4(1cement 4 coarse sand) with joints treated with white cement mixed with matching pigment epoxy touch ups, including rubbing curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
135.1	8.2.1	Raj nagar plain white marble udaipur green marble / Zebra black marble		
135.2	8.2.1.1	Area of slab upto 0.50 sqm	34	sqm
135.3	8.2.2	Granite stone of any colour and shade		
135.4	8.2.2.2	Area of slab over 0.50 sqm	34	sqm
ROOFING				
136	12.41	Providing and fixing on wall face unplasticised rigid pvc rain water pipes conforming to IS 13592 type a including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion (i) single socketed pipes		
136.1	12.41.1	75mm diameter	34	mtr
136.2	12.41.2	110mm diameter	34	mtr
137	12.50	Providing and fixing precoated galvanised iron profile sheets (size,shape and pitch of corrugation as approved by Engineer-in-charge)0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 micronsepoxy primer on both side of the sheet and polyester top coat 15-18microns. Sheet should have protective guard film of 25 micronsminimum to avoid scratches during transportation and should besupplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling /self tappingscrews of size (5.5x 55 mm) with EPDM seal, complete upto anypitch in horizontal/ vertical or curved surfaces, excluding the cost ofpurlins, rafters and trusses and including cutting to size and shapewherever required.	10	sqm
138	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete		
138.1	12.51.1	Ridges plain (500 - 600mm)	10	mtr
138.2	12.51.2	Flashings/ Aprons.(Upto 600 mm)	10	mtr
138.3	12.51.3	North light curves	10	mtr
138.4	12.51.4	Barge board (Upto 300 mm)	10	mtr

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138.5	12.51.5	Crimp curve	10	mtr
138.6	12.51.6	Gutter .(600 mm over all girth)	10	mtr
139	BHEL Approved Rate	Providing impervious coat in CM 1:4, 20 mm thick using approved water proofing compound at one Kg/bag of cement when the roof slab is green including arranging proper slopes, for easy flow of rain water, curing etc complete.	34	One Sqm
140	BHEL Approved Rate	Labour charges for fixing AC sheet / Galvalumme sheet roofing and ceiling using 'J' bolts, nuts, bitumen / GI washers etc.complete, (only AC sheets/ Galvalume sheets and ridges will be supplied free of cost at BHEL stores) all as directed by Engineer - in - charge.	34	One Sqm
141	BHEL Approved Rate	Labour charges Fixing of Hi-rib s galvalume /Zincalume sheets of 0.5 mm tk. 1 mtr width and length upto 12 mts with factory cut and fixing to the roof shall be crest fixed to roofpurlins with number 12-14 x 55 mm polymer coated galvanised hex head self drilling screws with integral washers and EPDM seals (4 fasteners for support) for sheet etc., complete asdirected - For roofing, side cladding and louvers with necessary fixtures. All the safety measures should be taken care by the agency itself.	34	One Sqm
142	BHEL Approved Rate	Fixing North Light curves/ Barges in required girth with 0.5 mm galvalume sheets upto a length of 2.5 M having curved width upto 600 mm fixing to the steel members with self drilling / self stitching, fasteners at a maximum of 500 mm c/c along the length of capping,flashing etc.,complete as directed by Engineer-in-charge. including the cost of labouretc.,complete.(North Light Curves / Barges Will beissued free of cost by BHEL at their Stores).All the safety measures should be taken by the agency itself.	34	One Rmt
143	BHEL Approved Rate	Dismantling the existing garrage structural work, AC sheets and MS angles including stacking & handing over of service cable materials and disposal of debris all as directed by Engineering - in - charge.	10	Each Shed
144	BHEL Approved Rate	Providing and fixing in true horizontal level 600 mm x 600 mm false ceiling system manufactured by M/s. Armstrong World Industries using DUNE SUPREME RH 99 MICROLOOK EDGE WITH SILHOUETTE GRID, using hot dipped galvanized steel section, rotary stitched main tee of size 15mm x 42 mm web height, having 0.36 mm gauge at every 600 mm centre to centre maximum and rotary stitched cross tee of size 15 mm x 42 mm, having 0.33 mm gauge at every 600 mm. c/c. and wall angle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 600mm c/c. in both directions using 2.0 mm. thick pre-straightened GI wire, and laying Dune Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600mmx600mmx15mm having NRC 0.50, Light reflectance of >85% (WT), thermal conductivity k = 0.052-0.057 W/mOK, Humidity Resistance of 99% (having LIFETIME GUARANTEE against SAG), having Fire Performance CLASS O / CLASS 1 (BS 476), surface having 3 coats of white paint - crisp finely granulated with microperforations, back of the tile duly sanded with a coat of protective paint over the formed grid and complete in all respect ,Boards where light fixtures to be fixed shall be handed over to Department. M/s- Armstrong etc complete all as directed by Engineer-in-charge.	34	SQM
FINISHING				
145	13.1	12mm cement plaster of mix (In fine sand)		
145.1	13.1.1	1:4(1 cement 4 fine sand)	34	sqm
145.2	13.1.2	1:6 (1 cement: 6 fine sand)	34	sqm
146	13.2	15mm cement plaster on the rough side of single or half brick wall of mix		
146.1	13.2.1	1:4(1 cement 4 fine sand) (in coarse Sand)	34	sqm
146.2	13.2.2	1:6 (1 cement: 6 fine sand)	34	sqm
147	13.3	20mm cement plaster of mix (In Fine sand)		
147.1	13.3.1	1:4(1 cement 4 fine sand)	34	sqm
147.2	13.3.2	1:6(1 cement 6 fine sand)	34	sqm
		CEMENT PLASTER (IN COARSE SAND)		
148	13.4	12 mm cement plaster of mix :		
148.1	13.4.2	1:6 (1 cement: 6 coarse sand)	10	sqm
149	13.5	15 mm cement plaster on rough side of single or half brick wall of mix :		
149.1	13.5.2	1:6 (1 cement: 6 coarse sand)	10	sqm

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150	13.6	20mm cement plaster of mix (In Coarse sand)		
150.1	13.6.1	1:4(1 cement 4 coarse sand)	34	sqm
150.2	13.6.2	1:6(1 cement 6 coarse sand)	34	sqm
151	13.11	18mm cement plaster in two coats under layer 12mm thick cement plaster 1:5(1 cement 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6(1cement 6 fine sand)	34	sqm
152	13.12	18mm cement plaster in two coats under layer 12mm thick cement plaster 1:5(1 cement 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:3(1cement 3 coarse sand) finished rough with sponge.	34	sqm
153	13.16	6mm cement plaster of Mix		
153.1	13.16.1	1:3(1 cement 3 fine sand)	34	sqm
154	13.33	Pointing on stone work with cement mortar 1:3 (1 cement 3 fine sand)		
154.1	13.33.1	Flush / Ruled pointing	44	sqm
154.2	13.33.2	Raised and cut pointing	34	sqm
155	13.34	Raised and cut pointing on stone work in white cement mortar 1:3(1 white cement 3 marble dust)	34	sqm
156	13.37	White washing with lime to give an even shape		
156.1	13.37.1	New work (three or more coats)	34	sqm
157	13.39	Colour washing such as green , blue or buff to buff to give an even shape		
157.1	13.39.1	New work (two or more coats) with a base coat of white washing with lime	34	sqm
157.2	13.39.2	New work (two or more coats) with a base coat of whitening	34	sqm
158	13.41	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade		
158.1	13.41.1	New work (two or more coats) over and including priming coat with cement primer.	34	sqm
159	13.42	Distemping with 1st quality acrylic washable distemper (ready mixed) of approved manufacture and of required shade and colour complete as per manufacturer specification		
159.1	13.42.1	Two or more coats on new work	34	sqm
160	13.43	Applying one coat of cement primer of approved brand and manufacture on wall surface		
160.1	13.43.1	Cement primer	34	sqm
161	13.46	Finishing walls with Acrylic smooth exterior paint of required shade		
161.1	13.46.1	New work (two or more coat applied @ 1.67 ltr/ 10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/ 10sqms	34	sqm
162	BHEL Approved Rate	Painting the external wall surfaces by applying two or more coats of Acrylic smooth exterior paint (after completion of one coat prior clearance to be taken to apply the second coat with department officials) of BHEL supplied paint on existing old surface, including scrapping, cost of thinner, brushes labour, ladders, scaffolding, tools and other incidentals etc. complete up to 7m height including rectifying the wall cracks, patches etc with Birla wall care putty crack filler etc complete all as directed by Engineer-in-charge (Only Acrylic paint will be supplied by BHEL). All the safety precautions would be responsibility of the contractor.	34	Sqm
163	13.52	Finishing with epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat preparation fo surface etc. complete		
163.1	13.52.1	on steel work	34	sqm
163.2	13.52.2	on concrete work	34	sqm
164	13.55	Painting (two or more coats) on rain water soil waste and vent pipes and fitting with black anticorrosive bitumastic paint approved brand and manufacture over and including a priming of ready mixed zinc chromate yellow primer on new work		
164.1	13.55.1	100mm dia meter pipes	34	mtr
164.2	13.55.2	150mm dia meter pipes	34	mtr
165	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade (Iron work/Plastered surface/Signboards frames/wood work/Road speed breakers etc.)		
165.1	13.61.1	Two or more coats on new work	44	sqm

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166	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	34	sqm
167	13.61.1+10% EXTRA FOR SCAFFOLDING	Applying two or more coats of Synthetic Enamel Paint of given shade to old surfaces including scrapping, cost of thinner, brushes, labour tools, and other incidentals etc. complete up to 7m height. (Only Synthetic Enamel Paint will be supplied by BHEL, free of cost at their stores) etc. complete all as directed by Engineer-in-charge. All the safety precautions would be responsibility of the contractor.	5356	Sqm
168	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade as directed by Engineer In charge		
168.1	13.63.1	Two or more coats on new work	34	sqm
169	13.67	Varnishing with varnish of approved brand and manufacture		
169.1	13.67.1	Two or more coats of glue sizing with copal varnish over an under coat of flattening varnish	34	sqm
169.2	13.67.2	Two or more coats glue sizing with spar varnish or an under coat of flattening varnish	34	sqm
170	BHEL Approved Rate	Scrapping the existing paint surface, repairing the wall surface and supply and application of One coats of Altek Superfine lappam, applying one coat of required primer thorough polishing the area using emery papers of appropriate grade to get required level and finish of walls before painting the surfaces, as directed by the Engineer in charge etc complete.	34	sqm
171	BHEL Approved Rate	Scrapping the existing paint surface, repairing the wall surface and supply and application of Two coats of Altek Superfine lappam, applying one coat of required primer thorough polishing the area using emery papers of appropriate grade to get required level and finish of walls before painting the surfaces, as directed by the Engineer in charge etc complete.	34	sqm
172	BHEL Approved Rate	Providing & Applying two or more coats of Tractor emulsion paint of Approved shade including cost of all materials, labour etc, complete.	34	sqm
173	BHEL Approved Rate	Providing and applying altek lappam of 2 mm thickness over plastered surface to prepare the surface even and smooth including thorough scrapping to remove the old paint complete as directed by Engineer in charge.	34	Sqm
REPAIRS TO BUILDINGS				
174	14.26	Providing and fixing 25mm thick shutters for cup board etc		
174.1	14.26.1	Panelled or Panelled and glazed shutters		
174.2	14.26.1.1	Superior class teak wood including nickel plated bright finished MS piano hinges with necessary screws	34	sqm
174.3	14.26.1.2	1st class teak wood including nickel plated bright finished MS piano hinges with necessary screws	34	sqm
174.4	14.26.2	Glazed shutters		
174.5	14.26.2.1	Superior class teak wood including nickel plated bright finished MS piano hinges with necessary screws	34	sqm
174.6	14.26.2.2	1st class teak wood including nickel plated bright finished MS piano hinges with necessary screws	34	sqm
175	14.42.1	Old work (two or more coats)	10	sqm
175.1	14.42.2	Old work (one or more coats)	10	sqm
176	14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	34	sqm
177	14.45	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade		
177.1	14.45.1	old work (two or more coats)	34	sqm
178	14.46	Removing dry or oil bound distemper water proofing cement paint and the like by scrapping sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	34	sqm
179	14.54	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade		
179.1	14.54.1	one or more coats on old work	34	sqm
180	14.66	Finishing walls with Acrylic smooth exterior paint of required shade		
180.1	14.66.1	old work (two or more coats applied @ 1.67ltr/10sqm) on existing cement paint surface)	34	sqm
180.2	14.66.2	old work (one or more coat applied @0.90 ltr/ 10sqm)	34	sqm
181	13.61.1	Painting to black boards with one coat of black board paint of approved brand including cost of all materials etc., complete all as directed by Engineer-in-charge.	34	One Sqm
182	BHEL	Applying golden colour or other approved colour to statues from 3'	34	Nos

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	Approved Rate	height to 8' height statue painting including scrapping the old surface and applying one or more coats to give good appearance including cost of scaffolding cost of all material all as directed by Engineer-in-charge.		
183	BHEL Approved Rate	Providing gultas in traingular shape of base 150 mm and height 150 mm with cement mortar 1:4, including fine finishing, cost of all materials etc complete all as directed by Engineer-in-charge.	34	One Rmt
184	BHEL Approved Rate	Providng bands to slab / chajja projections in cement mortar 1:4, 20 mm thick and 20 mm wide including cost of all materials, curing etc complete all as directed by Engineer-in-charge.	34	One Rmt
185	BHEL Approved Rate	Flooring and skirting with 25 mm thick polished shahabad stone slabs (Tandur blue) of required sizes over a base of 20 mm thick cement mortar 1:6 including pointing in CM 1:2, curing, cost of all materials etc complete all as directed by Engineer-in-charge	34	One Sqm
186	BHEL Approved Rate	Rectifying the wall cracks by chipping off the existing plastered surfaces to the required width, depth and applying cement slurry in the cracks to the required depth, making good all damages and finishing to match with the existing one by plastering with CM 1:5; 12/15 mm thick and a coat of white wash / snowcem / distemper etc as the case may be as directed by the Engineer-in-charge.	34	One Sqm
187	BHEL Approved Rate	Crack filling without pressure grouting: Routing out the cracks with a mechanically operated groove cutter and sealing with expansive crack filling compound - CERA POLY CRACKFILLER or equivalent and tooling to finish neatly. Providing two top coats of CRACKFLEX, single component highly flexible membrane coating (for a width of 10 cms with the crack at the center) or equivalent as per manufacturer's recommendation and curing adequately. Rate quoted includes cost of material, labour charges, conveyance, tool and all other incidental charges etc complete all as directed by Engineering - in -charge. (local market rate)	34	Rmt
DISMANTLING AND DEMOLISHING				
188	15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineerin-charge.	10	cum
189	15.2	Demolishing concrete manually / by mechanical means including disposal of material within 50mtr lead as per direction of engineer in charge		
189.1	15.2.1	1:3:6 or richer mix	34	cum
189.2	15.2.2	1:4:8 or leaner mix	34	cum
190	15.3	Demolishing RCC work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge	34	cum
191	15.5	Extra for cutting reinforcement bars manually by mechanical means in RCC or RB work (payment shall be made on the cross sectional area of RCC or RB work) as per direction of engineer in charge	34	sqm
192	15.6	Extra for scrapping, cleaning and straightening reinforcement from RCC or RB work	34	kg
193	15.7	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge		
193.1	15.7.4	In cement mortar	34	cum
194	15.9	Demolishing stone rubble masonry manually by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge		
194.1	15.9.2	In cement mortar	34	cum
195	15.12	Dismantling door windows and clerestory windows (steel or wood) quantity of stacks of cleaned material will be measured)		
195.1	15.12.1	Of area 3sqm and below	34	each
195.2	15.12.2	Of area beyond 3sqm	34	each
196	15.13	Taking out doors windows and clerestory window shutters(steel or wood) including stacking within 50mtr lead		
196.1	15.13.1	Of area 3sqm and below	34	each
196.2	15.13.2	Of area beyond 3sqm	34	each
197	15.17	Dismantling steel work in single sections including dismembering and stacking within 50mtr lead in		
197.1	15.17.1	RS joists	34	kg
197.2	15.17.2	Channels angles tees and flats	34	kg
198	15.18	Dismantling steel work in built up sections in angles tees flats and	34	kg

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		channels including all gusset plates bolts nuts cutting rivets welding etc. including dismembering and stacking within 50mtr lead		
199	15.19	Dismantling steel work manually by mechanical means in built up section without dismembering and stacking within 50mtr lead as per direction of engineer in charge	34	kg
200	15.4	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- charge.	10	cum
201	15.40	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead		
201.1	15.40.1	Thickness up to 40 mm	10	sqm
202	15.41	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50mtr lead	34	sqm
203	15.44	Dismantling G.I pipes (external work) including excavation and refilling trenches after taking out the pipes manually by mechanical means including stacking of pipes within 50mtr lead as per direction of engineer in charge		
203.1	15.44.1	15mm to 40mm nominal bore	34	mtr
203.2	15.44.2	Above 40mm nominal bore	34	mtr
204	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50mtr lead	34	sqm
205	15.57	Dismantling aluminium / Gypsum partitions doors windows fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50mtr lead as directed by engineer in charge	34	sqm
206	15.58	Demolishing C.C/ RCC work by mechanical means and stockpiling at designated locations and disposal of dismantled materials upto a lead of 1000m , stacking serviceable and unserviceable material separately including cutting reinforcement bars	34	cum
SANITARY WORKS				
207	17.1	Providing and fixing water closet squatting pan(indian type WC pan) with 100mm sand cast iron P or S trap 10 ltr low level white PVC flushing cistern with manually controlled level device (handle level) conforming to IS 7231 with all fitting and fixtures complete including cutting and making good the walls and floors wherever required		
207.1	17.1.1	White vitreous china orissa pattern WC pan of size 580x440mm with integral type foot rests	34	each
208	17.2	Providing and fixing white vitreous china pedestal type water closet (european type WC pan) with seat and lid 10ltr low level white PVC flushing cistern with manually controlled device (handle level) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the wall and floors wherever required		
208.1	17.2.1	WC pan with ISI marked white solid plastic seat and lid	34	each
208.2	17.2.2	WC pan with ISI marked black solid plastic seat and lid	34	each
209	17.3	Providing and fixing white vitreous china pedestal type water closet (european type)with seat and lid 10 ltr low level white vitreous china flushing cistern and CP flush bend with fitting and CI brackets 40mm flush bend overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fitting and brackets cutting and making good the walls and floors wherever required		
209.1	17.3.1	WC pan with ISI marked white solid plastic seat and lid	34	each
209.2	17.3.2	WC pan with ISI marked black solid plastic seat and lid	34	each
210	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 430x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass unions and GI clamps complete including painting of fitting and brackets cutting and making good the walls and floors wherever required		
210.1	17.4.1	One urinal basin with 5 ltr white PVC automatic flushing cistern	34	each
211	17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern with fitting standard size CP brass flush pipe spreaders with unions and clamps (all in CP brass) with waste fitting as per IS 2556 CI trap with outlet grating and other couplings in CP brass including painting of fitting and cutting and making good the walls and floors wherever required		

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211.1	17.5.1	Single half stall urinal with 5 ltr PVC automatic flushing cistern	34	each
212	17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe white PVC automatic flushing cistern with fitting standard size GI flush pipe for back and front flush with standard spreader pipes with fitting GI clamps and CP brass coupling complete including painting of fitting and cutting and making good the walls and floors etc. wherever required		
212.1	17.6.1	Single squatting plate with 5 ltr PVC automatic flushing cistern	34	each
213	17.7	Providing and fixing wash basin with CI brackets 15mm CP brass pillar taps 32mm CP brass waste of standard pattern including painting of fittings and brackets cutting and making good the walls wherever require		
213.1	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	10	each
213.2	17.7.2	white vitreous china wash basin size 630x450mm with a single 15mm CP brass pillar tap	34	each
213.3	17.7.4	White vitreous china flat back wash basin size 550x400mm with single 15mm CP brass pillar tap	34	each
213.4	17.7.7	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap	10	each
213.5	17.7.8	White vitreous china surgeon type wash basin of size 660x460mm with a pair of 15mm CP brass pillar tap with elbow operated levers	34	each
213.6	17.7.11	Stainless steel AISI 304(18/8) wash basin size 530x345mm with single 15mm CP brass pillar tap	34	each
214	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	34	each
215	17.9	Providing and fixing kitchen sink with CI brackets CP brass china with rubber plug 40mm CP brass waste complete including painting the fittings and brackets cutting and making good the walls wherever required		
215.1	17.9.1	White glazed fire clay kitchen sink of size 600x450x250mm	34	each
216	17.1	Providing and fixing stainless steel A ISI 304(18/8) kitchen sink as per IS 13983 with CI brackets and stainless steel plug 40mm including painting of fitting and brackets cutting and making good the walls wherever required		
216.1	17.10.1	Kitchen sink with drain board		
216.2	17.10.1.3	510x1040mm bowl depth 200mm	34	each
216.3	17.10.2	Kitchen sink without drain board		
216.4	17.10.2.1	610x510mm bowl depth 200mm	34	each
216.5	17.10.2.2	610x460mm bowl depth 200mm	34	each
216.6	17.10.2.3	470x420mm bowl depth 178mm	34	each
217	17.11	Providing and fixing white vitreous china laboratory sink with CI brackets CP brass china with rubber plug 40mm CP brass waste and 40mm CP brass trap with necessary CP brass unions complete including painting of fitting and brackets cutting and making good the wall wherever required		
217.1	17.11.1	Size 450x300x150mm	34	each
217.2	17.11.2	Size 600x450x200mm	34	each
218	17.13	Dismantling, Providing and fixing white vitreous china water closet squatting pan (indian type)		
218.1	17.13.1	Long pattern WC pan of size 580mm	34	each
218.2	17.13.2	Orissa pattern WC pan of size 580x440mm	34	each
219	17.14	Extra for using coloured WC pan instead of white WC pan		
219.1	17.14.1	Orissa pattern WC pan 580x440mm	34	each
220	17.15	Providing and fixing white vitreous china pedestal type (european type/ wash down type) water closet pan	34	each
221	17.16	Extra for using coloured pedestal type WC pan (european type) with low level cistern of same colour instead of white vitreous china WC pan and cistern	34	each
222	17.17	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet		
222.1	17.17.1	250x130x30mm	34	pair
222.2	17.17.2	250x125x25mm	34	pair

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223	17.18	Providing and fixing PVC low level flushing cistern with manually controlled device (handle level) conforming to IS 7231 with all fittings and fixtures complete		
223.1	17.18.1	10 Ltr capacity white	34	each
223.2	17.18.2	10 Ltr capacity coloured	34	each
224	17.19	Providing and fixing controlled flush low level cistern made of vitreous china with all fitting complete		
224.1	17.19.1	10 Ltr (full flush) capacity white	34	each
224.2	17.19.2	10 Ltr (full flush) capacity coloured	34	each
225	17.2	Providing and fixing solid plastic seat with lid for pedestal type WC pan complete		
225.1	17.20.1	white solid plastic seat with lid	34	each
225.2	17.20.2	black solid plastic seat with lid	34	each
226	17.22	Providing and fixing GI inlet connection for flush pipe connecting with WC pan	34	each
227	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.	34	each
228	17.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe	34	each
229	17.25	Providing and fixing white vitreous china wash basin including making all connects but excluding the cost of fitting		
229.1	17.25.1	Flat back wash basin of size 630x450mm	34	each
229.2	17.25.2	Flat back wash basin of size 550x400mm	34	each
229.3	17.25.3	Angle back wash basin of size 600x480mm	34	each
229.4	17.25.4	Angle back wash basin of size 400x400mm	34	each
229.5	17.25.5	Flat back wash basin of size 450x300mm	34	each
229.6	17.25.6	Surgeon type wash basin of size 660x460mm	34	each
230	17.26	Providing and fixing kitchen sink including making all connections excluding cost of fittings		
230.1	17.26.1	White glazed fire clay sink of size 600x450x250mm	34	each
231	17.27	Providing and fixing white vitreous china laboratory sink including making all connections excluding excluding cost of fittings		
231.1	17.27.1	Size 450x300x150mm	34	each
231.2	17.27.2	Size 600x450x200mm	34	each
232	17.28	Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fitting complete		
232.1	17.28.1	semi rigid pipe		
232.2	17.28.1.1	32mm dia	34	each
232.3	17.28.1.2	40mm dia	34	each
232.4	17.28.2	Flexible pipe		
232.5	17.28.2.1	32mm dia	34	each
232.6	17.28.2.2	40mm dia	34	each
233	17.29	Providing and fixing 100mm sand cast iron grating for gully trap	34	each
234	17.3	Providing and fixing in position 25mm dia metre mosquito proof coupling of approved municipal design	34	each
235	17.31	Providing and fixing 600x450mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete	34	each
236	17.32	Providing and fixing mirror of superior glass (approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing		
236.1	17.32.1	circular shape 450mm dia	34	each
236.2	17.32.2	Rectangular shape 453x357mm	34	each
236.3	17.32.3	oval shape 450x350mm (outer dimensions)	34	each
236.4	17.32.4	Rectangular shape 1500x450mm	34	each
237	17.33	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with CP brass brackets and guard rail complete fixed with 40mm long screws rawl	34	each

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		plugs etc. complete		
238	17.34	Providing and fixing toilet paper holder		
238.1	17.34.1	CP brass	34	each
238.2	17.34.2	Vitreous china	34	each
239	17.35	Providing and fixing soil waste and vent pipes		
239.1	17.35.1	100mm dia		
239.2	17.35.1.1	sand cast iron S&S pipe as per IS 1729	34	mtr
239.3	17.35.1.2	Centrifugally cast (spun) iron socketed pipe as per IS 3989	34	mtr
239.4	17.35.2	75mm diametre		
239.5	17.35.2.1	sand cast iron S&S pipe as per IS 1729	34	mtr
239.6	17.35.2.2.	Centrifugally cast (spun) iron socketed pipe as per IS 3989	34	mtr
240	17.36	Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2(1 cement 2 fine sand) in SCI/CI pipes		
240.1	17.36.1	75mm dia pipe	34	each
240.2	17.36.2	100mm dia pipe	34	each
241	17.37	Providing and fixing MS holder bat clamps of approved design to sand cast iron/cast iron(spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.		
241.1	17.37.1	for 100mm dia pipe	34	each
241.2	17.37.2	for 75mm dia pipe	34	each
242	17.38	Providing and fixing bend of required degree with access door insertion rubber washer 3mm thick bolt and nuts complete		
242.1	17.38.1	100mm		
242.2	17.38.1.1	sand cast iron S&S pipe as per IS 1729	34	each
242.3	17.38.1.2	sand cast iron S&S pipe as per IS 3989	34	each
242.4	17.38.2	75mm diametre		
242.5	17.38.2.1	sand cast iron S&S pipe as per IS 1729	34	each
242.6	17.38.2.2	sand cast iron S&S pipe as per IS 3989	34	each
243	17.39	Providing and fixing plain bend of required degree		
243.1	17.39.1	100mm		
243.2	17.39.1.1	sand cast iron S&S pipe as per IS 1729	34	each
243.3	17.39.1.2	sand cast iron S&S pipe as per IS 3989	34	each
243.4	17.39.2	75mm diametre		
243.5	17.39.2.1	sand cast iron S&S pipe as per IS 1729	34	each
243.6	17.39.2.2	sand cast iron S&S pipe as per IS 3989	34	each
244	17.4	Providing and fixing heel rest sanitary bend		
244.1	17.40.1	100mm		
244.2	17.40.1.1	sand cast iron S&S pipe as per IS 1729	34	each
244.3	17.40.1.2	sand cast iron S&S pipe as per IS 3989	34	each
244.4	17.40.2	75mm diametre		
244.5	17.40.2.1	sand cast iron S&S pipe as per IS 1729	34	each
244.6	17.40.2.2	sand cast iron S&S pipe as per IS 3989	34	each
245	17.41	Providing and fixing double equal junction of required degree with access door insertion rubber washer 3 mm thick bolts and nuts complete		
245.1	17.41.1	100x100x100x100mm		
245.2	17.41.1.1	sand cast iron S&S aa per IS 1729	34	each
245.3	17.41.1.2	sand cast iron S&S as per IS 3989	34	each
245.4	17.41.2	75x75x75mm		

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245.5	17.41.2.1	sand cast iron S&S aa per IS 1729	34	each
245.6	17.41.2.2	sand cast iron S&S as per IS 3989	34	each
246	17.42	Providing and fixing double equal plain junction of required degree		
246.1	17.42.1	100x100x100x100mm		
246.2	17.42.1.1	sand cast iron S&S aa per IS 1729	34	each
246.3	17.42.1.2	sand cast iron S&S as per IS 3989	34	each
246.4	17.42.2	75x75x75mm		
246.5	17.42.2.1	sand cast iron S&S aa per IS 1729	34	each
246.6	17.42.2.2	sand cast iron S&S as per IS 3989	34	each
247	17.43	Providing and fixing single equal plain junction of required degree with access door insertion rubber washer 3 mm thick bolts and nuts complete		
247.1	17.43.1	100x100x100x100mm		
248.2	17.43.1.1	sand cast iron S&S aa per IS 1729	34	each
248.3	17.43.1.2	sand cast iron S&S as per IS 3989	34	each
248.4	17.43.2	75x75x75mm		
247.5	17.43.2.1	sand cast iron S&S aa per IS 1729	34	each
247.6	17.43.2.2	sand cast iron S&S as per IS 3989	34	each
248	17.44	Providing and fixing single equal plain junction of required degree		
248.1	17.44.1	100x100x100mm		
248.2	17.44.1.1	sand cast iron S&S aa per IS 1729	34	each
248.3	17.44.1.2	sand cast iron S&S as per IS 3989	34	each
248.4	17.44.2	75x75x75mm		
248.5	17.44.2.1	sand cast iron S&S aa per IS 1729	34	each
248.6	17.44.2.2	sand cast iron S&S as per IS 3989	34	each
249	17.45	Providing and fixing double unequal junction of required degree with access door insertion rubber washer 3mm thick bolts and nut complete		
249.1	17.45.1	100x100x75x75mm		
249.2	17.45.1.1	sand cast iron S&S aa per IS 1729	34	each
249.3	17.45.1.2	sand cast iron S&S as per IS 3989	34	each
249.4	17.46	Providing and fixing double unequal plain junction of required degree		
249.5	17.46.1	100x100x75x75mm		
249.6	17.46.1.1	sand cast iron S&S aa per IS 1729	34	each
249.7	17.46.1.2	sand cast iron S&S as per IS 3989	34	each
250	17.47	Providing and fixing single unequal junction of required degree with access door insertion rubber washer 3mm thick bolts and nut complete		
250.1	17.47.1	100x100x75mm		
250.1	17.47.1.1	sand cast iron S&S aa per IS 1729	34	each
250.2	17.47.1.2	sand cast iron S&S as per IS 3989	34	each
251	17.48	Providing and fixing single unequal junction of required degree		
251.1	17.48.1	100x100x75mm		
251.2	17.48.1.1	sand cast iron S&S aa per IS 1729	34	each
251.2	17.48.1.2	sand cast iron S&S as per IS 3989	34	each
252	17.49	Providing and fixing double equal plain invert branch of required degree		
252.1	17.49.1	100x100x100x100mm		
252.2	17.49.1.1	sand cast iron S&S aa per IS 1729	34	each
252.3	17.49.1.2	sand cast iron S&S as per IS 3989	34	each

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252.4	17.49.2	75x75x75x75mm		
252.5	17.49.2.1	sand cast iron S&S aa per IS 1729	34	each
252.6	17.49.2.2	sand cast iron S&S as per IS 3989	34	each
253	17.5	Providing and fixing single equal plain invert branch of required degree		
253.1	17.50.1	100x100x100mm		
253.2	17.50.1.1	sand cast iron S&S aa per IS 1729	34	each
253.3	17.50.1.2	sand cast iron S&S as per IS 3989	34	each
253.4	17.50.2	75x75x75mm		
253.5	17.50.2.1	sand cast iron S&S aa per IS 1729	34	each
253.6	17.50.2.2	sand cast iron S&S as per IS 3989	34	each
254	17.51	Providing and fixing double unequal invert branch of required degree		
254.1	17.51.1	100x100x75x75mm		
254.2	17.51.1.1	sand cast iron S&S aa per IS 1729	34	each
254.3	17.51.1.2	sand cast iron S&S as per IS 3989	34	each
255	17.52	Providing and fixing single unequal plain invert branch of required degree		
255.1	17.52.1	100x100x75mm		
255.2	17.52.1.1	sand cast iron S&S aa per IS 1729	34	each
255.3	17.52.1.2	sand cast iron S&S as per IS 3989	34	each
256	17.53	Providing and fixing sand cast iron and S&S off sets as per IS 1729		
256.1	17.53..1	76mm off sets		
256.2	17.53.1.1	with 75mm dia pipe	34	each
256.3	17.53.1.2	with 100mm dia pipe	34	each
256.4	17.53.2	114mm off sets		
256.5	17.53.2.1	with 75mm dia pipe	34	each
256.6	17.53.2.2	with 100mm dia pipe	34	each
256.7	17.53.3	152mm off sets		
256.8	17.53.3.1	with 75mm dia pipe	34	each
256.9	17.53.3.2	with 100mm dia pipe	34	each
257	17.54	Providing and fixing sand cast iron S&S off sets as per IS 3989		
257.1	17.54.1	75mm off sets		
257.2	17.54.1.1	with 75mm dia pipe	34	each
257.3	17.54.2	150mm off sets		
257.4	17.54.2.1	with 75mm dia pipe	34	each
257.5	17.54.2.2	with 100mm dia pipe	34	each
258	17.55	Providing and fixing door piece insertion rubber washer 3mm thick bolts and nuts complete		
258.1	17.55.1	100mm		
258.2	17.55.1.1	sand cast iron S&S pipe as per IS 1729	34	each
258.3	17.55.1.2	sand cast iron S&S pipe as per IS 3989	34	each
258.4	17.55.2	75mm		
258.5	17.55.2.1	sand cast iron S&S pipe as per IS 1729	34	each
258.6	17.55.2.2	sand cast iron S&S pipe as per IS 3989	34	each
259	17.56	Providing and fixing terminal guard		
259.1	17.56.1	100mm		
259.2	17.56.1.1	sand cast iron S&S pipe as per IS 1729	34	each
259.3	17.56.1.2	sand cast iron S&S pipe as per IS 3989	34	each
259.4	17.56.2	75mm		

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259.5	17.56.2.1	sand cast iron S&S pipe as per IS 1729	34	each
259.6	17.56.2.2	sand cast iron S&S pipe as per IS 3989	34	each
260	17.57	Providing and fixing collar		
260.1	17.57.1	100mm		
260.2	17.57.1.1	sand cast iron S&S pipe as per IS 1729	34	each
260.3	17.57.1.2	sand cast iron S&S pipe as per IS 3989	34	each
260.4	17.57.2	75mm		
260.5	17.57.2.1	sand cast iron S&S pipe as per IS 1729	34	each
260.6	17.57.2.2	sand cast iron S&S pipe as per IS 3989	34	each
261	17.58	Providing lead caulked joints to sand cast iron rain centrifugally cast (spun) iron pipes and fitting of diameter		
261.1	17.58.1	100mm	34	each
261.2	17.58.2	75mm	34	each
261.3	17.58.3	50mm	34	each
262	17.59	Providing and fixing MS stays and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter		
262.1	17.59.1	100mm	34	each
262.2	17.59.2	75mm	34	each
262.3	17.59.3	50mm	34	each
263	17.6	Providing and fixing trap of self cleansing design with screws down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors		
263.1	17.60.1	100mm inlet and 100mm outlet		
263.2	17.60.1.1	sand cast iron S&S as per IS 3989	34	each
263.3	17.60.1.2	sand cast iron S&S pipe as per IS 1729	34	each
263.4	17.60.2	100mm inlet and 75 mm outlet		
263.5	17.60.2.1	sand cast iron S&S as per IS 3989	34	each
263.6	17.60.2.2	sand cast iron S&S pipe as per IS 1729	34	each
265	17.61	cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6(1 cement 3 coarse sand 6 grade stone aggregate 12.5 mm nominal size) including necessary plaster and painting in cement mortar 1:4(1 cement 4 coarse sand)		
265.1	17.61.1	100mm	34	mtr
265.2	17.61.2	75mm	34	mtr
265.3	17.61.3	50mm	34	mtr
266	17.62	painting CI cistern with bitumastic or any other anti corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern flush pipe other fitting etc. complete for new work	34	each
267	17.63	Re-painting CI cistern with bitumastic or any other anti corrosive paint inside and white paint on the outside surface of the cistern flush pipe other fitting etc. complete including polishing of wooden seat and lid and cleaning of WC pan with acid wherever necessary	34	each
268	17.64	Repainting CI cistern with synthetic enamel paint of approved colour brand and manufacture on the outside surface fo cistern flush pipe other fitting etc. complete	34	each
269	17.65	painting sand cast iron / centrifugally cast (spun) iron soil waste vent pipes and fitting with paint of any colour such as chocolate grey or buff etc, over a coat of primer(of approved quality) for new work		
269.1	17.65.1	100mm dia meter pipes	34	mtr
269.2	17.65.2	75mm dia metre pipe	34	mtr
270	17.66	Repainting sand cast iron / centrifugally cast iron (spun) iron soil waste vent pipes and fitting with paint of any colour such as chocolate grey or buff etc.		
270.1	17.66.1	100mm dia meter pipes	34	mtr
270.2	17.66.2	75mm dia metre pipe	34	mtr
271	17.67	Repainting bath tub of size 1700x730x430mm with enamel paint	34	each

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272	17.68	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or european type water closet (angle indian WC pan) with seat lid with CP brass hinges and rubbers buffers 10ltr low level flushing cistern with fitting and brackets 40mm flush bend 20mm over flow pipe with specials of standard make and mosquito proof coupling of approved municippal design complete, including painting of fitting and brackets cutting and making good the walls and floors wherever required		
272.1	17.68.1	white vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and CP flush bend	34	each
273	17.69	Dismantling, Providing and fixing PTMT waste coupling for wash basin and sink of approved quality and colour		
273.1	17.69.1	waste coupling 31mm of 79mm length and 62mm breadth weighing not less than 45 grms	34	each
273.2	17.69.2	waste coupling 38mm of 83mm length and 77mm breadth weighing not less than 60grms	34	each
274	17.7	Dismantling, Providing and fixing PTMT bottle trap for wash basin and sink		
274.1	17.70.1	Bottle trap 31mm single piece moulded with height of 270mm effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal weighing not less than 260 grms	34	each
274.2	17.70.2	Bottle trap 38mm single piece moulded with height of 270mm effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal weighing not less than 263 grms	34	each
275	17.71	Dismantling, Providing and fixing PTMT liquid soap container 109mm wide 125mm high and 112mm distance from wall of standard shape with bracket of the same material with snap fitting of approved quality and colour weighing not less than 105grms	34	each
276	17.72	Dismantling, Providing and fixing PTMT towel ring trapezoidal shape 215mm long 200mm wide with a minimum distances of 37mm from wall face with concealed fitting arrangement of approved quality and colour weighing not less than 88 grms	34	each
277	17.73	Dismantling, Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour		
277.1	17.73.1	450mm long towel rail with total length of 495mm 78mm wide and effective height of 88mm weighing not less than 170grms	34	each
277.2	17.73.2	600mm long towel rail with total length of 645mm width 78mm and effective height of 88mm weighing not less than 190grms	34	each
278	17.74	Dismantling, Providing and fixing PTMT shelf 440mm long 124mm width and 36 mm height of approved quality and colour weighing not less than 300 grams	34	each
279	17.75	Dismantling, Providing and fixing PTMT 15mm urinal spreader size 95x69x100mm with 1/2" BSP thread and shapes weighing not less than 60 grms	34	each
280	17.76	Dismantling, Providing and fixing PTMT urinal cock of approved quality and colour		
280.1	17.76.1	15mm nominal bore 80mm long 42mm high and 30mm wide with BSP female threads weighing not less than 48grm	34	each
281	17.77	Dismantling, Providing and fixing MS holder bat clamp of approved design to sand cast iron cast iron (spun) pipes comprising of MS flat brackets made of 50x5mm flat of specified shape projecting 75mm outside the wall surface and fixed on wall with 4nos 6mm dia expansion hold fasteners including drilling necessary holes in brick wall CC/RCC surface and the cost of bolts etc. the pipe shall be fixed to the already fixed brackets with the help of 30mm x 1.6mm galvanised MS flats of specified shape and of total length 420mm and shall be fixed with MS nuts bolts and washers of size of size 25x6mm , one bolts on each side of the pipe		
281.1	17.77.1	total bracket length 580mm of approved shape and design (for single 100mm dia pipe)	34	each
281.2	17.77.2	total bracket length 810mm of approved shape and design (for two 100mm dia pipes)	34	each
281.3	17.77.3	total bracket length 1040mm of approved shape and design (for three 100mm dia pipes)	34	each
282	BHEL Approved Rate	Rectifying the dampness due to leaking joints of Nahany traps alkathin / lead pipe connections to W.C's joints in AC pipes embedded in flooring including chasing brick work / concrete and making good after repairs in cement mortar including cost of all materials, curing etc complete for all specials all as directed by Engineer-in-charge.(trap and PVC Pipe if replaced will be measured separately)	100	Each
283	BHEL Approved Rate	Dismantling and replacing with new ones of approved make including chasing of brick work / concrete, making good in CM cost		

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		of all materials, curing for the following items etc complete all as directed by Engineer-in-charge.		
283.1	BHEL Approved Rate	Wash hand basins of size 22"x16" (without fittings)	34	Each
283.2	BHEL Approved Rate	Wash hand basins of size 18"x12" (without fittings).	34	Each
283.3	BHEL Approved Rate	Indian water closet 630 mm / 580 mm	34	Each
283.4	BHEL Approved Rate	European Water closets complete all as directed by Engineer-in-charge.	34	Each
283.5	BHEL Approved Rate	Standing type white glazed flat back urinals.	34	Each
283.6	BHEL Approved Rate	Porcelain 'P' trap of size 4"	34	Each
283.7	BHEL Approved Rate	Orissa Pan of approved make and size 580 x 440 mm	34	Each
284	BHEL Approved Rate	SWG gully traps 6"x6" or 4"x4" with CI frame and cover.	34	Each
285	BHEL Approved Rate	Fixing of white coloured PVC low level flushing cistern 10 lit capacity supplied from BHEL stores complete all as directed by Engineer-in-charge.	34	Each
286	17.9/RA	labour charges for Fixing kitchen black stone sinks of 1/2" thick, 24" x 18" x 7" with CI brackets CP brass china with CP brass waste complete including painting the fittings and brackets cutting and making good the walls wherever required. (Black stone sink along with waste water pipe,waste coupling and brackets will be free issue from BHEL store).	34	Each
287	BHEL Approved Rate	Dismantling and replacing with new ones of approved make including cost of all materials etc complete all as directed by Engineer-in-charge.	10	
287.1	BHEL Approved Rate	1/2" C.P. pillar taps (500 gms) SEIKO DELUX HEAVY DUTY.	34	Each
287.2	BHEL Approved Rate	1/2" brass stop cock (400 gms)	34	Each
287.3	BHEL Approved Rate	3/4" brass stop cock.	34	Each
287.4	BHEL Approved Rate	1/2" X 18" PVC pipe connections. (Heavy duty).	34	Each
287.5	BHEL Approved Rate	PVC flexible pipe 32 mm dia.	34	Each
287.6	BHEL Approved Rate	3/4" polymer ball cock of ISI makes approved brand.	34	Each
287.7	BHEL Approved Rate	1/2" polymer ball cock of ISI makes approved brand.	34	Each
287.8	BHEL Approved Rate	E.W.C seat covers (solid) of any shade.	34	Each
287.9	BHEL Approved Rate	CP consealed stock cock 1/2" dia with internal brass threadings.	34	Each
287.10	BHEL Approved Rate	Hot and cold mixing vlave of SEIKO DELUX make.	34	Each
287.11	BHEL Approved Rate	C.P. waste coupling 1 1/4" dia (32 mm).	34	Each
287.12	BHEL Approved Rate	C.P. Nahani trap jalise 5" dia.	34	Each
287.13	BHEL Approved Rate	Hot water connections.	34	Each
287.14	BHEL Approved Rate	C.I. brackets.	34	Each
287.15	BHEL Approved Rate	Porcelain foot rests 250 x 125 x 25 mm	34	Each
287.16	BHEL Approved Rate	1/2" C.I bib taps with brass internal, turning (Alto brand or equivalent).	34	Each
287.17	BHEL Approved Rate	1/2" Polymet bib taps (PTMT material) prayag make.	34	Each
287.18	BHEL Approved Rate	PVC shower swing type for the 1/2" 3/4" pipe (Prayag make).	34	Each
287.19	BHEL Approved Rate	1/2" C.I. stop cock with brass internal turnings (Alto or equivalent brand).	34	Each
288	BHEL Approved Rate	PVC syphon set suitable for PVC/CI law down flush tank of 10 litres capacity with all fittings etc.	34	Each
289	BHEL Approved Rate	Supplying and fixing of PVC balls ISI marked for ball cocks in over head tanks and flush tanks for 20 mm dia.etc. complete all as directed by Engineer-in-charge.	34	Each
290	BHEL Approved Rate	Supplying and fixing CI Nahany trap 76 mm (3") dia in cement concrete 1:2:4 and 12.7 mm (5") dia CI grating hinged to Nahany trap including breaking of the flooring and redoing the same wherever necessary etc complete all as directed by Engineer-in-	34	Each

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		charge.		
291	BHEL Approved Rate	Removing and refixing GI pipe 13 to 40 mm dia including cost of jointing materials such as specials like collars, elbows, bends etc complete all as directed by Engineer-in-charge.	34	One Rmt
292	BHEL Approved Rate	Supplying and fixing Telephonic shower including cost of all materials and fixtures and fittings etc complete all as directed by Engineer-in-charge.	34	Each
293	BHEL Approved Rate	Providing PVC storage tank covers located over the buildings to suit existing PVC storage tanks with nut and bolts etc complete all as directed by Engineer-in-charge.	34	Each
294	BHEL Approved Rate	Dismantling of the existing AC/PVC Pipe (old pipes are to be handed over to department as per instructions of the Engineer-in-charge) and supplying & fixing of 75 mm dia Prince/ Sudhakar make or equivalent quality as approved by Engineer-in-charge of PVC / SWR pipes (as per ISI standards) 4 kgs/ cm ² . etc complete all as directed by Engineer-in-charge.	34	Rmt
295	BHEL Approved Rate	Dismantling of the existing AC /PVC Pipes (the pipes are to be returned to department as per instructions of the Engineer-in-charge) and Supply & Fixing Prince / Sudhakar make or equivalent approved quality PVC / SWR pipes (as per ISI standards) 4 kg / cm ² ... 110 mm dia etc complete all as directed by Engineer-in-charge.	34	Rmt
296	BHEL Approved Rate	Dismantling of the existing specials and Supplying & Fixing Prince / Sudhakar make or equivalent approved quality (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.		
296.1	BHEL Approved Rate	75 mm dia plain bend.	34	Each
296.2	BHEL Approved Rate	75 mm dia plug bend.	34	Each
296.3	BHEL Approved Rate	75 mm dia off-set.	34	Each
296.4	BHEL Approved Rate	75 mm dia Single 'Y' with door.	34	Each
296.5	BHEL Approved Rate	75 mm dia pipe clip.	34	Each
296.6	BHEL Approved Rate	75 mm dia single tee with door.	34	Each
296.7	BHEL Approved Rate	110 mm dia plain bend.	34	Each
296.8	BHEL Approved Rate	110 mm dia plug bend.	34	Each
296.9	BHEL Approved Rate	110 mm dia Single 'Y' with door.	34	Each
296.10	BHEL Approved Rate	110 mm dia Double 'Y' with door.	34	Each
296.11	BHEL Approved Rate	110 mm dia off-set.	34	Each
296.12	BHEL Approved Rate	110 mm dia vent cowl.	34	Each
296.13	BHEL Approved Rate	110 mm dia pipe clip.	34	Each
296.14	BHEL Approved Rate	110 mm dia single tee with door.	34	Each
296.15	BHEL Approved Rate	110 mm dia coupler.	34	Each
WATER SUPPLY WORKS				
297	18.1	Providing and fixing Polyethene -Aluminium-Polythelene(PE-AL-PE) Complete Pressure Pipe conforming to IS -15450 U.V.stabilized for hot & cold water supply, capable to withstand temperature up to 80 C including all special fittings of composite material (engineering plastic bland and brass inserts wherever required) e.g.elbows,tees,reducers, couplers & connectors etc.with clamp at 1.00metre spacing. this includes testing of joint complete as per direction of the Engineer in charge		
		Internal work-Exposed on wall		
297.1	18.1.1	1216(16 mm OD) pipe	34	metre
297.2	18.1.2	1620 (20 mm OD) pipe	34	metre
297.3	18.1.3	2025 (25 mm OD) pipe	34	metre
297.4	18.1.4	2532 (32 mm OD) pipe	34	metre
297.5	18.1.5	3240 (40 mm OD) pipe	34	metre

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297.6	18.1.6	4050 (50 mm OD) pipe	34	metre
298	18.2	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V.stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.		
		Concealed work including cutting chases and making good the wall etc.		
298.1	18.2.1	1216 (16mm OD) Pipe	34	metre
298.2	18.2.2	1620 (20 mm OD) pipe	34	metre
298.3	18.2.3	2025(25mm OD) Pipe	34	metre
298.4	18.2.4	2532(32mm OD) Pipe	34	metre
299	18.7	Providing and fixing chlorinted polyvinyl chloride (CVCV) pipes , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fitting including of pipes with clamps at 1.00m spacing. This including jointing of pipes and fitting with one step CPVC solvent cement and testing of joints completes as per direction of engineer in charge		
		Internal work-Exposed on wall		
299.1	18.7.1	15mm nominal outer dia. Pipes	34	mtr
299.2	18.7.2	20mm nominal outer dia. Pipes	34	mtr
299.3	18.7.3	25mm nominal outer dia. Pipes	34	mtr
299.4	18.7.4	32mm nominal outer dia. Pipes	34	mtr
299.5	18.7.5	40mm nominal outer dia. Pipes	34	mtr
299.6	18.7.6	50mm nominal outer dia. Pipes	34	mtr
300	18.8	providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain and brass threaded fitting i/c fixing the pipe with clamps at 1.00m spacing. This including jointing of pipes and fitting with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of engineer in charge		
		Concealed work including cutting chases and making good the walls etc.		
300.1	18.8.1	15mm nominal outer dia. Pipes	34	mtr
300.2	18.8.2	20mm nominal outer dia. Pipes	34	mtr
300.3	18.8.3	25mm nominal outer dia. Pipes	34	mtr
300.4	18.8.4	32mm nominal outer dia. Pipes	34	mtr
301	18.10	Providing and fixing GI pipes complete with GI fitting and clamps including cutting and making good the walls etc. Internal work-Exposed on wall		
301.1	18.10.1	15mm nominal bore	34	mtr
301.2	18.10.2	20mm nominal bore	34	mtr
301.3	18.10.3	25mm nominal bore	34	mtr
301.4	18.10.4	32mm nominal bore	34	mtr
301.5	18.10.5	40mm nominal bore	34	mtr
301.6	18.10.6	50mm nominal bore	34	mtr
302	18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :		
302.1	18.11.1	15 mm dia nominal bore	10	mtr
302.2	18.11.2	20 mm dia nominal bore	10	mtr
303	18.12	Providing and fixing GI pipe complete with GI fitting including trenching and refilling etc. External work		
303.1	18.12.1	15mm nominal bore	34	mtr

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303.2	18.12.2	20mm nominal bore	34	mtr
303.3	18.12.3	25mm nominal bore	34	mtr
303.4	18.12.4	32mm nominal bore	34	mtr
303.5	18.12.5	40mm nominal bore	34	mtr
303.6	18.12.6	50mm nominal bore	34	mtr
303.7	18.12.7	65mm nominal bore	34	mtr
303.8	18.12.8	80mm nominal bore	34	mtr
304	18.13	Making connection of GI distribution branch with GI main of following sizes by providing and fixing tee including cutting and threading the pipe ect complete		
304.1	18.13.1	25 to 40mm nominal bore	34	each
304.2	18.13.2	50 to 80mm nominal bore	34	each
305	18.15	Providing and fixing brass bib cock of approved quality:		
305.1	18.15.1	15 mm nominal bore	34	each
305.2	18.15.2	20 mm nominal bore	34	each
305.3	18.16	Providing and fixing brass stop cock of approved quality :		
305.4	18.16.1	15 mm nominal bore	34	each
305.5	18.16.2	20 mm nominal bore	34	each
306	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)		
306.1	18.17.1	25 mm nominal bore	34	each
306.2	18.17.2	32 mm nominal bore	34	each
306.3	18.17.3	40 mm nominal bore	34	each
306.4	18.17.4	50 mm nominal bore	34	each
306.5	18.17.5	65 mm nominal bore	34	each
306.6	18.17.6	80 mm nominal bore	34	each
307	18.18	Providing and fixing ball valve (brass) of approved quality ,High or low pressure ,with plastic floats complete :		
307.1	18.18.1	15 mm nominal bore	34	each
307.2	18.18.2	20 mm nominal bore	34	each
307.3	18.18.3	25 mm nominal bore	34	each
308	18.19	Providing and fixing gun metal non return of approved quality (screwed end)		
308.1	18.19.1	25 mm nominal bore		
308.2	18.19.1.1	Horizontal	34	each
308.3	18.19.1.2	vertical	34	each
308.4	18.19.2	32 mm nominal bore		
308.5	18.19.2.1	Horizontal	34	each
308.6	18.19.2.2	vertical	34	each
308.7	18.19.3	40 mm nominal bore		
308.8	18.19.3.1	Horizontal	34	each
308.9	18.19.3.2	vertical	34	each
308.10	18.19.4	50 mm nominal bore		
308.11	18.19.4.1	Horizontal	34	each
308.12	18.19.4.2	vertical	34	each
308.13	18.19.5	65 mm nominal bore		
308.14	18.19.5.1	Horizontal	34	each
308.15	18.19.5.2	vertical	34	each
308.16	18.19.6	80 mm nominal bore		
308.17	18.19.6.1	Horizontal	34	each

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308.18	18.19.6.2	vertical	34	each
309	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions		
309.1	18.21.1	30 cm length		
309.2	18.21.1.1	15 mm nominal bore	34	each
309.3	18.21.1.2	20 mm nominal bore	34	each
309.4	18.21.2	45 cm length		
309.5	18.21.2.1	15 mm nominal bore	34	each
309.6	18.21.2.2	20 mm nominal bore	34	each
310	18.22	Providing and fixing CP brass shower rose with 15 or 20mm inlet		
310.1	18.22.1	100 mm dia meter	34	each
310.2	18.22.2	150 mm dia meter	34	each
311	18.23	laying in position centrifugally cast spun iron S&S or flanged pipes(excluding cost of pipe)	34	quintal
312	18.24	Laying in position S&S or flanged CI special such as tees bends collars tapers and caps etc. (excluding cost fo specials)	34	quintal
313	18.25	Providing and laying S&S CI standard specials such as tees bends collars tapers caps etc., (Heavy class)		
313.1	18.25.1	Upto 300mm dia	34	quintal
313.2	18.25.2	over 300mm dia	34	quintal
314	18.26	Providing and laying flanged CI standard specials such as tees bends collars tapers caps etc. suitable for flanges jointing as per IS 1538		
314.1	18.26.1	Upto 300mm dia	34	quintal
314.2	18.26.2	over 300mm dia	34	quintal
315	18.27	Providing and laying S&S centrifugly cast (spun) iron pipes (class LA) conforming to IS 1536		
315.1	18.27.1	100 mm dia pipe	34	mtr
315.2	18.27.2	125 mm dia pipe	34	mtr
315.3	18.27.3	150 mm dia pipe	34	mtr
315.4	18.27.4	200 mm dia pipe	34	mtr
315.5	18.27.5	250 mm dia pipe	34	mtr
315.6	18.27.6	300 mm dia pipe	34	mtr
316	18.28	Providing lead caulked joints to spun iron or CI pipes and specials including testing of joints but excluding the cost of pig lead		
316.1	18.28.1	100 mm diameter pipe	34	each
316.2	18.28.2	125 mm diameter pipe	34	each
316.3	18.28.3	150 mm diameter pipe	34	each
316.4	18.28.4	200 mm diameter pipe	34	each
316.5	18.28.5	250 mm diameter pipe	34	each
316.6	18.28.6	300 mm diameter pipe	34	each
316.7	18.28.7	350 mm diameter pipe	34	each
317	18.29	Supplying pig lead at site of work	32	quintal
318	18.3	Providing flanged joints to double flanged CI / DI pipes and specials including testing of joints		
318.1	18.30.1	80 mm diameter pipe	34	each
318.2	18.30.2	100 mm diameter pipe	34	each
318.3	18.30.3	125 mm diameter pipe	34	each
318.4	18.30.4	150 mm diameter pipe	34	each
318.5	18.30.5	200 mm diameter pipe	34	each
318.6	18.30.6	250 mm diameter pipe	34	each
318.7	18.30.7	300 mm diameter pipe	34	each
318.8	18.30.8	350 mm diameter pipe	34	each

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319	18.31	Providing and fixing CI sluice valves (with cap) complete with bolts nuts rubber insertions etc. (the tail pieces if required will be paid separately)		
319.1	18.31.1	100 mm dia pipe		
319.2	18.31.1.1	Class I	34	each
319.3	18.31.1.2	Class II	34	each
319.4	18.31.2	125 mm dia pipe		
319.5	18.31.2.1	Class I	34	each
319.6	18.31.2.2	Class II	34	each
319.7	18.31.3	150 mm dia pipe		
319.8	18.31.3.1	Class I	34	each
319.9	18.31.3.1	Class II	34	each
319.10	18.31.4	200 mm dia pipe		
319.11	18.31.4.1	Class I	34	each
319.12	18.31.4.2	Class II	32	each
319.13	18.31.5	250 mm dia pipe		
319.14	18.31.5.1	Class I	32	each
319.15	18.31.5.2	Class II	32	each
319.16	18.31.6	300 mm dia pipe		
319.17	18.31.6.1	Class I	32	each
319.18	18.31.6.2	Class II	32	each
320	18.32	Constructing masonry chamber 30x30x50 cm inside with 75 class designation brick work in cement mortar 1:4(1 cement 4 coarse sand) for stop cock with CI surface box 100x100x75mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and 12mm thick finished with a floating coat of neat cement complete as per standard design		
320.1	18.32.1	With FPS bricks	34	each
321	18.33	Constructing masonry chamber 60x60x75 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design		
321.1	18.33.1	With FPS bricks	34	each
322	18.34	Constructing masonry chamber 90x90x100 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design		
322.1	18.34.1	With FPS bricks	33	each
323	18.35	Constructing masonry chamber 120x120x100 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design		

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323.1	18.35.1	With FPS bricks	34	each
324	18.36	Constructing masonry chamber 60x60x75 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design		
324.1	18.36.1	With FPS bricks	34	each
325	18.37	Constructing masonry chamber 60x45x50 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design		
325.1	18.37.1	With FPS bricks	34	each
326	18.46	Providing and fixing GI union in GI pipe including cutting and threading the pipe and making long screws etc. complete (new work)		
326.1	18.46.1	15 mm nominal bore	34	each
326.2	18.46.2	20 mm nominal bore	34	each
326.3	18.46.3	25 mm nominal bore	34	each
326.4	18.46.4	32 mm nominal bore	34	each
326.5	18.46.5	40 mm nominal bore	34	each
326.6	18.46.6	50 mm nominal bore	34	each
326.7	18.46.7	65 mm nominal bore	34	each
326.8	18.46.8	80 mm nominal bore	34	each
327	18.47	Providing and fixing GI union in existing GI pipe line cutting and threading the pipe and making long screws including excavation refilling the earth or cutting of wall and making good the same complete wherever required		
327.1	18.47.1	15 mm nominal bore	34	each
327.2	18.47.2	20 mm nominal bore	34	each
327.3	18.47.3	25 mm nominal bore	34	each
327.4	18.47.4	32 mm nominal bore	34	each
327.5	18.47.5	40 mm nominal bore	34	each
327.6	18.47.6	50 mm nominal bore	34	each
327.7	18.47.7	65 mm nominal bore	34	each
327.8	18.47.8	80 mm nominal bore	34	each
328	18.49	Providing and fixing CP brass bib cock of approved quality conforming to IS 8931		
328.1	18.49.1	15 mm nominal bore	34	each
329	18.5	Providing and fixing CP brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810grms		
329.1	18.50.1	15 mm nominal bore	34	each
330	18.51	Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms		
330.1	18.51.1	15 mm nominal bore	34	each
331	18.52	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make conforming to IS 8931		
331.1	18.52.1	15 mm nominal bore	34	each
332	18.53	Providing and fixing CP brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931a) 15mm nominal bore		
332.1	18.53.1	15mm nominal bore	34	each

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333	18.54	Providing and fixing PTMT bib cock of approved quality and colour		
333.1	18.54.1	15mm nominal bore, 86mm long weighing not less than 88gms	34	each
333.2	18.54.2	15mm nominal bore, 122mm long weighing not less than 99gms	34	each
333.3	18.54.3	15mm nominal bore, 165mm long weighing not less than 110gms	34	each
333.4	18.54.4	15mm nominal bore, 90mm long weighing not less than 93gms	34	each
334	18.55	Providing and fixing PTMT stop cock of approved quality and colour		
334.1	18.55.1	15mm nominal bore, 86mm long weighing not less than 88gms	34	each
334.2	18.55.2	20mm nominal bore, 89mm long weighing not less than 88gms	34	each
334.3	18.55.3	concealed stop cock, 15mm nominal bore, 108mm long weighing not less than 108gms	34	each
335	18.56	Providing and fixing PTMT pillar cock of approved quality and colour		
335.1	18.56.1	15mm nominal bore, 107mm long weighing not less than 110gms	34	each
335.2	18.56.2	15mm nominal bore, 125mm long weighing not less than 120gms	34	each
336	18.57	Providing and fixing PTMT push cock of approved quality and colour		
336.1	18.57.1	15mm nominal bore, 98mm long weighing not less than 75gms	34	each
336.2	18.57.2	15mm nominal bore, 80mm long weighing not less than 46gms	34	each
337	18.58	Providing and fixing PTMT grating of approved quality and colour .		
337.1	18.58.1	Circular type		
337.2	18.58.1.1	100 mm nominal dia .	34	each
337.3	18.58.1.2	125 mm nominal dia with 25mm waste hole	34	each
337.4	18.58.2	Rectangular type with openable circular lid .		
337.5	18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating	34	each
338	18.6	Providing and fixing enclosed type water meter (bulk type) conforming to IS 2373 and tested by municipal board complete with bolts nuts rubber insertions etc. (the tail pieces if required will be paid separately)		
338.1	18.60.1	80 mm nominal bore	34	each
338.2	18.60.2	100 mm nominal bore	34	each
339	18.61	Providing and fixing CI dirt box stairner for bulk type water meter with nuts bolts rubber insertions ect complete conforming to IS 2373		
339.1	18.61.1	80mm dia	34	each
339.2	18.61.2	100mm dia	34	each
340	18.62	Providing and fixing PTMT ball cock of approved quality colour and make complete with Epoxy coated aluminium rod with L.P/ H.P.H.D plastic ball		
340.1	18.62.1	15mm nominal bore, 105mm long weighing not less than 138gms	34	each
340.2	18.62.2	20mm nominal bore, 120mm long weighing not less than 198gms	34	each
341	18.64	Providing and fixing PTMT swivelling shower 15mm nominal bore weighing not less than 40 gms	33	each
342	18.65	Providing and fixing PTMT soap Dish holder having length of 138mm breadth 102mm height of 75mm with concealed fitting arrangement. Weighing not less than 106gms	34	each
343	18.66	Providing and laying S&S CI standard specials such as tees bends collars tapers and caps etc suitable for flanged jointing as per IS 1538		
343.1	18.66.1	Upto 300mm dia	34	quintal
343.2	18.66.2	Above 300mm dia	34	quintal
344	18.74	Providing and fixing unplasticised PVC connection pipe with PTMT nuts collar and bush of approved quality and colour		
344.1	18.74.1	15mm nominal bore with 30cm length	34	each
344.2	18.74.2	15mm nominal bore with 45 cm length	34	each
345	18.75	Providing and fixing PTMT extension nipple for water tank pipe fitting of approved quality and colour		
345.1	18.75.1	15mm nominal bore. weighing not less than 32gms	34	each
345.2	18.75.2	20mm nominal bore. weighing not less than 40gms	34	each

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345.3	18.75.3	25mm nominal bore. weighing not less than 62gms	34	each
346	18.76	Cutting holes up to 30x 30 cm in walls including making good the same		
346.1	18.76.1	with FPS bricks	34	each
347	18.77	Cutting holes up to 15 x 15 cm in RCC floors and roofs for passing drain pipe etc, and repairing the holes after insertion of drain pipe etc. with cement concrete 1:2:4(1cement 2 coarse sand 4 grade stone aggregate 20mm nominal size) including finishing complete so as to make it leak proof	34	each
348	18.83	Labour for cutting CI pipe with steel saw		
348.1	18.83.1	80 mm dia meter C.I pipe	25	each cut
348.2	18.83.2	100 mm dia meter C.I pipe	25	each cut
348.3	18.83.3	125 mm dia meter C.I pipe	25	each cut
348.4	18.83.4	150 mm dia meter C.I pipe	25	each cut
348.5	18.83.5	200 mm dia meter C.I pipe	25	each cut
348.6	18.83.6	250 mm dia meter C.I pipe	25	each cut
348.7	18.83.7	300 mm dia meter C.I pipe	25	each cut
348.8	18.83.8	350 mm dia meter C.I pipe	25	each cut
349	BHEL Approved Rate	Labour charges for erection PVC tanks-1000Lts including transportation from Dept stores to work spot (including all necessary fittings and specials like ball cock, nipples..etc).	25	Each
350	17.18.1/RA	Only Labour charges for erection & commissioning of PVC flush tanks. (Flush tank & all required materials will be issued by BHEL at their stores).	25	Each
351	BHEL Approved Rate	Supply & fixing of brass spindle rods for 3" to 14" valves, including machine threading and finishing and with check nut as per site requirement. (Finished item weight will be measured for payment)	10	kg
352	BHEL Approved Rate	Supply & Fixing of 114mm Alkthene pipes	25	Rmt
DRAINAGE WORKS				
353	19.1	Providing and laying and jointing glazed stoneware pipes grade "A" with stiff mixture of cement mortar in the proportion of 1:1 (1 cement 1 fine sand) including testing of joints etc. complete		
353.1	19.1.1	100 mm diameter	34	mtr
353.2	19.1.2	150 mm diameter	34	mtr
353.3	19.1.3	200 mm diameter	34	mtr
353.4	19.1.4	250 mm diameter	34	mtr
353.5	19.1.5	300 mm diameter	34	mtr
354	19.4	Providing and fixing square mouth SW gully trap grade :A: complete with CI grating brick masonry chamber with water tight CI cover with frame of 300x300mm size(inside) the weighing of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design (RCC cover in places of CI cover)		
354.1	19.4.1	100x100mm size P type		
354.2	19.4.1.1	With FPS bricks class designation 75	34	each
354.3	19.4.1.2	with sewer bricks conforming to IS 4885	34	each
354.4	19.4.2	150x100mm size P type		
354.5	19.4.2.1	With FPS bricks class designation 75	34	each
354.5	19.4.2.2	with sewer bricks conforming to IS 4885	34	each
354.6	19.4.3	180x150mm size P type		
354.7	19.4.3.1	With FPS bricks class designation 75	34	each
354.8	19.4.3.2	with sewer bricks conforming to IS 4885	34	each
355	19.5	Dismantling of old SW pipe including breaking of joints and bed concrete stacking of useful materials near the site within 50m lead and disposal of unservicable materials into municipal dumps		
355.1	19.5.1	100 mm diameter	34	mtr
355.2	19.5.2	150 mm diameter	34	mtr
355.3	19.5.3	200 mm diameter	34	mtr

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355.4	19.5.4	250 mm diameter	34	mtr
355.5	19.5.5	300 mm diameter	34	mtr
355.6	19.5.6	350 mm diameter	34	mtr
355.7	19.5.7	400 mm diameter	34	mtr
355.8	19.5.8	450 mm diameter	34	mtr
356	19.6	Providing and laying non- pressure NP2 class (light duty) RCC pipes with collars joints with stiff mixture of cement mortar in the proportion of 1:2 (1 cement 2 fine sand) including testing of joints etc, complete		
356.1	19.6.1	100 mm dia RCC pipe	34	mtr
356.2	19.6.2	150 mm dia RCC pipe	34	mtr
356.3	19.6.3	250 mm dia RCC pipe	34	mtr
356.4	19.6.4	300 mm dia RCC pipe	34	mtr
356.5	19.6.5	450 mm dia RCC pipe	34	mtr
356.6	19.6.6	500 mm dia RCC pipe	34	mtr
356.7	19.6.7	600 mm dia RCC pipe	34	mtr
356.8	19.6.8	700 mm dia RCC pipe	34	mtr
356.9	19.6.9	800 mm dia RCC pipe	34	mtr
356.10	19.6.10	900 mm dia RCC pipe	34	mtr
356.11	19.6.11	1000 mm dia RCC pipe	34	mtr
356.12	19.6.12	1100 mm dia RCC pipe	34	mtr
356.13	19.6.13	1200 mm dia RCC pipe	34	mtr
357	19.7	Constructing brick masonry manhole in cement mortar 1:4(1 cement 4 coarse sand) RCC top slab with 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 mix (1 cement 4 coarse sand 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3(1 cement 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4(1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design		
357.1	19.7.1.1	With FPS bricks with class designation 75	34	each
358	19.9	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4(1 cement 4 coarse sand) in side cement plaster 12mm thick with cement mortar 1:3(1 cement 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6(1 cement 3 coarse sand 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4(1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design		
358.1	19.9.1	0.91m deep with SFRC cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter conforming to IS 12592 total weight of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4(1 cement 2 coarse sand 4 graded stones aggregate 20mm nominal size) including centering shuttering all complete at the external surface shall be paid for separately)		
358.2	19.9.1.1	With FPS bricks with class designation 75	34	each
358.3	19.9.1.2	with sewer bricks conforming to IS 4885	34	each
359	19.1	Extra depth for circular type manhole 0.91m internal dia(at bottom) with beyond 0.91m to 1.67m		
359.1	19.10.1	with F.P.S bricks class designation 75	34	mtr
359.2	19.10.2	with sewer bricks conforming to IS 4885	34	mtr
360	19.15	Providing NS foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6(1cement 3 coarse sand 6 graded stone aggregate 20mm nominal size) as per standards design		
360.1	19.15.1	with 20x20mm square bar	34	each
360.2	19.15.2	with 20mm dia meter round bar	34	each
361	19.19	Providing and fixing in position pre cast RCC manholescover and frame of required shape and approved quality		

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361.1	19.19.1	LD-2.5		
361.2	19.19.1.1	Rectangular shape 600x450mm internal diamensions	34	each
361.3	19.19.1.2	square shape 450mm internal diamensions	34	each
361.4	19.19.1.3	Circular shape 450mm internal diameter	34	each
361.5	19.19.2	MD-10		
361.6	19.19.2.1	square shape 450mm internal diamensions	34	each
361.7	19.19.2.2	Circular shape500mm internal diameter	34	each
361.8	19.19.3	HD-20		
361.9	19.19.3.1	Circular shape560mm internal diameter	34	each
362	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls floors with cement concrete 1:2:4 mix(1 cement 2 coarse sand 4 grades stone aggregate 20mm nominal size) cement plastered on both sides with cement mortar 1:3(1 cement 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete		
362.1	19.21.1	For pipes 100 to 230mm diameter	34	each
363	19.24	Dismantling of manhole including RCC top slab CI cover with frame including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50m lead		
363.1	19.24.1	Rectangular manhole 90x80cm and 45cm deep	34	each
363.2	19.24.2	Rectangular manhole 120x90cm and 90cm deep	34	each
363.3	19.24.3	Rectangular arch type manhole 140x90cm and 2.45m deep	34	each
363.4	19.24.4	Circular manhole 122cm diameter and 1.68m deep	34	each
364	19.26	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately)		
364.1	19.26.1	Rectangular manhole 90x80cm with rectangular cover 600x450mm of grade LD-2.5	34	each
364.2	19.26.2	Rectangular manhole 120x90cm with circular cover 500mm dia of grade MD-10	34	each
364.3	19.26.3	Rectangular manhole 120x90cm with circular cover 560mm dia of grade HD-20	34	each
364.4	19.26.4	Circular manhole 140cm dia with circular cover 600mm dia of grade EHD-35	34	each
365	19.30	Constructing brick masnory chamber for underground CI inspection chamber and bends with 75 class designation bricks in cement mortar 1:4(1 cement 4 coarse sand) CI cover with frame (light duty) 455x610mm internal diamensions total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) RCC top slab with 1:2:4 mix(1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) foundation concrete 1:5:10 (1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3(1cement 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc, complete as per standard design		
365.1	19.30.1	Inside dimensions 455x610mm and 45 cm deep for single pipe line		
365.2	19.30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	34	each
365.3	19.30.2	inside dimensions 500x700mm and 45cm deep for pipe line with one or two inlets		
365.4	19.30.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	34	each
365.5	19.30.3	inside dimensions 600x850mm and 45cm deep for pipe line with three or more inlets		
365.6	19.30.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	34	each
366	19.31	Extra for depth beyond 45 cm of brick masonry chamber		
366.1	19.31.1	For 455x610mm size		
366.2	19.31.1.1	with FPS bricks	34	mtr
366.3	19.31.2	For 500x700 mm size		
366.4	19.31.2.1	with FPS bricks	34	mtr

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366.5	19.31.3	For 600x 850 mm size		
366.6	19.31.3.1	with FPS bricks	34	mtr
367	BHEL Approved Rate	Cleaning of Inspection Chamber / Manholes of different sizes, and diameters, silt, sand, root from Chambers and waste materials to be removed and disposal upto 10 Meters etc complete as directed by the Engineer-in-charge.		
367.1	BHEL Approved Rate	For Inspection Chambers	34	Nos
367.2	BHEL Approved Rate	For main Man holes upto any depth existing in township.	22	Nos
368	BHEL Approved Rate	Cleaning of external Sewerlines SWG/RCC Line of different Diameters.With bamboos / roding by using rope with knots, the line should be clear with all organic materials etc including roots, removal of silt, obstructed sludge with required tools, removal of silt sand, material came from the manholes, disposal upto lift upon a distance of 2 KM or suitable place as directed by the Engineer-in-charge.		
368.1	BHEL Approved Rate	4" Dia SWG Line Cleaning	34	One Rmt
368.2	BHEL Approved Rate	6" Dia SWG Line Cleaning	34	One Rmt
368.3	BHEL Approved Rate	9" Dia SWG Line Cleaning	34	One Rmt
368.4	BHEL Approved Rate	12" Dia SWG Line Cleaning	34	One Rmt
369	BHEL Approved Rate	Supply & placing in position of SFRC covers of following sizes & standard thickness of 50mm /75mm .		
369.1	BHEL Approved Rate	600x600	34	Each
369.2	BHEL Approved Rate	600x900	34	Each
369.3	BHEL Approved Rate	600x1200	34	Each
369.4	BHEL Approved Rate	450x900	34	Each
370	BHEL Approved Rate	Repairs to existng manholes / IC chambers by removing / replaster in CM 1:4, 20mm thick	34	Each
371	4.10	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mmnominal size).	50	sqm
371	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	50	Per 50 kg cement
374	CPWD 14.4.1/P.215	Making the opening in brick masonry for door / window/clerestory window including diamantling in floor or walls by cutting masonry and making ood the damages to walls, flooring and jambs complete to match existing surgace i/c disposal of mulba / rubbish to the nearest municipal dumping ground etc., complete all the directed by Engineer-in-charge. For door/ window/ clerestory window	10	sqm
ROAD WORKS				
375	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonnes capacity after excavating earth to an average of 22.5cm depth dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surface earth lead upto 50mtr	34	sqm
376	16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density)	34	cum
377	16.3	Supplying and stacking at site		
377.1	16.3.1	90mm to 45mm size stone aggregate	34	cum
377.2	16.3.2	63mm to 45mm size stone aggregate	34	cum
377.3	16.3.3	53mm to 22.4mm size stone aggregate	34	cum
377.4	16.3.9	Good earth	34	cum
377.5	16.3.10	moorum	34	cum
378	16.4	Laying spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness hand picking rolling with 3 wheeled road/ vibratory roller 8-10 tonnes in stages to proper grade and camber applying and brooming	400	cum

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		requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compacting to the required density.		
379	16.9	Scarifying metallised (water bound) road surface including disposal of rubbish lead upto 50m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonnes capacity	34	sqm
380	16.11	Dry stone pitching 22.5cm thick including supply of stones and preparing surface completes	34	sqm
381	16.13	Cutting road and making good the same including supply of extra quantities of material ie aggregate moorum screening red bajri and labour required		
381.1	16.13.2	water bound macadam	34	cum
382	16.15	Supplying at site		
382.1	16.15.1	RCC standard post/ struts/ rails/ pales of mix 1:1.5:3(1cement 1.5coarse sand 3 graded stone aggregate 12.5mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of engineer in charge including fixing (cost of earth works in excavation, concrete works in foundation to be paid separately)	10	cum
383	16.17	Fencing with RCC post placed at required distance embedded in cement concrete blocks every 15th post last but one end post and coner post shall be stutted on both sides and end post one side only, provided with horizontal lines and two diagonal of barbed wire 9.38kg per 100mtr (min) between the two posts fitted and fixed with GI staples on wooden plugs or GI binding wire tied to 6mm bar nibs fixed while casting the post (cost of RCC posts struts earth work and concrete to be paid for separateley) payment to be made per metre cost of total lenght of barbed wire used		
383.1	16.17.1	With GI barbed wire	34	mtr
384	16.2	welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x60cm of mix 1:5:10(1cement 5 fine sand 10 graded stone aggregate 40mm nominal size) every 15th post last but one end post and coner post shall be strutted on both sides and and end post on one side only and struts embedded in cement concrete blocks 70x45x50cm of the same mix provided with welded steel wire fabric fixed between the posts fitted and fixing with GI staples on wooden plugs or tied between the posts fitted and fixed with GI binding wire (cost of posts welded steel wire fabric painting earth work in excavation and concrete to be paid for separately)	34	sqm
385	16.21	Engraving letters in hard Granite stone	34	per letter per cm height
386	16.24	Providing and fixing precast reinforced cement concrete 1:1.5:3(1cement 1.5 coarse sand 3 graded stone aggregate 20mm nominal size) Kilometres stones as per standard design including finishing smooth in 1:3 cement mortar (1cement fine sand) but excluding the cost of earth work concrete in foundation painting and lettering etc. which shall be paid for separately		
386.1	16.24.2	50x152.5x25cm size	34	each
387	16.42	Cement concrete 1:2:4(1cement 2 coarse sand 4 grade stone aggregate 40mm nominal size) in pavements laid to required slope and camber in panels as required including consolidation finishing and tamping complete	34	cum
388	16.43	Providing and laying desing mix cement concrete in roads taxi tracks and runways having a minimum works test beam flexural strength of 30 kg per cm ² at 28days using not less than 430kg. Of cement per cum of finished concrete coarse sand and grade stone aggregate of 40mm nominal size in appropriate proportions as per specified design criteeria approved by engineer in charge mechanically vibrated using needle and surface vibrators including steel form work with sturdy MS channel sections including curing and approved joint filler and filling construction joints and dummy joints with approved joint filler and primer including rounding of the edges and filling the grooves10x25mm deep at top for construction joints and 10mmx50mm deep at top for dummy joints with joint sealing compound (conforming to grade B of IS 1834) including making necessary arrangements for expansion joints etc. all complete with readymix concrete.	34	cum
389	16.44	Extra for providing and mixing hard crete of approved quality as per manufactures specification in cement concrete	34	ltr
390	16.47	Painting runway/ taxi track/ apron marking with adequate no of coats to give uniform finish with road marking paint of superior make as approved by the engineer in charge i/c cleaning the surface of all dirt scales oil grease and other foreign material etc., and lining out complete		
390.1	16.47.1	New work (two or more coats)	34	sqm

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390.2	16.47.2	Old work(one or more coats)	34	sqm
391	16.48	Painting road surface marking with adequate no of coats to give uniform finish with ready mixed road marking paint conforming to IS 164 on bitumious surface in white / yellow shade including cleaning the surface of all dirt scales oil grease and foreign material etc. complete		
391.1	16.48.1	New work (two or more coats)	34	sqm
391.2	16.48.2	Old work(one or more coats)	34	sqm
392	16.49	making bell mouth opening/ entrance of size 100x50x50cm for drainage pipe under footpath including providing cement concrete 1:3:6(1cement 3 coarse sand 6 grade stone aggregate 20mm nominal size) for shape of bell mouth including plastering providing and fixing precast RCC/SFRC slab including plastering with cement mortar 1:3(1 cement 3 fine sand) of 6 mm thickness on exposed surface of the slab and bell mouth including centring shuttering and neat cement punnig inside the bell mouth etc. all complete	34	each
393	16.5	Providing and fixing glow studs of size 100x20mm made of heavy duty body shall be moulded ASA (acrylic styrene acryloretrite) or HIP (high impact polystyrene) or ABC having electronically welded micro prismatic lens with abrasion resistant coating as approved by engineer in charge. the cats eye shall support a load of 13635kg tested in accordance with ASTM D 4280. the slope of retro- reflective surface shall be 35 +/-5 degress to base. the reflective panels on both sides with at least 12cm of reflective area up each side. the luminance intensity should be as per the specification and shall be tested as described in ASTM I:809 as recommended in BS 873 part 4 :1973. the studs shall be fixed to the road surface using the adhesive conforming to IS as per procedure recommended by the manufacturer complete and as per direction of engineer in charge.	34	each
394	16.53	Providing and fixing concertina coil fencing with required dia 610mm(having 15nos round per 6metre length) up to 3m height of wall with existing angle iron Y shape placed 2.4m or 3.00m apart and with 9 horizontal RBT stud tied with GI staples and GI clips to retain horizontal including necessary bolts or GI barbed wire tied to angle iron all complete as per direction of engineer in charge with reinforced barbed tape(RBT) / spring core (2.5mm thick) wire of high tensile strength of 165kg/ sqmm with tape (0.52mm thick) and weight 43.478gm / metre (cost of MS angle CC blocks shall be paid separately)	34	mtr
395	16.59	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminium sheet, face to be fully covered with high intensityencapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colourcombination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesivebacking which shall be activated by applying heat and pressureconforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S.message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing , specification and direction of Engineer--in-charge		
395.1	16.59.1	Mandatory / Regulatory sign boards of 900mm dia metre with part as length of 3750mm	34	sqm
395.2	16.59.2	cautionary / warning sign boards of equilateral triangular shape having each side of 900mm with support length of 3650mm	34	sqm
396	16.6	Manufacturing supplying and fixing retro reflective overhead signage boards made up of 2mm thick aluminium sheet face to be fully covered with high intensity and encapsulated lens type heat activated retroreflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys,		

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		rivets or bolts & nuts @ 300mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures including the cost of painting with two more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge. (Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment).		
396.1	16.60.1	Overhead informatory road signage	34	sqm
397	16.61	Providing Retro-reflective regulatory sign board of size 900mm dia meter made out of 2mm thick aluminium sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge . Letter, symbols, borders etc. will be as per IRC - 67 with required colour scheme on the boards and with the high intensity grade A. The aluminium sheet to be riveted to M.S. frame of angle iron of size 40x40x4mm The boards will be fixed to 1 No. 50x50mm square post made of M.S. angle 50x50x4mm, 4m long welded to the frame with adequate anti-theft arrangement . Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminium sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.	34	sqm
398	16.62	Providing and applying 2.5mm thick road marking strips (retro reflective) of specified shade / colour using hot thermoplastic material by fully / semi automatic thermoplastic paint applicator machine fitted with profile shoe glass beads dispenser propane tank heater and profile shoe heater driven by experienced operator on road surface including cost of material labour T&P cleaning the road surface of all dirt seals oil grease and foreign material etc. complete as per direction of engineer in charge and accordance with applicable specification	34	sqm
399	16.65	providing and fixing post delineators (made of ABS body fitted with 2 nos 100mm dia) reflective and reflectors are mounted on MS pipe of 65mm dia dully power coated anti rust and theft steel not to be installed as per direction of engineer in charge	34	each
400	16.68	providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design / shape laid in required colour and pattern over and including 50mm thick compacted as per the direction of engineer in charge	34	sqm
401	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line level and curvature jointed with cement mortar 1:3(1 cement 3 coarse sand) including making joints with or without grooves (thickness of joints expect at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of engineer in charge (length of finished kerb edging shall be measured for payment) precast CC kerb stone shall be approved by engineer in charge	34	cum
402	16.72	Supplying and stacking of hard stone (for stone pitching) 22.5cm thick at site	34	cum
403	16.73	Dry stone pitching 22.5mm thick laid in courses and required profile with hammer dressed stones having no side less than 15cm with minimum depth of 20cm including preparing the bedding surfaces ect, all complete (payment for stone to be made separately)	34	sqm
404	16.74	75mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with		
404.1	16.74.1	moorum	34	sqm
404.2	16.74.2	stone aggregate 20mm nominal size	34	sqm
404.3	16.74.3	Stone aggregate 40mm nominal size	34	sqm
405	16.75	Providing and laying CC pavement of mix M25 with ready mixed concrete from batching plant . The ready mixed concrete shall be laid and finished with screed board vibrator vacuum dewatering process and finally finished by floating brooming with wire brush etc. complete as per specification and directions of engineer in charge (the panel shuttering work shall be paid for separately)	34	cum
406	16.76	Deduct for using of M20 grade concrete instead of M25 grade concrete in CC pavement	34	cum
407	16.77	Scarifying the existing bitumen road surface to a depth of 50mm and disposal of scarified material within all lifts and lead upto	34	sqm

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		1000mtr (by mechanical means)		
408	16.57	Providing and laying Bituminous Macadam using crushed stone aggregates of specified grading premixed with bituminous binder and filler,transporting the hot mix to work site by tippers,laying with paver finisher equiped with lectronic sensor to the required grade,level and alignment and rolling with smooth wheeled,vibratory and tandem rollers to achieve the desired compaction and density, as per specifications,complete and as per directions of Engineer in charge.		
408.1	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30(60/70 grade)@ 5.5% (Percentage by weight of total mix) and lime filler @ 3% (percentage by weight of aggregate) prepared in batch type Hot mix plant of 100-120 TPH capacity.etc. complete all as directed by Engineer-in-charge.	50	cum
409.1	16.33.1	2.5 cm premix carpet surfacing (hot mix plant) with 2.25 cum and 1.12 cum of granite stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm. and 52 kgs and 56 kgs of Hot Bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc. complete. (tack coat to be paid for separately),with paving asphalt grade VG-10(80/100 grade) heated and then mixed with solvent at the rate of 70 gms per kg of asphalt all as directed by Engineer-in-charge.	100	sqm
410.1	16.31.1.1	Providing and applying tack coat using bitumen emulsion (Rapid setting) conforming with IS 8887-1995, on W.B.M./W.M.M. surface @ 0.40 kg/sqm by using emulsion pressure distributor including preparing the road surface and cleaning with mechanical broom etc., complete all as directed by Engineer-in-charge.	5000	sqm
410.2	16.31.1.2	Providing and applying tack coat using bitumen emulsion (Rapid setting) conforming with IS 8887-1995, on bituminous surface @ 0.25 kg/sqm by using emulsion pressure distributor including preparing the road surface and cleaning with mechanical broom etc., complete all as directed by Engineer-in-charge.	34	sqm
411.1	16.30.1	Providing and applying tack coat using hot straight run bitumen of grade VG- 10, including heating the bitumen , spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications. On W.B.M surface @0.75 kg/Sqm all as directed by Engineer-in-charge.	34	sqm
411.1	16.30.2	Providing and applying tack coat using hot straight run bitumen of grade VG- 10(80/100 grade), including heating the bitumen , spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications. On bituminous surface @0.50 kg/Sqm all as directed by Engineer-in-charge.	34	sqm
412	16.79	Providing,laying,spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam(WMM) specification including premixing the material with water at OMC in mechanical mix plant,carriage of mixed material by tipper to site,for all leads & lifts,laying in uniform layers with mechanical paver finisher in sub-base/base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density,complete as per specifications and directions of Engineer in charge.	34	cum
413	16.82	Taking out existing kerb stones of all types from footpath/central verge ,including removal of mortar etc,disposal of unserviceable material to the dumping ground ,for which payment shall be made separately and stacking of serviceable material within 50 metre lead and as per direction of Engineer in charge.	10	rmt
414	16.85	laying at or near ground level old kerb stones of all types in position to the required line,level and curvature,jointing with cement mortar 1:3 (1 cement : 3 coarse aggeregate) including making joints with or without grooves (thickness of joints,except at sharp curve,shall not be more than 5 mm) including making drainage opening eherever required etc complete as per direction of Engineer in charge.(Length of finished kerb edging shall be measured for payment).(Old kerb stone shall be supplied by the department free of cost)	10	rmt
415	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line level and curvature jointed with cement mortar 1:3(1 cement 3 coarse sand) including making joints with or without grooves (thickness of joints expect at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of engineer incharge(lenght of finished kerb edging shall be measured for payment) precast CC kerb stone shall be approved by engineer in charge	10	CUM
416	BHEL	Providing and laying premix bituminous macadam base course	10	cm

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	Approved Rate	with stone aggregate of quality size and grading as specified in CPWD specification and straight run bitumen of grade 80/100 @ 4% by weight of total mix including hot mixing of stone aggregate and bitumen in hot mix plant, transporting mixed material and laying mixed material with paver finisher to the required level and grade, rolling with road roller of 8 to 10 tonne capacity to achieve the required compaction and density of any thickness etc complete all as directed by Engineer-in-charge.		
417	BHEL Approved Rate	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade 80/100 and blinding surface with 0.90 cm of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface including rolling and finishing with power road roller etc complete, all as directed by Engineer-in-charge.	10	sqm
418	BHEL Approved Rate	Supply and fixing of kerb stones of size 1.00 M x 0.15 m x 0.30 m twice dressed exposed faces and pointing with CM 1:3 including necessary excavation and refilling the gaps etc., complete all as directed by Engineer-in-charge.	10	rmt
HORTICULTURE WORKS				
419	23.1	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly leveling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	10	cum
420	23.2	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment)	34	cum
421	23.3	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 8% for payment)	34	cum
422	23.4	Supplying and stacking at site dump manure from approved source including carriage up to 1 km (earth measured in stacks will be reduced by 8% for payment)		
422.1	23.4.1	Screened through sieves of IS designation 20mm	34	cum
422.2	23.4.2	Screened through sieves of IS designation 16mm	34	cum
422.3	23.4.3	Screened through sieves of IS designation 4.75mm	34	cum
424	23.5	Rough dressing the trenched ground including breaking clods	34	100sqm
425	23.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooring with water including disposal of uprooted vegetation	34	100sqm
426	23.7	Fine dressing the ground	34	100sqm
427	23.8	Spreading of sludge, dump manure or / and good earth in required thickness (cost of sludge, dump manure or / and good earth to be paid separately)	34	cum
428	23.9	Mixing earth and sludge or manure in proportion specified or directed.	34	cum
429	23.10	Grassing with doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately)		
429.1	23.10.1	In rows 15cm apart in either direction	34	100sqm
429.2	23.10.2	in rows 7.5cm apart in either direction	34	100sqm
430	23.11	Renovating lawns including weeding, chelting the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed including supplying good earth if needed but excluding the cost of sludge or manure (the good earth shall be paid for separately)	34	100sqm
431	23.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm, removing all weeds and other growth with roots by forking, repeatedly breaking clods, rough dressing, flooring with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass including disposal of all rubbish with all leads and lifts.	34	100sqm
432	23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% :1 part of stacked volume of manure after reduction by 8%) flooring		

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		with water dressing including removal of rubbish and surplus earth., if any with all leads and lifts (cost of manure sludge or extra good earth if needed to be paid for separately)		
432.1	23.14.1	Holes 1.2 m dia and 1.2m deep	34	each
432.2	23.14.2	Holes 60cm dia and 60cm deep	34	each
433	23.16	Providing and fixing MS flat iron tree guard 60cm dia. And 2 m height above ground level formed of 4 nos. 25x6mm and 8 nos. 25x3mm vertical MS flats rivetted to 3 nos. 25x6mm MS flat iron rings in two halves bolted together with 8mm dia. And 30mm long bolts including painting two coats with paint of approved brand and manufacture over a coat of priming complete in all respects	34	each
434	23.21	Excavation in dumped stones or malba including stacking of serviceable and material separately and disposal of unseviceable material lead up to 50m and lift up to 1.5m disposed material to be neatly dressed.	34	cum
435	23.22	Excavation in bajri path including stacking of serviceable and unseviceable material lead up to 50m and lift up to 1.5 m disposed material to be neatly dressed	34	cum
436	23.23	Excavation in water bound macadam road including stacking the serviceable material lead up to 50m and lift up to 1.5m disposed material to be neatly dressed	34	cum
437	23.24	Flooding the ground with water including making kiaries and dismantling the same	34	100sqm
438	BHEL Approved Rate	Grass cutting including light jungle, collection of stones, disposing, the cut grass and light jungle to places as directed by the Engineer-in-charge. The rate quoted shall include the cost of cutting, cleaning, loading, conveyance within a lead of 2 KM to places as directed and spreading etc complete.	34	SQM
439	BHEL Approved Rate	Cutting the hedges around the quarters and public buildings with big scissors, knives etc including clearing and disposing the cut waste within a lead of 2 km all as directed by the Engineer-in-charge. The waste materials shall be cleared on the same day and the rate shall include all tools, transport etc.	34	One Cum
440	BHEL Approved Rate	Uprooting and clearing parthinium and other weeds with big scissors, knives etc including clearing and disposing the cut waste within a lead of 2 km all as directed by the Engineer-in-charge. The waste materials shall be cleared on the same day and the rate shall include all tools, transport etc.	34	One Sqm
442	BHEL Approved Rate	Arresting the growth of trees along the walls of the buildings in Township by applying gylcil with ammonia od required quantity till tree is dried and removing the dried tree along with roots and dispoting off, upto 2 KM lead etc complete as directed by Engineering - in - charge.	34	each
443	BHEL Approved Rate	Cutting of tree branches over buildings at more than 6 meters height and removing other kind of branches from the cut branch and stocking as directed by the Engineer-in-charge within a lead of 3 kms (separate payment will be made for transporting the tree branches from site to BHEL Nursery stockyard).		
443.1	BHEL Approved Rate	100 to 200 mm girth with its branches.	34	Each
443.2	BHEL Approved Rate	Above 200 mm girth with its branches.	34	Each
PROVIDING MACHINARY				
444	BHEL Approved Rate	Supply of JCB	55	Per Hour
445	BHEL Approved Rate	Supply of Tractor with ripper / Trolley	25	Per Day
446	BHEL Approved Rate	Supply of Tractor with hydraulic Lift with 4 USW	24	Per Day
447	BHEL Approved Rate	Supply of water Tanker	25	Per Day
448	BHEL Approved Rate	Supply of Kambi Series/ Machine for de-silting or De-choking or Removal of silt	20	Per Day
449	BHEL Approved Rate	Supply of tractor with levelling blade & Plough equipment	25	Per Day
450	BHEL Approved Rate	Supply of road roller on hire basis for rolling the grounds / play fields / filled up soil / rolling by the side of roads etc complete all as directed by Engineer-in-charge hire charges include cost of services operating staff and supply of lubricating oil etc complete all as directed by Engineer-in-charge.	10	perday 8 hrs
451	BHEL Approved Rate	Providing a Mobile crane for lifting of trunk tree mains at road sides, electrical poles, placing of transformers whenever needed as directed by Engineer-in-charge, including cost of services of operating staff and supply of lubricant oil etc complete all as directed by Engineer-	10	perday

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		in-charge.		
MISCELLANEOUS WORKS				
452	BHEL Approved Rate	Cleaning and removing all un wanted things from the roof terrace of various buildings at an elevated level of 12 to 20 metre from FFL. Rate includes labour, tools, wire brush, brooms, baskets etc., sweeping and clearing off all dirt, silt, dust, leaves and other foreign matters etc, without damaging the terrace treatment and thereby collecting all the wastes in bags / casket, lowering to ground floor without affecting the working environment and dumping the same in the nearby dust bins / earmarked areas / low lying areas etc complete. Sweeping has to be done only as and when necessary. Payment will be made only for the areas where actually the job was carried out.	50	One Sqm
453	BHEL Approved Rate	Cleaning of water tanks of various sizes using minimum 150 gms cleaching powder for each tank of any number of parts including cost of bleaching powder. (The agency shall make his own arrangements for tools required and shall repair and replace the ball cocks damaged while cleaning).	44	Each Tank
454	BHEL Approved Rate	Labour charges for Fixing barbed wire fencing to the RCC poles / MS angles horizontally and diagonally with GI binding wire including cost of fixing materials. The payment shall be mad for running length of each row of fencing and including tightening the loose barbed wire wherever necessary. The barbed wire shall be supplied free of cost at BHEL stores.	40	One Rmt
455	BHEL Approved Rate	Erection RCC poles/M.S angles posts in position by coveying the same to the places as directed.	44	Each
456	BHEL Approved Rate	Carrying the earth / gravel from stacks to the areas of filling, spreading in layers of 150 mm thick watering, ramming and consolidation with power roller of required capacity so as to bring the surface to proper line, level camber and grade etc complete as directed by Engineer-in-charge	40	One Cum
457	BHEL Approved Rate	Labour charges for fixing of chain link mesh to the existng poles with a required tools, material etc complete all as directed by Engineer-in-charge.	44	Sqm
458	BHEL Approved Rate	Removing of silt and debris from the open drains and removing and replacing of approach paths wherever required to remove the silt underneath the approach paths, including loading, unloading and conveyance to a distance of 2 kms and spreading at the places as directed by the Engineer-in-charge.	40	One Rmt
459	BHEL Approved Rate	Removal of silt, debris and vegetation growth from the nallahs including loading, unloading and conveyance to a distance of 2 kms and spreading at the places as directed by the Engineer-in-charge.		
459.1	BHEL Approved Rate	Bed width upto 5M	38	One Rmt
459.2	BHEL Approved Rate	Bed width upto 10M	34	One Rmt
460	BHEL Approved Rate	Removing silt and debris from the R.C.C hume pipes of all dia. Provided at the approches to residential and non-residential buildings, etc.,	37	One Rmt
461	BHEL Approved Rate	Supply of SFRC Medium Duty Approach Slabs for open drains including transportation and placing at one location etc complete all as directed by Engineer-in-charge.		
461.1	BHEL Approved Rate	Size 1000 x 600 x 60 mm	38	No
461.2	BHEL Approved Rate	Size 1200 x 600 x 60 mm	36	No
462	BHEL Approved Rate	Providing and fixing 12 mm thick frameless toughened glass partitions of approved brand and manufacture including providing and fixing arrangement and making necessary holes for fixing required partition fittings including cost of 3M frosted film with specified design over the glass, and all other required fittings completed as per direction of Engineer-in-charge.	27	Sqm
463	BHEL Approved Rate	Providing and fixing 12 mm thick frameless tough hand glass door shutter of approved brand and manufacture including providing and fixing top and bottom pivot, handle, SS door lock, stopper and floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings and including cost of 3M frosted film over the glass, and all other required fittings completed as per direction of Engineer-in-charge	20	Sqm
464	BHEL Approved Rate	Supply & fixing precast RCC fencing poles of size of size 150mm square at bottom of the pole & 100mm square at top of the pole and length of the pole should be minimum 1800 length. (Specification should be checked for standard size) as directed by Engineer In charges.	10	each
Conveyance				

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465	1.1.1	Conveyance by Manual or Mechanical means of Lime, Murrum, building Rubbish including loading un-loading with lift of 50 m upto lead mentoned below all complete all as directed by Engineer in charge		
465.1	1.1.1.1	1 Km	40	Cum
465.2	1.1.1.2	2 Km	40	Cum
465.3	1.1.1.3	3 Km	40	Cum
466	1.1.2	Conveyance by Manual or Mechanical means of Earth including loading un-loading with lift of 50 m upto lead mentoned below all complete all as directed by Engineer in charge		
466.1	1.1.2.1	1 Km	40	Cum
466.2	1.1.2.1	2 Km	40	Cum
466.3	1.1.2.1	3 Km	40	Cum
467	1.1.4	Conveyance by Manual or Mechanical means of Excavated rock including loading un-loading with lift of 50 m upto lead mentoned below all complete all as directed by Engineer in charge		
467.1	1.1.4.1	1 Km	40	Cum
467.2	1.1.4.2	2 Km	40	Cum
467.3	1.1.4.3	3 Km	40	Cum
SUPPLY OF BUILDING MATERIALS				
468	16.3.3	Supply and stacking of 40 mm machine crushed granite metal including all incidental charges etc complete as directed by Engineer-in-charge.	40	One Cum
469	16.3.3	Supply of 20 mm guage hard granite stone metal including cost and conveyance to site and stacking as directed by the Engineer-in-charge.	15	One Cum
470	16.3.3	Supply of 12 mm guage hard granite stone metal including cost and conveyance and stacking as directed etc complete.	15	One Cum
471	D.S.R-RA	Supply of ground moulded number bricks of best quality including cost and conveyance to site and stacking neatly as directed by the Engineer-in-charge.	10000	Nos
472	D.S.R-RA	Supply of good quality course River Sand Bhodan / Karimnagar / Kurnool / Sirisilla quality including cost and conveyance to site and stacking neatly as directed by the Engineer-in-charge.	100	One Cum
473	16.3.7	Supply and spreading quarry stone dust on walking track, stadium etc, complete as directed by Engineer-in-charge.	15	One Cum
Lettering of Boards and Banners				
474	BHEL Approved Rate	Applying one coat of synthetic enamel paint of Apcolite brand and an approved shade to the speed breakers and road sign boards including cost of all materials, labour etc complete etc complete all as directed by Engineer-in-charge.	10.00	Sqm
475	BHEL Approved Rate	Painting the township layout on supplied boards approximate Size 3.00x1.50 M, as per the layout with different shades indicating the functional and residential buildings separately and in different colours for various types, bordering, index preparations, key plan etc, complete as per the instructions (The paints shall be of synthetic enamel for G.P of approved make). The rate quoted shall include rubbing the existing painting surface and cost of all the materials like brushes and paintsetc complete all as directed by Engineer-in-charge.	10.00	Sqm
476	BHEL Approved Rate	Preparing the supplied boards of different sizes to receive the painting as per the drawing and painting the letters of different sizes in different shapes with synthetic enamel paint of approved make in different shades as per the instructions. The quoted rate shall include rubbing of the existing painted surface to receive the new painting and cost of all materials like brushes, paints etc etc directed by Engineering - in charge.	103.00	Sqm
477	BHEL Approved Rate	Providing radium sticker letters and arrow marks of approved colour and design and size. The base board will be supplied by the department and as directed by the Engineer-in-charge.	10.00	Sqm
478	BHEL Approved Rate	Supply and fixing of multi-colour digital printing on paper with lamination on 10 mm M.D.F.Board Supporting with Iron Frame including all incidental charges etc complete as directed by Engineer-in-charge etc directed by Engineering - in charge.	2.00	Sqm
479	BHEL Approved Rate	Supply and fixing of self-glow radium sticker on the radium paper including cutting charges, fixing charges etc complete as directed by Engineer-in-charge.	10.00	Sqm
480	13.71	Re-lettering with black Japan paint of approved brand and manufacture for numbering to shops with black ground paint and	10.00	per letter per centimeter

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		also including cost of all material etc complete all as directed by Engineer-in-charge.		height
481	BHEL Approved Rate	Supply and fixing of radium plain sheet wherever required etc complete all as directed by Engineer-in-charge.	10.00	Sqm
482	16.47.2	Labour charges for 2 coats painting run way / taxi track / apron marking with adequate number of coats to give uniform finish with road marking supplied paint including cleaning the surface of all dirt, scales, oil, grease and other foreign material etc and lining out etc complete all as directed by Engineer-in-charge.	10.00	Sqm
483	16.78	Construction of granular sub base by providing close graded material conforming to specifications, mixing in a mechanical plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density complete as per specifications, site conditions and directions of Engineer in charge.		
483.1	16.78.2	With material conforming to Ggrade -II (size range 53 mm to .075 mm) having CBR value -25	2.00	Cum
484	BHEL Approved Rate	Supply and fixing of satın cloth flags of 1 mtr x 3 mtrs in size and providing BHEL monogram on the flag including stitching charges, cost of all materials etc complete all as directed by Engineer-in-charge.	10.00	Each

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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

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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:

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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	Service Tax 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: ex. 2012-13, 2013-14, 2014-15 & 2015-16	
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:

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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. The quantity may slightly vary depending on the requirement which will be informed in advance by BHEL.
- v. The payment will be as per actual quantity prepared, executed and accounted.
- vi. 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.
- vii. 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.

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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. In the event of two or more tenderers becoming L1, the said tenderers would be called for negotiation and will be instructed to submit fresh price bid offers. Further, in the event of two or more tenderers becoming L1, the selection of the tenderer for the purpose of awarding contract will be on the basis of LOTTERY to be held in presence of representatives of L1 tenderers.
- iv. 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.

6-C: PROFORMA FOR PRICE BID:-

Sl. No	Description	Qty	Unit	Unit Rate	Amount
1					
2					

Tender %	In words	Figures
Excess		
Less		
Estimate		

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.

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- (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 :

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SPECIAL TERMS AND CONDITIONS APPLICABLE TO RATE CONTRACT

1. The total value of maintenance works for which the rate contract will be called is for Rs.700.00 Lakhs (@ of Rs.350.00 Lakhs for each year).
2. The Rate contract will be used exclusively for carrying out maintenance works to the quarters and public buildings in Township.
3. Initially the EMD will be kept as Rs.2.00 Lakhs and once contract is finalised and splits are decided then SD shall be maintained for each agency as per their awarded value as per works policy.
4. The rate contract to be split into the following ratio:
When the contract is split into n parts, (where $n \leq 10$)
L(1) will be awarded $(x+12)\%$ of total contract,
L(2), L(3) & L(4) get $(x+5)\%$ of total contract,
L(5), L(6)..... L(n) shall get $x\%$ of total contract.
Where 'x' can be found out from the equation $\sum L(p) = 100$, Where $p=1$ to n .

Case 1-The maximum splitting of the rate contract is limited to 10. If the technically qualified agencies are more than or equals to 13, then highest three agencies will be eliminated and work will be split into 10 parts in the following ratio as mentioned in table1 provided all matches to L1 price.

Case 2-If the technically qualified agencies are between 10-12, then highest three agencies will be eliminated and work will be split between remaining agencies as per the following ratio as mentioned in table1 all matches to L1 price.

Case 3-If the technically qualified agencies are between 6-9, then highest two agencies will be eliminated and work will be split between remaining agencies as per the following ratio as mentioned in table 1 all matches to L1 price.

Case 4-If the technically qualified agencies are 5, then highest one agency will be eliminated and work will be split between remaining agencies as per the following ratio as mentioned in table 1 all matches to L1 price.

Accordingly the distribution of work will be as follows:

Table no.01

Case	No. Of Qualified Vendors	No. Of Splits	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
			% age of total Contract									
General	n+3	n	x+12	x+5	x+5	x+5	x	x	x	x	x	x
1	more than or equal to 13	10	19.3	12.3	12.3	12.3	7.3	7.3	7.3	7.3	7.3	7.3
2	12	9	20.11	13.11	13.11	13.11	8.11	8.11	8.11	8.11	8.11	
	11	8	21.13	14.13	14.13	14.13	9.13	9.13	9.13	9.13		
	10	7	22.43	15.43	15.43	15.43	10.43	10.43	10.43			
3	9	7	22.43	15.43	15.43	15.43	10.43	10.43	10.43			
	8	6	24.17	17.17	17.17	17.17	12.17	12.17				
	7	5	26.60	19.60	19.60	19.60	14.60					
4	6	4	30.25	23.25	23.25	23.25						
	5	4	30.25	23.25	23.25	23.25						

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Note: If the number of technically qualified vendors falls below 5, the tender will be short closed and fresh tenders will be called.

5. If any of the L(n) ($n \leq 10$) are not agreeing with the L1 price, the remaining percent of unawarded contract shall be distributed as per total number of splits as per the table 1.
 6. For getting better competition the experience clause (the estimated cost for qualification) for evaluating the contractors participating in Rate contract shall be based on L1 value assuming the contract were to be split into 10 pieces i.e., 19.3 % of Rs.350.00 Lakhs say, Rs.68.00 Lakhs.
 7. The experience having successfully completed similar works during last 7 years, shall be one of the following.
 - a. Three completed works costing not less than the amount equal to 25% of the estimated cost. (25 % of Rs.68.00 lakhs = Rs.17.00 Lakhs)
- OR**
- b. Two completed works costing not less than the amount equal to 35% of the estimated cost. (35 % of 68 = 24 Lakhs)
- OR**
- c. One completed work costing not less than the amount equal to 50% of the estimated cost (50 % of 68 = 34 Lakhs)
8. The rate contract shall be valid for 2 years with possible extension for 1 year as per the mutual consent of both parties on the same terms & conditions of the contract without any price escalation. However the agreement will be made initials for 1 year period only.
 9. The shortlisted parties shall be signing an MOU with Township Administration. The value of contract may be extended in a financial year based on the availability of additional budget and the additional budget shall be apportioned to each of the agencies in the same percentage as per the original split.
 10. BHEL does not guarantee to provide the total value of work mentioned in the rate contract.
 11. If the BHEL finds the work awarded to a contractor(s) is not executed as per the terms and conditions of the contract, either in quality, safety and time of response to complete a job, BHEL reserves the right to restrict the scope of such defaulting contractor(s) at any time during the contract and distribute that part of work to other contractors. The decision of Engineer-in-charge is final in this regards.
 12. Security deposit is applicable as per Company work policy on the final awarded values.

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SUGGESSTED MAKES OF MATERIALS FOR QUALITY MAINTANANCE IN TOWNSHIP CIVIL WORKS

SI. No.	Category	Material	Brand Name
1	Doors/ Windows	Flush Shutters (SL / DL), Ply Wood	Any standard make ISI Marked.
		PVC Doors (Single panel)	
2	Doors / Windows Fittings	Hinges	1. Milton (with ISI)
		CP Al-Drops	1. GP 2. Crown
		M.S. Tower Bolts	1. Crown (with ISI)
		CP Handles	Any standard make
		M.S. Screws	IS No.451.
		Table Top / Plain Glasses for Windows	1. Modiguard 2. Saint Gobin
3	Flooring	Ceramic Tiles for floor and walls (Glazed / Antiskid / Mat finish)	1. Kajaria 2. Bell 3. Orient 4. Johnson 5. Naveen 6. Regency
		Vitrified Tiles	1. Kajaria 2. Bell 3. Orient 4. Johnson 5. Naveen 6. Regency
		Adhesive for Tile fixing	1. Latecrete (with ISI) 2. Balendura (with ISI)
		Colour grout	1. Latecrete (with ISI) 2. Balendura (with ISI)
4	Paint	Exterior Paint	1. Asian (ACE) 2. Shalimar 3. Berger 4. Snowcem (trump) 5. Nerolac 6. Jenson & Nicholson
		Interior Paint	1. Asian 2. Shalimar 3. Berger 4. Snowcem (trump)
		Synthetic Enamel Paint	1. Asian 2. Shalimar 3. Berger 4. Jenson & Nicholson 5. Gravier& wel
5	Plumbing & Sanitary	Sanitary ware	1. Cera 2. Parryware 3. Hindware
		Plastic Water Tanks	1. Sintex (with ISI) 2. Plasto (with ISI)
		CI Bib cocks	1. Alto
		GI. Pipes	1. Tata 2. Jindal 3. Zenith
		PVC Pipes/ specials	1. Sudhakar 2. Prince

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		Plastic Seat Covers with CP brass hinges (for EWC)	Any standard make
		Brass, Stop Cocks / Bib Cocks	1. Luster 2. Plumber 3. Jainco
		Stainless Steel Sinks	1. Blue Star (with ISI) 2. Nirali (with ISI)
		CP items(bib cock, pillor cock, stop cocks)	1. Jainco 2. Seiko 3. Hindware 4. Parryware
		Valves	1. HB 2. Zoloto
		Mirrors	1. Modiguard 2. Saint gobin
6	Roofing Sheets	AC Sheets	1. Ramco 2. Visakha
		Galvalume sheets	1. Track dek
7	Water proofing	Chemical	1. Berger 2. Doctor Fixit 3. Zydex
		APP Membrane	1. Shalimar

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SCHEDULE "B"
ISSUE OF MATERIAL TO THE CONTRACTOR

The following materials will be issued to the contractor **free of cost**, unless otherwise specified in any item in the SCHEDULE 'A' by BHEL.

S NO	Particulars	Place of issue
1.	Cement Non-Returnable 50 Kg Bags.	At BHEL Central Stores, Ramachandrapuram or any other place specified within the premises.
2	Mild Steel Rounds & Torsteel all diameters.	
3	Structural steel	

- a) It will be the responsibility of the contractor to submit his demands for stores in writing atleast 7 days in advance of the actual requirements.
- b) Issue of all stores in subject to the extent of their availability at the place of issue noted above. The contractor should bring any of the materials shown above in case the BHEL desire so. The contractor shall not be entitled to any claim or compensation for non-supply of the materials, or for delay in the supply of stores under any circumstances.
- c) The materials will be issued only during the working hours. The contractors shall have to transport them to site of the work at his own cost as soon as these are issued to him.
- d) Where cost of stores issued is recoverable from the contractors, recoveries will be made from the running bills for the gross quantity issued and not for the net measured quantity of finished work.
- e) The contractor shall from time to time, render proper account of all materials issued to him by BHEL. If he fails to do so, no further issues of the materials will be made to him and he shall be held responsible for any delay in the execution of the work which may occur on this account.
- f) Where doors, windows, pipes, fittings, specials, glass, paints or other items are issued free of cost to the contractor, the contractor will have to make good at his own cost any loss or damage to part or whole of the items issued to him as above.
- g) All surplus materials in good condition whether issued free of cost or on cost recovery basis and which are not returned to the BHEL Stores and also quantities of materials consumed in excess of the actual requirements shall be charged for at punitive rates as per the rates mentioned in below table. The decision of the Engineer-in-Charge as to the extent to which the materials have been rendered surplus or have been consumed in excess of the actual requirements shall be final and binding on the contractor.

i) CEMENT

For the purpose of determining the actual requirement of cement, the theoretical consumption of cement as per CPWD specifications or as per Annexure D of General conditions of contract shall be considered by the Engineer-in-Charge.

ii) STEEL

Steel will be issued at lengths as stocked by the Bharat Heavy Electricals Limited. The surplus steel is represented by the difference between the quantity received and the quantity required and utilized on the work with an allowance of 5% towards scrap. The scrap will be the property of the contractor, who will be responsible for the removal from the site in time as directed by the Senior Engineer-in-Charge. The cut pieces and surplus returned shall not be shorter than three meters in length.

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SCHEDULE " C "**SERVICE VIZ., WATER & ELECTRICITY TO THE SITE OF CONTRACTOR****1. WATER**

Water required for the purpose of executing the contract shall be supplied by Bharat Heavy Electricals Limited and charged at **Rs.15.00 per 1,000 liters**. The supply will be made at a convenient point to be determined by the Engineer-in-Charge and Contractor has to make his own arrangements to distribute the water to places where required including cost of providing and fixing water meters. The charges for consumption of water will be as under, where water meters could not be provided by the contractor and prior permission for the same has to be obtained in writing from the Engineer-in-Charge.

i) On the total value of periodical maintenance Items of building	0.25%
ii) On the total value of other Civil works executed	0.50%
iii) On the total value of road works executed	0.75%

NOTE:

In respect of items (i) & (ii), only items where water is consumed on the work, will be considered for arriving at the total value.

In respect of items (iii) only the value of work on non-water consuming items such as picking metal, earth work, Asphaltting etc. will be excluded from the total value of road works.

2. ELECTRICITY

Electric current if required will be supplied at a convenient metered point to be determined by the Engineer-in-Charge. Any extension required to the different work sites will have to be arranged by the Contractor himself. Energy consumed will be metered and charged at **Rs.4.95** (Rupees four & Paise Ninety five only) per unit. Where meter could not be provided for structural steel works current charges will be recovered at **70 units per each tonne** of structural steel fabrication work done.

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Annexure-A

[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

Annexure-B**Proforma for Contract Agreement**

D. Agreement No

IR No :

Date :

Name of the work :

This agreement is made on(date in words) between M/s Bharat Heavy Electricals Limited, Ramachandrapuram, HYDERABAD-502 032 having its registered office at Siri Fort, NEW DELHI (hereinafter called "the company" of first part) and M/s(hereinafter called "the contractor" of the second part).

Whereas through its tender notice No. Dt. the company had called tenders for (Name of the work), details of which are annexed here to (hereinafter called "the said work") as per terms and conditions stipulated in the above tender notice.

The contractor has quoted his rates vide quotation dated In pursuance of the said contractor's quotation dt....., the company after accepting the quotation has awarded the work of..... as per schedule **enclosed** herewith containing full details of description of work, payment terms and rate per unit of work vide LOI/Work Order.....dated..... subject to the terms and conditions stipulated hereunder in addition to conditions stipulated in the said tender notice

Now it is hereby agreed as follows

1. That the agreement shall come into operation from (date) and will be in force upto (date).
2. As per the terms and conditions of the Tender Notice, the contractor has paid Security Deposit worth Rs...../- (RupeesOnly) in the form of :
3. **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. 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.
5. The Contractor shall provide two pairs of Uniform to each of his workmen along with stitching charges and catering cap as specified by BHEL.
6. 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.
7. The contractor shall provide Personal Protective Equipment including one pair per year safety shoe of standard specified by BHEL safety department and two pairs socks to all his workmen during the contract period.

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8. The contractor shall fully comply with the following enactments / guidelines:
- (a) Contract Labour(R & A) Act, 1971& applicable Rules thereof
 - (b) Minimum Wages Act 1948 (Wage Rates not less than that notified by State Labour Department / Central Labour Department / notified by BHEL, RC Puram (whichever is higher) from time to time)
 - (c) Payment of Wages Act, 1936
 - (d) ESI Act, 1948
 - (e) EPF & Misc. Prov. Act, 1952
 - (f) Employees Compensation Act, 1923.
 - (g) A.P Labour Welfare Fund Act, 1987
 - (h) Inter State Migrant Workmen (RE & CS) Act, 1979
 - (i) Payment of Bonus Act, 1965
 - (j) Payment of Gratuity Act, 1972
 - (k) Equal Remuneration Act, 1976
 - (l) The Company's instructions as issued from time to time in regard to working hours, wages, leave, holidays etc.
9. a. The contractor shall obtain License from the Competent Authority if he engages 20 (twenty) or more workmen in BHEL RC Puram under Contract Labour (Regulation and Abolition) Act, 1970. The Contractor shall submit a valid Contract Labour License to BHEL, RC Puram, on or before the date of commencement of contract.
- b. The contractor shall obtain License from the Competent Authority if he engages 5 (five) or more workmen under Inter State Migrant Workmen (RE & CS) Act, 1979 incase the contractor engages workmen recruited from outside State of Andhra Pradesh / other State than in which BHEL RC Puram located. The Contractor shall submit a valid Contract Labour License to BHEL, RC Puram, on or before the date of commencement of contract.
10. The Contractor shall produce the following Registers and forms (as applicable) before commencement of work, for verification by the Contract Executing Officer / Contract Labour Cell of the company, **without which labour entry permission will not be granted.**
- | | | |
|-----------------|---|---|
| (a) Form XIII | - | Register of workmen employed by contractor (Rule 75) |
| (b) Form XIV | - | Employment card issued by contractor (Rule 76) |
| (c) Form XVI | - | Muster Roll (Rule 78(1)(a)(i)) |
| (d) Form XVII - | | Register of wages (Rule 78(1)(a)(i)) |
| (e) Form XVIII- | | Register of wages-cum Muster Roll (in case of weekly payment) |
| (f) Form XIX | - | Wage Slip (Rule 78)(b) |
| (g) Form XX | - | Register of deduction for damages or loss (Rule 78)(1)(a)(ii) |
| (h) Form XXI | - | Register of files (Rule 78)(1)(a)(ii) |
| (i) Form XXII - | | Register of advances (Rule 78)(1)(a)(ii) |
| (j) Form XXIII- | | Register of overtime (Rule 78)(1)(a)(iii) |
| (k) Form XXIV- | | Return to be sent by the contractor to licencing Officer (Rule 82)(1) |

The contractor shall maintain the above and any other registers and forms applicable under various Acts/Rules neatly, completely and legibly for inspection by various statutory authorities and by the company officials even at short notice. All above registers shall be maintained at the place of work.

In addition to the above the following are required to be taken care by the contractor under Contract Labour (R&A) Act 1970

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- a) Copy of licence to be displayed at the work spot as required under Rule 25 (2) 9 (ix)
 - b) Rates of wages, hours of work, wage period, date of payment, name and address of inspector, date of payment of unpaid wage in English, Hindi and Telugu are to be displayed as per rule 81 (1) (i)
 - c) Notice showing wage period, place and date of disbursement of wages has to be displayed and a copy of the same is required to be sent to Principal Employer under acknowledgement as per rule 71
 - d) An abstract of the Act and Rules in the form approved by the Chief Labour Commissioner (Central), New Delhi to be displayed in English and Hindi and Telugu as per rule 79.
 - e) Copies of Notices required to be displayed as per Rule 81(1)(i) and any change occur the same shall be submitted as per Rule 81 (2).
 - f) Notice of commencement of work has to be given as required under Rule 25 (2) (viii) in form VIA
 - g) Register of person employed to be maintained as required under Rule 75
 - h) Employment cards were to be issued as per rule 76 (i)
 - i) Register of wages and muster roll to be maintained as per Rule 78(1)(a)(i)
 - j) Register of fines, deductions and advances to be maintained as per Rule 78(1)(a)(ii)
 - k) Register of overtime to be maintained as per rule 78(1)(a)(iii)
 - l) Wage slips have to be issued as per rule 78(1)(b)
 - m) Half Yearly return for the half year ending _____ to be submitted as per Rule 82(1) to the Licensing Officer
 - n) Latrines and Urinals to be provided for the use of the workers as per rule 51 to 56 read with section 18
 - o) First aid facilities to be provided for the use of the workers as per rule 58 read with section 19
 - p) Creche facilities to be provided for the use of children of women as per Rule 25(2)(vi)
11. The contractor shall observe
 - (a) Weekly rest day
 - (b) The Company List of Holidays.
 12. Contractor shall obtain complete bio-data of the labour, employment certificate and Antecedent verification (issued by Local Police Dept) in the prescribed form for each labour and supervisor engaged by him, and shall submit the same to the Human Resource Department/IR section through the contract executing officers before commencement of the work.
 13. The entry permits are to be issued to the Contract Labour by Assistant Commandant / Plant (CISF), based on the requisition submitted by Contract Executing Officer and forwarded by Executive in-charge of Contract Labour Cell of HR IR section
 14. Every contractor shall submit a notice regarding commencement and completion of work in Form-VI A&B [Rule 25(viii) & 81(3)] to Contract Labour Cell of HR IR section through his contract executing officer, for forwarding the same to State/ Central Labour Department as applicable
 15. The contractor shall make himself or his representative available at the work spot every day during execution of work, for effective supervision. The Contractor or his supervisor shall submit list of shift wise contract labour engaged by him in duplicate to CISF Personnel at J Gate on daily basis.
 16. The Contractors shall pay to their workmen applicable minimum wages / BHEL Fair Wages whichever is higher.

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17. The Contractor shall comply with all the statutory provisions such as Bonus (% as prevailing in BHEL RC Puram), PF (12%), EDLI (0.5%), ESI, Gratuity, Service Tax 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.
18. The contractor shall attend to all inspections notified/conducted by the personnel department, Labour department, P.F. authorities, Factory Inspectors, ESI inspectors or any other such authorities under the Act, failing which appropriate action shall be initiated.
19. Non-compliance of provisions under any Acts/Rule/instructions/guidelines shall make the contractor liable for penal action including termination of contract.
20. Contractor shall furnish in a separate letter, his place of residence and postal address. The delivery at the above named place or posting in a Post Box regularly maintained by the Postal Department or sending letters registered for acknowledgement of any notice, letter or other communication to the contractor shall be deemed sufficient service thereof upon the contractor. Change in address shall come into force at any time by an instrument executed by the contractor and delivered to the Company official who has signed the contract.
21. The contractor must satisfy himself by personal study and examination of the specifications furnished and understand thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time, dispute/complaint of any nature regarding 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 Company regarding the above.
22. Contractor shall in his absence keep competent agent constantly on the works and any directions or explanations given by the "Contract Signing Officer" or his representative to such agent shall be held to have been given to the contractor himself.
23. Contractor on the advice of the Company official shall immediately remove any person/s employed by him, who may in the opinion of the Company official is incompetent or misconducts himself and such persons shall not be again employed on the works without written permission of the Company official.
24. Wherever required, the contractor shall erect and maintain at his own cost temporary weather proof sheds at such places approved by the Company for keeping materials under cover.
25. The contractor shall give all notices required by the Acts, Regulation, Bye-laws, and pay all fees in connection therewith unless and otherwise arranged and decided in writing with the Company. He shall also ensure that no attachments are made against materials or work forming part of or for the use of the contractor. In all such cases, contractor shall protect and indemnify the Company against any claim or liability arising from or based on the violation of any such laws, ordinances, regulations, orders, decrees or attachment either by himself or by his employees.
26. It shall be contractor's sole responsibility to protect the public and his employees against accident from any cause and provide required safety equipment's and shall indemnify the Company against any claims for damages for injury to the person or property resulting from any such accidents and shall, where the provisions of the

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- Employees compensation Act does not apply, take steps to properly insure against any claims thereunder.
27. In the event of any accident in respect of which compensation may become payable under the Employees Compensation Act. VIII of 1923 whether by the contractor or by the Company as principal, it shall be lawful for the Company to retain out of monies due and payable to the contractor such sum or sums of money as may, in the opinion of the Company shall be final in regard to all matter arising in this clause.
 28. No work shall be done on Sundays or on other declared Holidays of the Company without the written permission of the Company officer in-charge of the work and HR/IR section of Contract Labour Cell. The contractor shall comply with the provisions of the Factories Act 1948 if the same are applicable.
 29. The contractor shall keep his work place clean and safe to avoid injuries to men and damage to finished products/equipment.
 30. On the occurrence of an accident, which results in the death of any of the workmen employed by the contractor or which is so serious as to be likely to result in the death of any such workmen, the contractor shall within 24 hours of the happening of such an accident intimate in writing to the Company official in-charge of the work. The Contractor will also pay compensation as determined by the Authorities.
 31. The contractor shall indemnify the Company against all losses or damages sustained by the Company resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or dues if any and become payable by the Company, as a consequence of failure, the Company to give notice under the Employees Compensation Act 1923 or otherwise confirm to the provisions of the said Act in regard to such accident.
 32. The contractor shall ensure adherence to all statutory requirements applicable to BHEL.
 33. The contractor shall ensure abidance by all the labour laws especially including Contract Labour (R&A) Act 1970, Payment of wages Act 1936, Employees Compensation Act 1923, Factories Act, 1948, Minimum Wages Act 1948, Payment of Bonus Act 1965, Payment of Gratuity Act 1972, ESI Act 1948 and Provident Fund Misc. Prov. Act 1952 etc., as amended from time to time.
 34. The contractor 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 contractor or his representative.
 35. The contractor 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.
 36. The contractor 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 contractor in making such payment, and payment of his bill will be deferred despite other legal action.
 37. The Income tax as applicable will be deducted from the bill of the contractor.
 38. Each Contractor shall 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.

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39. The contractor 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.
40. In addition to the above holidays mentioned at Clause 39, 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 Contractor shall extend paid Holiday/s to his workmen.
41. The contractor shall obtain a separate Provident Fund Code for his establishment and ensure implementation of Provident Fund & Misc. Prov. Act 1952 in the case of all eligible Labours engaged by him in the BHEL RC Puram (employees) and in the process shall conform to all stipulated conditions under the Provident Fund & Misc. Provisions Act 1952 and rules framed thereunder. The PF contribution i.e. 12% shall be paid on total wages paid to the contract labour.
42. Notwithstanding the above clause, in case of any financial loss incurred by company on account of contravention of the Provident Fund regulations or any regulations of rule by the contractor, the contractor shall submit an undertaking to indemnify the company to the extent of the loss incurred by the company.
43. 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.
44. The contractor should engage only those labourers who shall be more than 18 (eighteen) years of age.
45. The contractor shall not resort to subcontracting under any circumstances without written consent from BHEL
46. The contractor shall provide the required safety equipment to the labours engaged by him.
47. Contractor shall issue "Employment Card" to all labour and supervisors covered under the job work contract as prescribed under the Contract Labour (R&A) Acts/Rules.
48. A copy of the agreement between contractor and his labour shall be submitted to the Contract Labour Cell of HR-IR section
49. Whenever the term " CONTRACTOR" is used, it shall be understood to refer to the particular person, firm or corporation with whom an agreement has been made by the concerned Company official for executing the work defined in the concerned agreement and for the purpose of instructions regarding compliance with contract conditions, it shall include the contractor's authorised agents, who are entrusted with the work by contractor.

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50. The quantities mentioned in the agreement schedule are worked out from the relevant drawings in the Company and may or may not be the actuals required for execution.
51. The Company does not expressly or by implication agree that the actual amount of the work to be done at BHEL shall correspond there with, but reserves the right to increase or decrease the quantity of operations / unit / number of persons deployed etc., or portion of the work as he deems necessary.
52. All the works shall be carried out in accordance with the directions and to the satisfaction of the Company official in accordance with the drawings, specifications and instructions. Supplementing or explaining the same as may be from time to time shall be done by the Company official.
53. For all modifications, omissions or additions to the specifications, the Company shall issue revised written instructions and no modifications, omission or addition shall be made unless so authorized and directed by the Company in writing.
54. The Company shall have the privilege of ordering modifications, omissions, or additions at any time before completion of the work.
55. All materials, articles and workmanship shall be the best of their respective kinds for the class of work described in the contract specifications and schedule and materials to be obtained by the contractor shall be from sources approved by the Company.
56. Sample of materials shall be furnished by the contractor at his expense to the Company when called for before executions of any work. On approval of the sample of materials by authorized Official of the Company, the Contractor shall take up the work.
57. The contractor shall 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.
58. The contractor shall have full control over his workmen w.r.t determining service conditions, discharge, dismissal, or otherwise terminate their services at any time. The contractor shall be solely responsible for any claim arising out of employment or termination of employment of his employees and for statutory payments.
59. 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.
60. The contractor shall employ only such personnel who found fit 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.
61. 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.
62. Out of total manpower to be deployed the Contractor shall to the extent possible deploy 15% scheduled castes and 7.5% of scheduled tribe community.

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63. 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.
64. Any casualty or damage caused to the property or person by any untoward incidents while executing this contract will be at the contractors risk & cost.
65. Violation of applicable safety, health & environment related norms, a penalty of ₹5,000.00(Rupees Five thousand) per occasion shall be imposed.
66. 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.
67. 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.
68. The Company shall have power to reject at any stage, any work which is considered to be defective in quality of material or workmanship and shall not be debarred from rejecting wrong materials by reasons of having previously passed them in an unworked condition. Any portion of the work or materials rejected or pronounced to be inferior or not in accordance with specifications of the Company shall be taken down and removed from the work site at the contractor's expenses.
69. The decision of the Company shall be final and binding on the contractor on all technical questions which may arise in the contract with respect to material, workmanship, removal of improper work, specifications, notes, procedures etc.
70. The decision of the "Contract Signing Officer" or any officer deputed by him duly authorised on his behalf, in respect of the rate of progress and the quality of work or material shall be final and binding on the Contractor.
71. 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 to secure a satisfactory quality of work and rate of progress which in the opinion of the Company will ensure the completion of the work within the time specified.
72. If at any time, during the progress of work or any part of it such methods or equipment appear to the Company official to be insufficient or inappropriate for ensuring the quality of work required or rate of progress, Company Officials may order the contractor to increase their efficiency or to improve their quality of work and the contractor shall comply with such order/s and on failure of which the Company may take such action as it deems fit to improve the quality of work or the rate of progress required from the contractor and all such actions taken by the Company shall be at the cost and risk of the contractor.
73. It is open to the Company to lend or supply to the contractor any tools, implements, materials and machinery that are needed by the contractor, which in the opinion of the Company is essential to improve the quality or progress of work. The contractor shall pay such deposit or charges that may be fixed or determined by the Company for any such articles or machinery lent or hired to the contractor.
74. Any electric power required for contractor's machinery for the purpose of work shall be supplied by the Company at the written request of the contractor at one point subject to the observance of rules and regulations of Electricity Board/Company and charges there on shall be recovered from the contractor.
75. The contractor shall comply to all applicable rules & regulations and laws of Central/State Govt. or any local authority and that of the Company with whose system the machinery is supposed to be connected.

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76. All waste material as it accumulates shall be removed from the site to the point of disposal as indicated from time to time by the Company. If this is not adhered to, the Company shall remove the scrap and recover the cost of these operations from the bills of the contractor.
77. Any sum due from the contractor on account of tools and plants, stores, or any other items provided by the Company shall be deducted from the respective bills / any other payments due to the Contractor. Any loss or damages caused by the workmen of the contractor arising due to any strike/ stoppage of works/dharnas etc., The Contractor shall be responsible for such actions of their workmen engaged and all such losses or damages incurred to the company shall be recovered from the contractor.
78. BHEL reserves the right to terminate the contract by issuing Thirty (30) days' Notice on account of failure of the contractor in discharging their respective contractual obligations mentioned in this contract.
79. BHEL reserves its right to terminate the contract due to any failure on the part of the Contractor 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 Contractor shall be final and binding on the Contractor.
80. 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.
81. In the event of any failure on the part of the contractor, BHEL shall have the right without prejudice to any other right or remedies, to get the work done through any other agency and the Contractor 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 contractor or by initiating appropriate legal action.
82. In case of breach of any of the terms and conditions of the contract, a claim shall be lodged under the bank guarantee with the guarantor or forfeiture of EMD/Security Deposit at the discretion of the competent authority of the Company. On successful completion of the contract to the satisfaction of the Company, the bank guarantee/SD shall be released after due claim period.
83. 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. 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 Arbitration 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
84. In case of any suit or other legal proceeding arising under this contract, the courts at Sangareddy (Medak Dist.) Only shall have the jurisdiction.
85. The Company reserves the right to enter into parallel agreement with one or more contractor at their discretion.

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86. Disputes, grievances between the contractor and his labour, will have to be settled by the Contractor only within two weeks.
87. The labour employed by the Contractor, if found in abetting any fellow labour or Contractors or any BHEL employee, the same shall be considered as an act of indiscipline. Such labourers shall be removed from the services of the contractor, on the advice of BHEL. Further, the Contractor shall initiate every necessary action in accordance with the relevant Laws, Rules & Regulations and enactments of State and Central Government as applicable from time to time.
88. Wherever BHEL/COMPANY standards are mentioned, copies of which are enclosed shall be strictly followed.
89. Nothing contained in the contract agreement and its conditions shall be deemed to preclude or render inoperative the service of any notice, letter or other communication upon the contractor personally.
90. The decision of the "Contract Signing Officer" shall be final and binding on the contractor on all technical questions which may arise touching the contract with respect to the quality of material, workmanship, removal of improper work, interpretation of the working drawings, specifications, notes, procedures etc.
91. Over and above the agreed payments payable to the Contract Labours, declared by BHEL, shall be borne by BHEL.

In witness thereof the parties mentioned above have signed the agreement on the day and year above written in the presence of:

Signature of the Contractor

Signature of the officer on
behalf of the Company.

Witness:

1. Signature, Name and Address.
2. Signature, Name and Address.

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Annexure-C**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.

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 as on date i.e. **01.04.2016**

U S W :	Rs. 494.80 per day Inclusive of weekly off.
S S W :	Rs. 546.15
S W :	Rs. 596.96

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

PF @ 13.36% inclusive of administrative charges @ 1.61% and ESI @ 4.75% of basic wages should be contributed by the contractor on above daily wages and payment of Minimum Bonus under the Bonus Act 1965.

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.

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ANNEXURE-D

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.

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ANNEXURE - E**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.

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.

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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.
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.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY

Issued to: _____



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

TENDER DOCUMENTS
PART B-PRICE BID

Name of the work: **"Rate contract for carrying out Routine Annual Civil Maintenance works like Masonry, Flooring, Plumbing, Fabrication, Carpentry, Painting, Road works and Horticulture works etc., in Township".**

Tender Notice: **HY/TA/OT-03/2016-17, Date: 13.07.2016**

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1. Price bid – Schedule of Rates

TENDERER
Address:

ISSUING OFFICER

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY