



**BHARAT HEAVY ELECTRICALS LIMITED
CENTRALISED STAMPING UNIT & FABRICATION PLANT
JAGDISHPUR**

**TENDER FOR FLOORING, PAVEMENTS FOR BADMINTON
COURTS & MISCELLANEOUS CIVIL WORKS IN BHEL
TOWNSHIP AT JAGDISHPUR**

Tender Enquiry No: BHE/CSU/CVL/075

SECTION III

SPECIAL CONDITIONS OF CONTRACT

**BHARAT HEAVY ELECTRICALS LIMITED
(A GOVERNMENT OF INDIA UNDERTAKING)
CSU & FP
Industrial Area
Jagdishpur (UP) 227817**

SECTION-III SPECIAL CONDITIONS OF CONTRACTS

1. INTRODUCTION

- 1.1. The terms and conditions mentioned in this section are in addition to what are stated in Section – II (General Conditions of Contract) of CSU & FP, BHEL. The General Conditions of Contract (Section – II) are available in Civil Department of CSU & FP, BHEL Jagdishpur. In case of any contradiction between the terms and conditions given in Section - II and those specified in this Section- III, the terms and conditions of this Section–3 shall prevail.

2. SITE LOCATION

- 2.1. Bharat Heavy Electricals Ltd. has manufacturing plants (Centralized Stamping Unit – CSU & fabrication Plant – FP) at Jagdishpur; district Amethi, UP. The New facilities are located adjacent to the existing Insulator Plant (IP). The site area is about 36.6 Acre. The site location is about 80 KM south east of Lucknow on Lucknow Varanasi highway and approx 55 KM from Sultanpur and 210 Km from Varanasi. The nearest Airport is Amousi at Lucknow.

3. SCOPE OF WORK :

- 3.1. The scope of work of contractor shall broadly cover construction / renovation & modification of the following works:
- a) Brick on edge flooring in cement mortar behind BHEL Hospital – Area to be dressed up for maintaining slope and carrying out Brick-on-edge flooring in Cement Mortar of grade as defined in BOQ (Section-IV)
 - b) Drainage works behind BHEL Hospital & along road length with specifications as per relevant items of BOQ.
 - c) MS framed structure & sheeting behind Transit Hostel, CEO Resi. Porch Terrace & over service shafts in Multi-storey Blocks. New sheeting work shall be as per sl.no. 29 of BOQ and other specifications mentioned therein. The erection and fixing of existing available sheets at site shall be as per sl.no. 30 of BOQ and other specifications mentioned therein. (The sheets for Items no. 30 shall be made available to the contractor for fixing & erection works free of cost by BHEL)
 - d) Road widening in front of Type-C quarters (IP, BHEL) for approach road to A1-A2 Block. The section shall be Cement Concrete over dry brick-on-edge flooring with joints filling in sand. Ornamental work shall be done to give stone masonry finish as per the requirement of BHEL.
 - e) Construction of EPABX server room in C-1 Block parking. Construction of walls in existing parking section shall be required as per specification and relevant items of the BOQ.
 - f) Construction of 2 Nos. Cement Concrete Badminton Courts. The location of Courts shall be constructed one in South side of Type A-1 Kailash Block and

other in Club area in CSU & FP Township. The section of Badminton Court pavement shall be as per drawings that shall be provided prior to execution.

- g) Brick on edge flooring in cement mortar / Cement Concrete flooring around transformer foundation and substation area with ornamental work to give stone masonry finish as per BHEL's requirement.
 - h) Associated external services e.g leveling and drainage and other external miscellaneous works and other external services as required for proper functioning of the township.
 - i) Any other infrastructural work and building within the premises of BHEL, Jagdishpur.
- 3.2. The bidder's scope shall broadly include construction of all the civil & finishing works related to buildings and foundations which includes earth work, plain & reinforced cement concrete, piling work, reinforcement, scaffolding, formwork, masonry work, floor finishing, skirting, plastering, painting, roof finishes, doors / windows / ventilators /rolling shutters, internal & external plumbing, water supply, water proofing, drainage & sewerage, metal cladding, fencing, roads, MS embedment etc.; as well as supply of all materials, consumables, labour, tools and plants, transportation and storage, sample testing etc.; all complete as per BOQ, specifications and drawings.
- 3.3. The specific technical requirements for work to be executed under this Contract shall be as per Section V. **The applicability of specifications shall be limited to the scope of works only as specified in the BOQ.** The Technical Specifications (Section V) are available in Civil Department of CSU & FP, BHEL Jagdishpur
- 3.4. The scope of work will also include such other related works although they may not be specifically mentioned above and all such incidental items not specified but reasonably implied and necessary for completion of the job as a whole and as desired and as directed by the engineer. The detail scope of work covered above is not a comprehensive list of items of work involved. The detail scope of work may vary considerably depending on the actual construction requirements.
- 3.5. Unless otherwise specified, the work to be provided by the contractor for the items mentioned in the "Bill of Quantities" shall include but not be limited to the following.
- a) Furnishing all labor, materials, supervision, construction plans, equipment, supplies, transport, to and from the site, fuel, electricity, compressed air, water, transit and storage insurance and all other incidental items and temporary works not shown or specified but reasonably implied or necessary for the proper completion, maintenance and handling over the works, except in accordance with the stipulations laid down in the contract documents and additional stipulations as may be provide by the engineer during the course of works.
 - b) Furnishing samples of all materials required by the engineers for testing / inspection and approval for use in the works. The engineer for final incorporation in the works may retain the samples.

- c) Furnishing test reports for the products used or intended to be used, if called for the specifications or if so desired by the engineer.
 - d) Giving all notices, paying all fees, taxes etc., in accordance with the general conditions of contract, that is required for all works including temporary works.
 - e) Arranging manufacturer's supervision for items of work done as per manufacturer's specifications when so specified.
 - f) The contractor shall provide BHEL such a assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing any work and the quality, weight or quantity of any material used.
 - g) Providing all incidental items not shown or specified but reasonably implied or necessary for the successful completion of the work in accordance with contract.
 - h) Make necessary storage arrangement / sheds of adequate capacity to store cement within his normal scope without any extra cost to BHEL.
 - i) Arrange necessary T & P and IMTEs for carrying out the work. A list of such T & P and IMTEs required for such work as a minimum is given in **Annexure SCC-I and SCC-II.**
- 3.6. BHEL is ISO 9001-2000, ISO 14001-1996 and OHSAS 18001-1999 certified company. The contractor in all respects shall organize his work, systems, environment, process control documentation, tools, plant, inspection, measuring and testing equipments etc. as per instructions of Engineer.
- 3.7. The contractor shall also comply with applicable legislation and regulations with regards to Health, safety and environmental aspects for minimizing risk arising from occupational health, safety hazards, controlling pollution and wastage.
- 3.8. BHEL and their Consultant may depute their representative for checking and supervision of important stages of work. The contractor shall be required to provide all facilities for inspection of works at no extra cost to BHEL. Any defect in quality of work or deviations from drawings / specifications pointed out during such inspection shall be made good by the contractor in the same way as if pointed out by the BHEL Engineer, without any cost implication to BHEL.

4. TIME SCHEDULE

- 4.1. The contractor is required to commence the work within 15 days from the date of issue of letter of intent unless BHEL decides to fix any other later date.
- 4.2. Entire work as detailed in tender specification shall be completed within **3 months** as per the programs / milestones decided by BHEL from time to time. **The date of start of work shall be taken as given in Letter of Intent.**
- 4.3. Contractor has to mobilise adequate resources to meet his commitments to BHEL as indicated from time to time. **In case due to reasons not attributable to the contractor, the work gets delayed and additional manpower / resources**

have to be mobilized so as to expedite the work to meet various milestones, same shall be done within the quoted rates as per Rate Schedule, at no extra cost to BHEL. In the event the contractor fails to respond to these requirements, BHEL shall take appropriate actions to meet its commitments in line with the provisions of General Conditions of Contract.

- 4.4. In case due to reasons not attributable to the contractor, the work gets delayed and scheduled completion gets extended, time extension will be granted by BHEL but in no case over run compensation will be payable.
- 4.5. The work under the scope of this contract is deemed to be completed in all respects, only when all the works are carried out as per satisfaction of BHEL. The decision of BHEL on completion date shall be final and binding on the contractor.

5. TAKING OVER OF WORKS BY BHEL

- 5.1. All works shall be taken over by BHEL in part or in full when it has been completed in all respects and /or can be put to use satisfactorily. The complete work under the contract shall be taken over only after completion of all punch points, pending work, rework wherever required, site clearing and reconciliation of materials.
- 5.2. The guarantee period shall start only after the complete work under the contract has been taken over by BHEL.

6. PRICE

- 6.1. Price quoted shall be fixed and not subject to any escalation whatsoever during the period of execution of the Contract including the extended period, if any.
- 6.2. The quoted price shall include all taxes and duties (except service tax). Service tax shall be quoted separately in the bill of quantities and price schedule under section-IV.
- 6.3. Price quoted shall be in INR (Indian national Rupee) only.
- 6.4. **No price variation /over run charges** on account of any increase whatsoever, (irrespective of whether escalation is steep/ unanticipated) will be payable during the entire period of execution of Contract including extended period, if any.

7. SALES TAX / WORKS CONTRACT TAX

- 7.1. Sales tax on transfer of property in goods involved in works contract is applicable as per laws in force in U.P. state. The contractor shall register himself with the sales tax authorities of the state and submit proof of such registration to BHEL along with the first RA bill. Deduction of tax at source shall be made as per the provisions of law. The TDS as applicable shall be deducted from the bills of the contractor and deposited with the UP trade tax authorities.
- 7.2. Contractor shall get his organization registered with concerned sales tax authorities within 30 days of award of this contract. The delay on this account and delay in bringing the material shall be to contractor's account and no extension of time shall be allowed on this account. The sales tax registration for this contract shall be forwarded to BHEL. In case the contractor is already registered for sales tax with Govt. Authorities he must quote his registration no., while submitting their tender.
- 7.3. Contractor has to make his own arrangement at his cost for completing the formalities, if required, with Sales Tax Authorities, for bringing their materials, plants, and equipment at site for the execution of the work under this contract.

8. SERVICE TAX

- 8.1. Contractor's price/ rates shall be exclusive of service tax and cess on output services.
- 8.2. Contractor shall deposit the service tax with the concerned tax authorities, such amount will be paid by BHEL. Contractor shall submit to BHEL documentary evidence of service tax registration and remittance records of such tax immediately after depositing the tax with the concerned authorities.
- 8.3. (i) The prevailing rate of service tax is 12.36 % (Four point one two percent), inclusive of education cess and SAH education cess under works contract (composition scheme for payment of service tax) Rules, 2007

(ii) Service tax payable on free issue of material by BHEL shall be reimbursed as per prevalent rule. However, prior consent of BHEL shall be required for calculating value of free material issued.

9. INCOME TAX

- 9.1. Income Tax at the prevailing rate on gross value of work done and applicable surcharge and education cess shall be deducted from the running bills as per relevant rules unless exempted by the Income Tax Authorities.

10. NEW TAXES/ LEVIES

- 10.1. In case the Government imposes any new tax/ levy on the output services/ goods / work after the award of work, the same shall be reimbursed by BHEL at actuals. All necessary documents as required by BHEL shall have to be provided by the contractor. However, in the event of delay in work execution solely attributable to

the contractor the new taxes/ levies imposed during the delay period shall not be reimbursed to the contractor.

- 10.2. In case any tax/levy/duty etc becomes applicable after the date of bidder's offer, the bidder/ Contractor must convey it's impact on his price duly substantiated by documentary evidence in support of the same before opening of the Price Bid. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
- 10.3. No reimbursement on account of increase/ decrease in the rate of taxes, levies, duties etc on input goods/ services/ work shall be made. Bidder has to make his own assessment of the impact of future variation if any, in rates/ duties/ levies etc in his price bid.

11. MODALITIES OF TAX INCIDENCE ON BHEL

- 11.1. Wherever the relevant tax laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL will have the right to adopt the appropriate one considering the amount of tax liability on BHEL as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the contractor for discharging the obligation of BHEL in respect of the tax liability to the contractor.
- 11.2. The contractor shall pay all (save the specific exclusions as enumerated in this contract) taxes, fees, misc. charges, deposits, duties, tools, royalties, commissions or other charges which may be levied on the input goods and services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.

12. RATE SCHEDULE CUM BOQ

- 12.1. Contractor shall fully understand description and scope of work before quoting. The scope of work and responsibility of the contractor as mentioned under this specification shall be covered within the quoted / finally accepted rates.
- 12.2. The Tenderer shall quote the prices/rates for entire scope of work as per the rate schedule only, in part II - price bid. Conditional price bids or price bids with any deviation / clarification etc. are liable to be rejected. No cutting / erasing / over writing shall be done.
- 12.3. Quantities mentioned in the rate schedules are approximate only and liable for variation both on positive and negative sides. The tentative contract value (CV) for entire scope of work shall be calculated as per finally quoted / accepted item rates & the quantities indicated in Rate Schedule cum BOQ.
- 12.4. In addition to the above, the Contractor shall also submit the rates as asked for in the **Annexure: SCC-III**.

13. EVALUATION OF THE OFFERS

- 13.1. Comparison of the prices & determination of lowest bidder shall be as per Price Schedule for the complete scope.
- 13.2. The grand total price of all the items in BOQ shall be the basis for deciding the lowest bidder. Refer section-IV i.e Bill of Quantities and price schedule

VARIATION IN SCOPE OF WORK / DEVIATION LIMIT

- 13.1. BHEL reserves the right to add or delete items of scope of work depending upon the final requirement. For such addition or deletion the Contract value shall be adjusted based on the quoted unit price. Such variation is not expected to be more than $\pm 15\%$ of the contract value. However, the quantities in the BOQ are tentative which may vary or deviate upto any limit provided the contract value is limited to $\pm 15\%$. The price quoted by the Contractor shall be valid for such variation. Variation beyond the above limit shall be settled on mutually agreed rates. This clause to be read in conjunction with Cl 44 and 45 of section-II i.e GCC.

14. EXTRA WORK

- 14.1. The Contractor shall, when requested by BHEL, perform extra work at mutually agreed rates.

15. TERMS OF PAYMENT

- 15.1. The Contractor shall be paid monthly running bill of **90%** of the value of the work actually executed on site provided the work has been executed to the satisfaction of the Engineer.
- 15.2. The balance **10%** of the bill value shall be released on taking over of all works by BHEL with the final bill.
- 15.3. From the amount payable, recovery such as advances, security deposit, taxes etc. would be made.
- 15.4. Measurement of work completed shall be done by the Contractor and submitted to BHEL for checking and approval. For this purpose, Contractor shall submit hard copies as well as a soft copy in the CD containing abstract & detailed measurement sheets of the bill. The measurement sheets and the bill will be checked and approved by BHEL for further processing, or returned to the Contractor for correction and resubmission. The certificate of Engineer regarding such approval and passing of sums shall be final and conclusive against the Contractor.
- 15.5. The abstract of the measurements and RA bill shall be entered in BHEL Measurement Book and signed and dated by both parties as per the provisions of the General Conditions of Contract.
- 15.6. All running bill payments shall be regarded as advance payments against the final bill. Any certificate relating to the work done during monthly running bills may

be modified by any subsequent interim certificates or by the final certificates and no certificate of the Engineer supporting an advance payment shall of itself be conclusive evidence that any work or materials to which it relates are in accordance with the contract.

- 15.7. In case any amount is withheld by BHEL during course of execution of work on account of non-compliance of contract requirement, the same shall be recovered / released from the contractors bills as deemed fit by the engineer-in-charge of BHEL and the decision of engineer-in-charge shall be final in this regard and binding on the contractor.

16. GUARANTEE

- 16.1. The works constructed by the Contractor shall be guaranteed for a period of 12 (twelve) months from taking over of all works by BHEL. During this period the Contractor shall attend to all the matters relating to the Contract work and rework as required by BHEL.

17. PENALTY FOR DELAY

- 18.1 If the Work is not completed within the specified period and any extension thereof, the Contractor shall be liable to pay penalty for delay in completion of work @ 0.5% of the value of unexecuted portion of work for every week of delay or part thereof, subjected to a maximum of 10 % of the contract value without BHEL being required to establish and prove the actual loss /damage suffered by BHEL on account of such delay.

18. COMPLETION CERTIFICATES/ NOC FROM LOCAL STATUTORY BODIES

- 18.1. Contractor has to arrange at his own cost to obtain building/ work completion certificates or NOCs if required to be obtained from the local statutory bodies of central and state govt. However, any fees required for obtaining such NOCs shall be paid by BHEL on production of relevant depository challans/ receipts from such Govt. authorities.

19. DRAWINGS AND SPECIFICATIONS

- 20.1 The construction of the works shall be taken up on the basis of construction drawings which shall be issued by BHEL after award of the work.

Annexure-SCC-I**INDICATIVE LIST OF TOOLS AND PLANTS (T&Ps) TO BE ARRANGED BY THE CONTRACTOR AT HIS OWN COST**

SL NO	T & P EQUIPMENT	QUANTITY
1.	CONCRETE MIXTURE M/Cs	AS PER REQUIREMENT
2	CONCRETE VIBRATORS	AS PER REQUIREMENT
3	15/20 MT TRAILORS WITH PULLING UNIT TRACTOR - TRAILORS	1 NO
4	WATER TANKER WITH SPRINKLER	AS PER REQUIREMENT
5	DEWATERING PUMP 5/10/25 HP	1 NOS
6	SLUDGE / SLURRY PUMP (DIESEL/ ELEC)	AS PER REQUIREMENT
7	SUBMERSIBLE PUMP (DIESEL/ ELEC)	AS PER REQUIREMENT
8	AIR COMPRESSORS	1 NO.
9	DG SETS OF 10 KVA CAPACITY	1 NO
10	HYD EXCAVATORS/ POCLAINS / JCB AND DUMPERS	AS PER REQUIREMENT
11	PLATE COMPACTOR	1 NO.
12	EARTH COMPACTOR	AS PER REQUIREMENT
13	MS SCAFFOLDINGS	AS PER REQUIREMENT
14	ROAD ROLLER	1 NO
15	PORTABLE LIGHTING MAST / LIGHTING SYSTEM	AS PER REQUIREMENT
16	PLY SHUTTERING BOARD AND MS SHUTTERINGS	AS PER REQUIREMENT
17	CEMENT STORAGE SHED OF SUFFICIENT CAPACITY	1 NO.

NOTES

- 1 The above list specifies only major T&Ps (may not be complete to be deployed by the contractor). All additional / other tools and plants including trucks & devices, tackles, machines, measuring instruments etc. in good and safe working conditions which are required for satisfactory & timely completion of work shall also be deployed by the contractor within finally accepted rate / price.

Annexure- SCC II**INDICATIVE LIST OF INSPECTION MEASURING AND TESTING EQUIPMENTS (IMTEs) TO BE ARRANGED BY THE CONTRACTOR AT HIS OWN COST**

SL NO	IMTE EQUIPMENT	QTY
1	THEODOLITE ONE SECOND ACCURACY	1 NO
2	AUTO LEVEL AND STAFF	1 NO
3	DUMPY LEVEL UPTO 350 MM	2 NO
4	AUTOMATIC COMPRESSION TESTING MACHINE (2000 KN)	1 NO
5	CONSTRUCTION MATERIAL TEST EQUIPMENT	AS PER REQUIREMENT
6	CONCRETE CUBE MOULD (150 X 150 X 150) mm	6 NOS
7	CONCRETE slump cone WITH TAMPING ROD	1 SET
8	COARSE AGGREGATE SIEVES & SAND SIEVER	1 SET
9	MOISTURE CONTAINER (STEEL/ ALUMINIUM)	5 NO
10	CORE CUTTER TEST APPARATUS	1 SETS
11	RAPID MOISTURE METER	1 NOS
12	CUBE MOULDS (70 MM SIZE)	6 NOS

NOTES:

1. The above list specifies only major IMTEs (may not be complete to be deployed by the contractor). Contractor has to set up the field laboratory with facilities required for material & concrete testing. All additional / other IMTEs / measuring instruments etc. in good and safe working conditions which are required for satisfactory & timely completion of work shall also be deployed by the contractor within finally accepted rate / price.
2. Other terms and conditions regarding above items please also refer clause 38 T&P/IMTEs).

ANNEXURE: SCC -III**ANALYSIS OF UNIT RATE QUOTED**

Sl.no.	Description	Percentage of the unit rate quoted	Remarks
1.	Salary & Wages of Staff & workers		
2.	Consumables (a) Gases (b) Welding Electrodes (c) P.O.L. (d) Others		
3.	Depreciation & maintenance for T & Ps		
4.	Depreciation & maintenance for other items		
5.	Establishment and administrative expences of site		
6.	Overheads		
7.	Profit		

(Signature of tenderer)
With Stamp



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SECTION IV

BILL OF QUANTITIES AND PRICE SCHEDULE

**BHARAT HEAVY ELECTRICALS LIMITED
(A GOVERNMENT OF INDIA UNDERTAKING)
CSU & FP
Industrial Area
Jagdishpur (UP) 227817**



CENTRALISED STAMPING UNIT & FABRICATION PLANT, BHEL, JAGDISHPUR, SULTANPUR

BILL OF QUANTITIES & UN-PRICE SCHEDULE FOR FLOORING, PAVEMENTS FOR BADMINTON COURTS & MISCELLANEOUS CIVIL WORKS IN BHEL TOWNSHIP AT JAGDISHPUR

Item No.	DESCRIPTION OF ITEM OF WORK	UNIT	Flooring in Area behind hospital	CC Road Work	Shed work & framing	Badminton Court Pavements (2Nos.)	EPBAX Server room	Transf. & Substation Area development	Total Quantity	Quoted Rate	Total Amount
1	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	litre	6						6		
2	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment : Treatment of soil under existing floors using chemical emulsion (With Chlorpyrifos/Lindane E.C. 20% with 1% concentration) @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 Coarse sand) to match the existing floor (excluding the cost of chemical emulsion) :	sqm	20						20		
3	Earth work in excavation in all kinds of soil by mechanical means (Hydraulic excavator) / manual means in foundations, trenches or drains etc. including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.	cum		63		65		5	133		
4	Carriage of Earth & other materials by mechanical transport including loading, unloading and stacking lead upto 1 Km	cum		31.5		32.5		2.5	67		
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	cum		31.5		32.5		2.5	67		
6	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum		23					23		
7	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12mm cement mortar in ratio 1:6 (1cement :6 coarse sand) ,including filling the joints with same cement mortar (ratio 1:6) ,with common burnt clay non modular bricks	sqm	350		25			150	525		
8	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand , with common burnt clay non modular bricks.	sqm		210					210		
9	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, Lintels, beams, plinth beams, girders, bressumers and cantilevers etc.	sqm		15		40		7	62		
10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of dia as per requirement.	kg		200		580		125	905		
11	Providing and laying in position cement concrete (PCC) of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	cum				22		0.5	23		
12	Providing and laying in position specified grade of reinforced cement concrete (RCC) , excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum						2.5	3		



CENTRALISED STAMPING UNIT & FABRICATION PLANT, BHEL, JAGDISHPUR, SULTANPUR

BILL OF QUANTITIES & UN-PRICE SCHEDULE FOR FLOORING, PAVEMENTS FOR BADMINTON COURTS & MISCELLANEOUS CIVIL WORKS IN BHEL TOWNSHIP AT JAGDISHPUR

Item No.	DESCRIPTION OF ITEM OF WORK	UNIT	Flooring in Area behind hospital	CC Road Work	Shed work & framing	Badminton Court Pavements (2Nos.)	EPBAX Server room	Transf. & Substation Area development	Total Quantity	Quoted Rate	Total Amount
13	Cement concrete (CC) pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete.	cum		23	7	26		11.25	67		
14	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	sqm		210		288		150	648		
15	Neat cement punning.	sqm			25	288			313		
16	Providing and laying Non pressure NP 2 class (light duty) RCC pipe with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete. 200 mm. dia. RCC Pipes	metre	65						65		
17	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : inside dimensions 455x610 mm and 45 cm deep for single pipe line , With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	10						10		
18	C.I. cover without frame 300x300 mm inside i/c cover of 4.50 kg	each	10						10		
19	Rectangular cover 455x610 mm without frame (low duty)	each	10						10		
20	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)	cum					10		10		
21	12mm thick plastering in 1:4 cement and sand (FM 1.25) mortar over brick work and RCC work at any level including rounding, chamfering, etc. finished smooth including cost of all material labour and T&P required for proper completion of work.	sqm					45		45		
22	15mm thick plastering in 1:4 cement and sand (FM 1.25) mortar over wall or half brick wall and RCC at any level including rounding, chamfer, etc. finished smooth including cost of all material labour and T&P required for proper completion of work	sqm					45		45		
23	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry etc. complete : 40 mm thick with 20 mm nominal size stone aggregate	sqm			25				25		
24	White washing with lime to give an even shade over New work (three or more coats)	sqm			50				50		



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BILL OF QUANTITIES & UN-PRICE SCHEDULE FOR FLOORING, PAVEMENTS FOR BADMINTON COURTS & MISCELLANEOUS CIVIL WORKS IN BHEL TOWNSHIP AT JAGDISHPUR

Item No.	DESCRIPTION OF ITEM OF WORK	UNIT	Flooring in Area behind hospital	CC Road Work	Shed work & framing	Badminton Court Pavements (2Nos.)	EPBAX Server room	Transf. & Substation Area development	Total Quantity	Quoted Rate	Total Amount
25	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade (two or more coats) over and including water thinnable priming coat with cement primer.	sqm					90		90		
26	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters : 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm					3		3		
27	painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm					10		10		
28	Structural steel Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. Angle size 50x50x6	Kg.			1600				1600		
29	Providing & fixing 3 mm thick transparent white acrylic plastic sheet of approved quality on existing frame work complete as per the instructions of Engineer-in-charge. (Rates to include cost of screws etc for fixing of sheets but excluding of base frame work)	sqm			87				87		
30	Taking asbestos / GI sheets from site and fixing on existing frame work complete as per the instructions of Engineer-in-charge. (Rates to include cost of screws, J-hooks, washers etc. for fixing of sheets but excluding cost of Asbestos / GI sheets & base frame work)	sqm			126				126		
31	Providing Services of unskilled manpower e.g. helpers, beldars etc.	Man days			15				15		
32	Providing Services of semiskilled manpower e.g. Mason, Carpenter etc.	Man days			8				8		
Grand Total (Excluding Service Tax) =											