



SECTION-III
SPECIAL CONDITIONS OF CONTRACT

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 (GCC) of the tender document. 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–III shall prevail.

2. SITE LOCATION

- 2.1. Bharat Heavy Electricals Ltd. has manufacturing plants (Centralized Stamping & Fabrication Plant – CS & FP) at Jagdishpur; District Amethi, UP. The New facilities are located adjacent to the existing Insulator Plant (IP). The site location is about 80 KM southeast of Lucknow on Lucknow Varanasi highway and approx 55 KM from Sultanpur and 210 Km from Varanasi. The nearest Airport is Amausi at Lucknow.

3. SCOPE OF WORK:

- 3.1. The scope of work of contractor shall broadly cover following civil works:
- a) Construction of Road Section, Pathways & Kerb stones,
 - b) Construction of RCC Pipe Drainage system with chambers,
 - c) Construction of Curtain Wall & Misc. Works,
 - d) Any other similar work as required by BHEL within the premises of BHEL Jagdishpur complex.
 - e) Moreover, the scope of work shall be as per BOQ (Section-IV)
- 3.2. The bidder's scope shall broadly include construction of all civil & finishing works related to road construction, drainage construction, Substructure, Superstructure etc. and which includes earth work, WBM Work, Bituminous Work, Plain, Reinforced and Pre-cast cement concrete work, reinforcement, scaffolding, formwork, masonry work, wall finishing, skirting, plastering, painting, 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.**
- 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. Compliances to be observed by the contractor
- a) The contractor shall take necessary precautions for the safety of his workmen.
 - b) The contractor shall take proper care to avoid any damage to BHEL property. If any damage does take place, the contractor will be fully responsible for the same. The decision of Engineer in charge in such case shall be final and binding on contractor.

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- c) The contractor will follow all safety rules required in connection with execution of such type of works.
 - d) The contractor will have to get his workman insured at his cost.
 - e) The contractor shall make his own arrangement for his residing the supervisor near by the township for execution/interest of work. If available, the BHEL can provide the accommodation at commercial rent (electric charger and water charge extra) as per rule.
 - f) The Workman Compensation Act, its implications, licensing and liabilities of Minimum Wages Act will be entirely the responsibility of the contractor.
 - g) The workers should be trained enough for the work and should be engaged on approval of the engineer -in charge.
 - h) No minor worker will be allowed to work
 - i) The contractor shall be wholly responsible for the behavior of his workers with the office staff and with the residents of the township.
 - j) Contractor will have to ensure that the work places are entirely cleaned
 - k) In case any time contractor fails to arrange the work BHEL will deduct the expenses to make alternate arrangement for the same.
- 3.6. 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 Terms & Conditions of Contract, that is required for all works including temporary works.
 - e) 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.
 - f) Make necessary storage arrangement / sheds of adequate capacity to store cement within his normal scope without any extra cost to BHEL.

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- g) 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**.
- 3.7. BHEL is ISO 9001, ISO 14001 and OHSAS 18001 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.
- 3.8. 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.
- 3.9. BHEL shall provide Field Quality Plan (FQP) after award of work. The FQP shall have to be complied with by the contractor. All necessary tests and mix designs required as per field quality plan shall have to be performed by the contractor through site lab / accredited labs / institute of repute at no extra cost to BHEL. List of tests to be conducted by the contractor shall be
- 3.10. 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 10 (Ten) 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 03 (Three) 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 Terms & 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.

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- 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 in bill of quantities and price schedule under section-IV shall include all taxes and duties (Excluding GST). GST shall be payable extra as applicable.
- 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. INCOME TAX

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.

8. NEW TAXES/ LEVIES

- 8.1. 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.
- 8.2. 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.
- 8.3. 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.

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9. MODALITIES OF TAX INCIDENCE ON BHEL

- 9.1. 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.
- 9.2. 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.

10. RATE SCHEDULE CUM BOQ

- 10.1. 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 amount.
- 10.2. The **Tenderer shall quote the total %above or % below or for entire scope of work** as per the “BOQ & Price Schedule”, **in Annexure PB-II of BOQ & 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.
- 10.3. Quantities mentioned in the Price Schedule 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 finally quoted / accepted Amount.
- 10.4. In addition to the above, the Contractor shall also submit the rates as asked for in the **Annexure: SCC-III.**

11. EVALUATION OF THE OFFERS

- 11.1. Comparison of the prices & determination of lowest bidder shall be as per Price Schedule for the complete scope.
- 11.2. 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
- 11.3. In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers. In case any of such contractor refuses to submit revised offer, then it shall be presumed that the said party is not interested to work & their offer shall not be consider further for deciding L1. If the revised tendered amount of two or more contractors received in revised offer is again found to be equal, the lowest tender among such contractors, shall be decided by draw of lots in presence of finance representative, tendering authority & the lowest contractors those have quoted equal amount of their tenders

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12. VARIATION IN SCOPE OF WORK / DEVIATION LIMIT

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 up to 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.

13. EXTRA WORK

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

14. TERMS OF PAYMENT

- 14.1. 90% payment shall be made to the Contractor through monthly RA bill based on actually executed quantities during the month after verification of the Engineer-in-charge.
- 14.2. Balance 10% amount shall be released after completion of all works along with final Bill.
- 14.3. From the amount payable, recovery such as advances, security deposit, taxes etc. would be made.
- 14.4. 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 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.
- 14.5. The abstract of the measurements and RA bill shall be entered in BHEL Measurement Book and signed and dated by both parties.
- 14.6. All running bill payments shall be regarded as advance payments against the final bill. Any subsequent interim certificates may modify any certificate relating to the work done during monthly running bills 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.
- 14.7. 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.

15. SECURITY DEPOSIT:

Upon acceptance of tender, the successful bidder must deposit the required amount of Security Deposit (SD) after adjusting the amount of Earnest Money duly deposited with the tender, within the time specified in the letter of intent for satisfactory completion of work. The Security deposit shall be required to be submitted as per Clause 16 of GCC.

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16. RELEASE OF SECURITY DEPOSIT:

If the contractor fully performs and completes the work in all respects to the entire satisfaction of BHEL and presents an absolute "No Demand Certificate" in the prescribed form and returns properties belonging to BHEL taken, borrowed or hired by him for carrying out the said works, half the amount of Security Deposit will be released to the contractor after deducting all costs, expenses and other amounts that are to be paid to BHEL under this or other contracts entered into with the Contractor along with the final bill. **Balance half of the amount of Security Deposit will be released only after the Guarantee Period is over.**

17. GUARANTEE

The works constructed by the Contractor shall be guaranteed for a period of **2 (Two) Years** 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.

18. PENALTY FOR DELAY

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 awarded/extended value for every week of delay or part thereof, subjected to a maximum of 10% of the awarded/extended value of without BHEL being required to establish and prove the actual loss /damage suffered by BHEL on account of such delay.

19. FACILITIES TO BE PROVIDED BY BHEL

- 19.1. **In case BHEL provides water to contractor for construction works, Water will be supplied at one point on request of contractor. In such case water charges will be deducted @ Rs 2000/- (lumsun) per month. Adequate water storage facility has to be maintained by the contractor for construction works. These charges shall not be applicable if contractor makes his own arrangements for water**
- 19.2. Any **electric power** required for contractors' lighting/machinery for the purpose of contractor's office or civil work shall be provided by BHEL as per provisions of Clause 47 of GCC.

20. DRAWINGS AND SPECIFICATIONS

- 20.1. Following detailed drawings are enclosed for reference purpose only.
Drg Nos. CS&FP/01 to CS&FP/02.
- 20.2. Specifications of finishing in each type of construction shall be as per the specifications provided in Bill of Quantities & Price schedule (Section IV) to be read in conjunction with Technical Specifications (Section V).
- 20.3. 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.

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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.	PLY SHUTTERING BOARD AND MS SHUTTERINGS	AS PER REQUIREMENT
4.	15/20 MT TRAILORS WITH PULLING UNIT TRACTOR -TRAILORS	AS PER REQUIREMENT
5.	TIPPERS FOR DUMPING MATERIAL	AS PER REQUIREMENT
6.	HYDRAULIC EXCAVATORS	AS PER REQUIREMENT
7.	DIESEL / VIBRATORY ROAD ROLLER – 8 TO 10 TONNE	AS PER REQUIREMENT

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.

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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	AUTO LEVEL AND STAFF	2 NO
2	DUMPY LEVEL UPTO 350 MM	AS PER REQUIREMENT
3	CONSTRUCTION MATERIAL TEST EQUIPMENT	AS PER REQUIREMENT
4	CONCRETE CUBE MOULD (150 X 150 X 150) mm	6 NOS
5	CONCRETE slump cone WITH TAMPING ROD	1 SET
6	COARSE AGGREGATE SIEVES & SAND SIEVER	1 SET
7	MOISTURE CONTAINER (STEEL/ ALUMINIUM)	5 NO
8	CORE CUTTER TEST APPARATUS	1 SET

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).

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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

Signature Bidder

Signature BHEL



**Tender for Construction of Road, Drain and Misc.
Works at CS & FP, BHEL Jagdishpur**

Tender Enquiry No: BHE/CS&FP/CVL/17-18/08

BOQ & Un-Priced Bid

This Document shall also consists of following sections: -

- **Annexure PB – I**
- **Annexure PB – II**

BHARAT HEAVY ELECTRICALS LIMITED

(A GOVERNMENT OF INDIA UNDERTAKING)

CS & FP Industrial Area,

Jagdishpur, Amethi (UP) 227817

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Centralised Stamping & Fabrication Plant (CS & FP), BHEL Jagdishpur
Name of Work : Construction of Road, Drain and Misc. Works at CS & FP BHEL Jagdishpur

Annexure PB - I
Bill of Quantities & Price Schedule

S.No.	DESCRIPTION OF WORK	UNIT	Total Qty	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer -in-charge.	Cum	2679.50	125.95	337483.03
2	Earthwork in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plain) including dressing of sides and ramming of bottom, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m. All kinds of soil	Cum	1021.50	166.40	169977.60
3	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Sqm	5811.00	90.10	523571.10
4	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	Cum	1744.00	10.70	18660.80
5	Supplying and filling in plinth with sand including watering, raming consilidating, dressing complete.	Cum	944.50	917.75	866814.88
6	Providing and laying in position cement concrete of specified grade including the cost of centring and shuttering - All work up to plinth level 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40 mm nominal size).	Cum	166.50	4478.15	745611.98
7	Providing 90 mm to 45 mm size stone aggregate along with Stone screening 13.2 mm nominal size (Type A) with Laying, spreading and compacting stone aggregate of specified sizesto WBM specifications in uniform thickness, hand picking, rollingwith 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming ,interstices of coarse aggregate, watering and compacting to the required density.as per direction by engineer in charge.	Cum	872.00	2206.72	1924259.84
8	63 mm to 45 mm size stone aggregate along with Stone screening 11.2 mm nominal size (Type B) with Laying, spreading and compacting stone aggregate of specified sizesto WBM specifications in uniform thickness, hand picking, rollingwith 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming ,interstices of coarse aggregate, watering and compacting to the required density.as per direction by engineer in charge.	Cum	581.00	2190.81	1272860.61



Centralised Stamping & Fabrication Plant (CS & FP), BHEL Jagdishpur
Name of Work : Construction of Road, Drain and Misc. Works at CS & FP BHEL Jagdishpur

Annexure PB - I
Bill of Quantities & Price Schedule

S.No.	DESCRIPTION OF WORK	UNIT	Total Qty	Rate	Amount
9	53 mm to 22.5 mm size stone aggregate along with Stone screening 11.2 mm nominal size (Type B) with Laying, spreading and compacting stone aggregate of specified size to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming, interstices of coarse aggregate, watering and compacting to the required density as per direction by engineer in charge.	Cum	436.00	2283.76	995719.36
10	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. @ 0.75 Kg per sqm	Sqm	5586.00	36.40	203330.40
11	Providing and laying Dense Graded 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 aver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge. 60 mm average compacted thickness with bitumen of grade VG-30 @5% (percentage by weight of total mix) and lime filler @ 2 % (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity	Cum	335.50	7140.45	2395620.98
12	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 bituminous surface @ 0.50 Kg per sqm	Sqm	5586.00	27.50	153615.00
13	Providing and laying Bituminous concrete 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 equipped with electronic 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 specification, complete and as per directions of Engineer-in-Charge. 40 mm compacted thickness with bitumen of grade VG-30@5.5% (percentage by weight of total mix) and lime filler @3% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	Cum	223.50	7754.35	1733097.23
14	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.	Sqm	1800.00	13.95	25110.00



Centralised Stamping & Fabrication Plant (CS & FP), BHEL Jagdishpur
Name of Work : Construction of Road, Drain and Misc. Works at CS & FP BHEL Jagdishpur

Annexure PB - I
Bill of Quantities & Price Schedule

S.No.	DESCRIPTION OF WORK	UNIT	Total Qty	Rate	Amount
15	Supplying and stacking of good earth with at site [including royalty and carriage upto site] (good earth measured in stacked will be reduced by 20% for payment.)	Cum	600.00	332.55	199530.00
16	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	600.00	125.75	75450.00
17	Providing and laying non-pressure NP2 class (light duty) 600 mm dia R.C.C. Pipes 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	Meter	748.00	1397.10	1045030.80
18	Providing and laying non-pressure NP-3 class (Medium duty) 300 mm dia R.C.C. Pipes 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	Meter	125.00	1296.00	162000.00
19	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, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	3740.00	615.70	2302718.00
20	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective 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, rivets or bolts & nuts @ 300 mm 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 or 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). Overhead informatory road signage.	Sqm	9.00	4722.20	42499.80

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Bill of Quantities & Price Schedule

S.No.	DESCRIPTION OF WORK	UNIT	Total Qty	Rate	Amount
21	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete 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 except 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 C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	135.00	5012.65	676707.75
22	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	Sqm	55.50	1907.95	105891.23
23	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	52.00	4751.65	247085.80
24	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall	Sqm	187.00	265.95	49732.65
25	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres : with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	1496.00	36.20	54155.20
26	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	20.00	4043.10	80862.00
27	Providing and laying in position 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size) of reinforced cement concrete, including the cost of centering , shuttering, finishing and reinforcement - All work up to plinth level	Cum	47.00	6215.35	292121.45

Signature BHEL

Signature Bidder



Centralised Stamping & Fabrication Plant (CS & FP), BHEL Jagdishpur
Name of Work : Construction of Road, Drain and Misc. Works at CS & FP BHEL Jagdishpur

Annexure PB - I
Bill of Quantities & Price Schedule

S.No.	DESCRIPTION OF WORK	UNIT	Total Qty	Rate	Amount
28	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level with Thermo-Mechanically Treated bars of grade Fe-500D or more	Kg	3654.00	56.60	206816.40
29	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	56.00	5582.85	312639.60
30	12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)	Sqm	240.00	180.85	43404.00
31	Finishing walls with Acrylic Smooth exterior paint of required shade on New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	240.00	96.05	23052.00
32	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), 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 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	263.00	744.80	195882.40
33	Total Amount (Excluding GST) in Rs				174,81,312.00
Note : i). GST Payable extra as applicable					
ii). Bidder to quote in Annexure PB-II '% above' or '% below' or 'At par' over sl. no. 33 above i.e. Total Amount (Excluding GST)					



Centralised Stamping & Fabrication Plant (CS & FP), BHEL Jagdishpur

Name of Work : Construction of Road, Drain and Misc. Works at CS&FP BHEL Jagdishpur

Annexure PB - II

Summary of Price Schedule

Percentage (%) to be quoted by bidder over Total Estimated Amount by BHEL (Excluding GST) i.e. sl.no.33 of Annexure PB-I

	% Above	% Below	At par
% Quoted by the Contractor (in Figures) :			
% Quoted by the Contractor (in Words) :			

Note:

- 1 Total price of the package to be quoted by the bidders which shall form the basis of comparison for deciding lowest bid.
- 2 In case of any discrepancy between 'Total Quoted % (in Figures)' and 'Total Quoted % (in Words)', lower of the two 'percentage (%)' shall be considered for evaluation purpose
- 3 For further processing & award total quoted Amount for the package by the L1 (lowest) bidder shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at BOQ & Price Schedule (Annexure PB-I).

- 4 In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers. In case any of such contractor refuses to submit revised offer, then it shall be presumed that the said party is not interested to work & their offer shall not be consider further for deciding L1. If the revised tendered amount of two or more contractors received in revised offer is again found to be equal, the lowest tender among such contractors, shall be decided by draw of lots in presence of finance representative, tendering authority & the lowest contractors those have quoted equal amount of their tenders

- 5 GST Payable extra as applicable

Signature BHEL

Signature & Seal of Bidder