



KORBA MUNICIPAL CORPORATION

CONSTRUCTION, TESTING, COMMISSIONING OF R.C.C. OHT, PIPE LINE, BOUNDARY WALL AND SWITCH ROOM AT WARD NO. 25 SHIVAJI NAGAR FOR AUGMENTATION TO KORBA WATER SUPPLY SCHEME WITH 03 MONTHS TRIAL RUN

TENDER DOCUMENTS

**Form "F"
(Lump-sum Contract)**

**E-Procurement Tender Notice
Portal: <http://eproc.cgstate.gov.in>**

(PAC Rs. 161.50 Lacs)

COST OF TENDER DOCUMENT & BID PROCESSING FEE – Rs. 3,000.00

**OFFICE OF THE COMMISSIONER
MUNICIPAL CORPORATION, KORBA
CHHATTISGARH**

**Web site: www.KorbaMunicipal.in
E-mail: corporationkorba@gmail.com**

**OFFICE OF THE MUNICIPAL CORPORATION,
KORBA, CHATTISGARH
DETAILED NOTICE INVITING TENDER**

SYSTEM TENDER NO/199182/NIT NO: 1542

Dated 10.09.2026

Commissioner, Municipal Corporation Korba invites online Tenders on behalf of Municipal Corporation Korba on Form "F" for respective applicable Schedule of Rates from eligible class registered contractors in "unified Registration system e-Registration" PWD Chhattisgarh on Govt. of C.G. e-Procurement System (<http://eproc.cgstate.gov.in>)

1	System Tender No.	199182
2	Name of Work/Description of Work	Construction, Testing, Commissioning of R.C.C. OHT, Pipe Line, Boundary Wall and Switch Room at Ward No. 25 Shivaji Nagar for Augmentation to Korba Water Supply Scheme with 03 Months Trial Run. 1. OHT's Cap- 1500 KL & St. Ht. 18 mtr at Shivaji Nagar. 2. Clear water gravity main & interconnection to Distribution of 350 mm dia & 300 mm dia. Length 200 mtr. from tapping point to OHT 3. Construction of Boundary Wall (Length 80 m) around Shivaji Nagar OHT. 4. Construction of Switch Room (Size 4m x 4m x 3.5) at Shivaji Nagar OHT. (15th Finance Commission/02.07.26)
3	Probable Amount of contract	Rs. 161.50 Lakhs
4	Earnest Money Deposit	Rs. 1,22,000/- (in shape of FDR/TDR in favor of Commissioner, Municipal Corporation, Korba)
5	Cost of Tender form fees	Rs. 3000/- (In shape of Demand Draft in favor of Commissioner, Municipal Corporation, Korba)
6	Eligible class of contractor / firm	Class- C and Above
7	Time allowed for Completion	12 Months (Including rainy season) Excluding 03 months trial run
8	SOR Applicable (All amendments issued from time to time shall applicable)	CGPHE USOR 01.06.2020 CGPWD Building SOR 2015 CG PWD Electrical SOR 2020

9	Financial Capacity (as per clause 3.8.1)	₹ 24.23 Lakhs valid Bank solvency certificate is to be attached along with the bid.
10	Validity of Offer	120 Days from the day of submission of financial offer

1. In order to participate in the tenders floated using the e-Procurement System, all contractors/bidders are required to get enrolled on the e-Procurement portal <http://eproc.cgstate.gov.in>.
2. The bids submitted online should be signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. The registered contractors may obtain information required to issuance of Digital Certificate from e-Procurement System M Junction Raipur.
3. For submitting the bids online, the contractors/bidders are required to make online payment using the electronic payments gateway service Bid Hash Submission Fee as mentioned above the different modes of electronic payments accepted on the e-Procurement System is available and can be viewed online on the e-Procurement Website (<http://eproc.cgstate.gov.in>).
4. Tender Download, Submit Bid Hash online, Submission of Bids and other Documents and other activities will be governed by the time schedules given under – key Dates. Also, Bidder has to submit all the mandatory/required documents, if the mandatory/required documents not submitted by bidder then bid will be disqualified without any further clarification & Joint Venture /Consortium is not allowed.
5. Any bidder/contractor, who is debarred, blacklisted, banned or suspended by the Central Government, State Government, Public Sector Undertaking (PSU), Urban Local Body (ULB), or any Government Department as on the last date of bid submission shall not be eligible to participate in this bid. During the evaluation stage if it comes under the notice that the bidder hides crucial information related to his eligibility than the firm is disqualified and their financial bid shall not be opened.
6. The Bidders has to submit (Upload Scan Copies/fill) his offer/credentials online as required in the tender in the online templates in relevant envelopes.
7. The Bidders may refer Help Manual available online to perform their online activity. The Commissioner, Municipal Corporation Korba (CG) reserves the right to reject any part of/whole tender without assigning any reason and to restrict the list of pre-qualified tenderer to any number deemed fit by it.
8. Before the deadline for submission of tender the Commissioner, Municipal Corporation, Korba (C.G.) may modify the tender document by issuing amendment. (Any amendment thus issued shall be part of the tender and shall be published on web site)
9. Tenderers are required to submit all documents/information with the technical tender as required in the NIT or elsewhere in the Tender Document; otherwise it shall lead to rejection of bids.
10. **As per Circular No. GENCOR-35/306/2026-UAD Dated 20.05.2026 issued by the Urban Administration & Development Department, Government of Chhattisgarh, the BOQ/PAC has been prepared excluding GST. Accordingly, bidders shall quote their rates excluding GST only.**

Applicable GST shall be paid separately by the Municipal Corporation, Korba, subject to submission of a valid GST Tax Invoice and compliance with the provisions of the GST Act, Rules and Government instructions in force.

11. The bidder shall quote the tender as a Lump Sum offer as per the **"Form F"** is required to be submitted/uploaded online only in Envelope C on Bidder's and physical submission of Envelope C shall not be considered.
12. The bidders are required to submit 'Envelope "A"- and 'Envelope "B"- as desired in physical and online respectively referring to the key dates as mentioned. The Physical Envelope should contain the following: -
 - A. Envelope 'A'** (Key Submission - Submit physically & online) - All the required document submission is mandatory for opening of technical bid.
 - i. The Earnest Money Deposit (EMD) in the form of FDR/TDR of a Nationalized or Scheduled bank of India in favour of the Commissioner, Municipal Corporation, Korba payable at District - Korba (CG). The Earnest Money of the successful Bidders will be retained as part of the security deposit.
 - ii. Tender Document Fee (In the shape of demand draft in favour of Commissioner, Municipal Corporation, Korba)
 - iii. Notarized Affidavit and Pre Contract Integrity Pact separately in Original as per prescribed format. (On ₹100/- non-judicial stamp paper each)
 - B. Envelope- 'B'** (Technical Bid - Submit online only): -
 - i. The bidder mandatorily submits all relevant documents that demonstrate their eligibility and qualification as per the criteria outlined in the tender document. Incomplete or missing documents will result in automatic disqualification during the technical evaluation stage.
 - ii. Scanned copy of the Earnest Money, Tender Document Fee and Affidavit.
 - iii. Valid Registration Certificates. CG PWD and (Partnership Deed, registration amendment certificate as the case may be)
 - iv. Copy of PAN card issued by Income Tax Department.
 - v. Copy of Valid GST/ CGST Registration must be valid up to Bid due date as per key dates otherwise tender will be disqualified while opening.
 - vi. Valid Bank Solvency Certificate in Bank Letter Head. (Not older than 12 Months) mention the Bank Dispatch No. or Ref. No. or Verifiable unique number or Date otherwise tender will be disqualified while opening) The bank solvency shall be submitted by the contractor 15% on the cost put to tender.
 - vii. If the participating bidder is partnership firm than the memorandum of partnership of the firm.
 - viii. Income Tax Return acknowledgment of last three assessed financial years available as on bid due date.
 - ix. Documentary proof of the appointment of the engineer including appointment letter duly signed by the authorized signatory with date of appointment, along with the relevant educational qualification certificates and photo identity proof.
 - x. Registration certificate of EPF supported with Form 5A and ESIC. Last three months relevant payment receipt/challan copies of the dues subjected to the payments of EPF and ESIC is mandatorily needed to be enclosed.

- xi. The bidders should have experience of successfully executed/completed construction, testing and commissioning of following works within last five financial years: -
- a) Experience of providing, laying, jointing, testing and successful completion of the highest diameter of DI pipe line (350 mm Dia. of 50 mtr. Length) and DI/MS/CI pipelines for a minimum 50% of the total length of its quantity mentioned in the NIT in a Single Contract or multiple contracts. (required quantity 100 mtr)
 - b) Design & Construction of at least one Overhead Tank of capacity not less than 50% of the highest capacity of OHT (i.e. 750 KL) & minimum staging height of 12 mtr mentioned in the NIT in a single contract.

Note: - The bidder shall mandatorily enclose the relevant experience certificate as required under the aforementioned points. The experience certificate shall be issued by an officer not below the rank of Executive Engineer and shall pertain only to works executed for Central Government, State Government or Urban Local Bodies (ULBs).

Envelope- "C" - (Financial Bid - Submit Online Only)

If the bidder quotes his rates in physical submissions than it will lead to disqualification during evaluation of the bid.

13. Physical Submission - The sealed envelope A should be sent by registered A.D. or speed post to **Office of the Commissioner, Municipal Corporation, Saket Bhawan, ITI Rampur Chowk, Kosabadi, Pin-495677 Korba (C.G.)** before expiry of physical submission of the bid. (Please mention the Name of Work, N.I.T. No. in Physical Envelope)
14. Required documents of qualified tenderer shall be opened online on the prescribed date and time as per Notice Inviting Tender. After verification of proper and other required documents financial offers of such qualified bidders shall be opened online by the Commissioner, Municipal Corporation, Korba (C.G.) in the presence of the tenderer (s)/ representative who choose to attend at that time.
15. Additional performance shall be deposited by the successful bidder at the time of signing of agreement when the bid amount is seriously unbalanced. i.e. less than the estimated cost by more than 10% in such an event the successful bidder will deposit the additional performance security to the extent of differential cost of bid amount and 90% of the estimated cost in shape of Bank guarantee of Nationalized Bank in favor of Commissioner, Municipal Corporation, Korba (C.G.) in Additional to EMD failing which the tender in this favor shall be liable for Rejection. The same shall be released along with the normal Security Deposit.
16. It is mandatory for bidder to submit all mandatory/required documents in online in website <http://eproc.cgstate.gov.in>. Any documents which are not submitted in online but submitted physically will not be accepted.
17. Bidder has to submit all the mandatory/required documents, if the mandatory/required documents not submitted by bidder then bid will be disqualified without any further clarification.
18. If any document as required is not received as per the desired form, then the Bidder will be disqualified without any further clarification and his financial bid will not be opened.

19. The provision of Clause 11 regarding price escalation shall not be applicable under this contract. No escalation or increase in the contract price will be paid for any reason, including fluctuations in material costs, labor wages, or any other inputs, during the entire duration of the project.
20. In case of any discrepancy, ambiguity or dispute related to the interpretation of the term and condition of the tender documents, the decision of the Commissioner, Municipal Corporation Korba, shall be final and binding on all parties involved.
21. After the issuance of the work order, the successful bidder must mandatorily comply with the all- applicable rules and regulations of relevant government departments, including but not limited to those related to mining labor laws, income tax, Goods and Service tax (GST), other statutory obligations. The bidder will be solely responsible for adhering to these regulations throughout duration of the project.
22. The successful bidder shall mandatorily register himself under the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. Proof of such registration shall be submitted for processing of running and final bills. Further, labour cess at the rate of 1% shall be deducted from each running and final bill as applicable.
23. The evaluation of bids shall be carried out by considering the lowest aggregate amount. The bidder quoting the lowest rate shall be considered as the Lowest Bidder (L1).
24. Security deposit at the rate of 5% shall be deducted from each running and final bill and shall be refunded to the contractor after completion of the security period of one year, reckoned from the date of completion of work, subject to certification that the work is in good condition.
25. The contractor shall also be responsible for performance of work carried out by him for a period of 36 (Thirty-Six) Month beyond the completion of work for which performance security has to be furnished by him @ 5% (five percent) of amount of contract. For this purpose, contractor has to submit to the department a Bank Guarantee of 5% amount of the value of work done on every running and final bill payable to him. If contractor fails to submit bank guarantee of 5% amount of the gross bill, then 5% amount of bill shall be deducted from his running and final bill payment. However, the contractor can get refund of such performance cash security amount deducted if he submits appropriate bank guarantee valid for the period as stated above or 36 (Thirty-Six) Month after actual completion.
26. If the successful contractor fails to execute the agreement within the stipulated time period prescribed in the tender document, action shall be taken as per the provisions contained in the tender conditions. In addition, thereto, as per the resolution passed by the Municipal Council of Municipal Corporation Korba, the contractor shall also be liable to be debarred from participating in any future tenders invited by the Municipal Corporation Korba for a period of 06 (six) months.”
27. If the contractor fails to complete the work within the stipulated time period after issuance of the work order, action shall be taken against the contractor as per the terms and conditions of the agreement. In addition thereto, as per the resolution passed by the Municipal Council of Municipal Corporation Korba, the contractor shall also be liable to be debarred from participating in any future tenders invited by the Municipal Corporation Korba for a period of 01 (one) year.”
28. All ductile iron pipes shall be inspected and tested through third-party inspection agencies such as SGS/DGSD/RITES/IRCLASS or equivalent, at the contractor's cost, and only pipes conforming to

relevant IS standards shall be accepted; non-conforming materials shall be rejected at the contractor's risk and cost without any claim. Payments due towards the contractor will be processed only after submission of the relevant test certificates and inspection reports.

29. Upon issuance of the work order, the successful bidder shall comply with all provisions of the Construction and Demolition Waste Management Rules, 2016.
30. After the award of the work order, the successful bidder must obtain approval for R.C.C. OHT drawings and designs from the National Institute of Technology (NIT)/Govt. Engg. College before commencing any work. All the charges borne by the contractor. No work shall begin until the designs and drawings have been thoroughly reviewed and formally approved.


Superintending Engineer
Municipal Corporation
Korba (C.G.)

Copy to: Programmer, UADD Nava Raipur for information Please.

Construction, Testing, Commissioning of R.C.C. OHT at ward no.25 Shivaji Nagar with 03 months trial run

SYSTEM TENDER No. 199182

NIT No./1542

Korba Dated 10.09.2026

Table 1: Key Dates

<u>Task</u>	<u>Date</u>	<u>Time</u>
Bid Start Date	10.09.2026	17:31
Bid Due Date	30.09.2026	17:30
Physical Documents Submission End Date	06.10.2026	16:30
Bid Open Date (Scheduled)	06.10.2026	17:00


Superintending Engineer
Municipal Corporation,
Korba (C.G.)

Augmantation to Korba Water Supply Scheme

Sub Estimate - 01

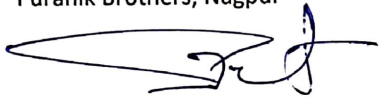
Work:- Designing & Construction of Shivaji Nagar ESR, Cap- 1500 KL, St. ht. 18 mtr

Particulars	Rate	Amount
Designing (structurally & aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically as per staging of the ESR. including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling & disposing off the surplus stuff within a lead of 50 meters, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, scour, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as Aluminum Ladder, C.I. manhole frame and covers water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing RCC staircase from ground level to balcony level along with columns and from balcony level roof top level grill gate of 2 mtr. height with locking arrangement of approved design RCC chambers for all valves, ventilating shafts, providing and applying three coats of weather coat paints to the structure including roof slab epoxy painting to internal surface & anti termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code, The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge. CGPHE SOR 2020; Amendment 07/2022-23; Item no. 23.26, Page no. 97		

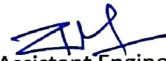
Nagar OHT 1500 KL/ 18 M STAGING Height		
1500 KL RCC OHT, 12 m Staging height	1500 KL RCC OHT	11178616.00
Add for Additional height upto 18 Mtr (i.e. 6 mtr.)		
More than 12 m to 15 m staging - 2% per metre	6%	670716.96
More than 15 m to 18 m staging - 3% per metre	9%	1006075.44
Add 5% SBC is more than 10 t/sqm and upto 15 t/sqm	5%	558930.80
Total =		13414339.20
Grand Total		Rs. = 13414339.20
Add 18 % GST =		2414581.06
		15828920.26
Cost in Lacs		158.29

Prepared By :-

Puranik Brothers, Nagpur



Sub Engineer
Korba Municipal Corporation
Korba (C.G)



Assistant Engineer
Korba Municipal Corporation
Korba (C.G)

Korba Municipal Corporation

Sub Estimate - 02

Work:- Providing, lowering, laying, jointing, testing and commissioning of
DI K-7 Gravity main and Distribution network

Meter	PARTICULARS				QTY	RATE	Unit	AMOUNT
	Type	Length	Width	Depth	Qty upto 1.5	Qty beyond 1.5		
300	DI K-7	100	0.90	1.30	130.50	Gravity Main		
350	DI K-7	100	0.95	1.40	142.50	Distribution Network		
TOTAL / AVG.		200.00	0.93	1.35	273.00			
Total Quantity								
Total Quantity of Excavation					273.00			
Soft soil						30%		
Hard soil						25%		
Soft rock						25%		
Hard rock						20%		
1	Excavation: Earth work in excavation for pipe trench in ordinary soil areas including dressing, watering, ramming and disposal of excavated earth lead up to 50m and lift up to 1.5m, disposal earth to be levelled, neatly dressed.							
	81.90 (CG PHE Ammendment 7, 2022-23 18.15/51)				81.90	201.00	cum	16462.00
2	Earth work in excavation for pipe trench in Hard soil areas including dressing, watering, ramming and disposal of excavated earth lead up to 50m and lift up to 1.5m, disposal earth to be levelled, neatly dressed.							
	68.25 (CG PHE Ammendment 7, 2022-23, I.N.18.16/P-51)				68.25	266.00	cum	18155.00
3	Earth work in excavation for pipe trench in all kinds of rocks in areas including dressing, stacking of useful material and disposal of unservicveable material up to lead up to 50m and lift up to 1.5m.							
	Soft rock with or without blasting or 68.25 (CG PHE Ammendment 7, 2022-23, I.N.18.19.1/P-51)				68.25	465.00	cum	31736.00
4	Earth work in excavation for pipe trench in all Hard rock requiring chiseling / where blasting is prohibited.							
	54.60				54.60	664.00	cum	36254.00
5	Demolishing cement concrete manually / bymechanical means including disposal of material within 50 m lead as per direction of engineer-in-charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)							

	PARTICULARS	QTY	RATE	Unit	AMOUNT
	CG PHE Ammendment 7, 2022-23 , 18.29.1/P-52) Considering 25% Road Cutting 300 25.00 350 25.00 200.00 0.93 0.3	55.50	945.00	cum	52448.00
6	Pumping out water caused by springs, tides or river seepage, broken water mains or drains or well or the like. (CG PHE Ammendment 7, 2022-23 18.21/52)	300	71.00	KL	21300.00
7	Providing, laying and jointing including testing following socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K7) conforming to IS: 8329/ 2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/2018 300 mm dia 100 m 350 mm dia 100 m Adding 10% (CG PHE Ammendment 7, 2022-23 4.1/4.2)	100.00 100.00	3774 4718	Mtr Mtr	377400.00 471800.00 84920.00
8	Providing and Laying including testing Ductile Iron Double Socket 90° Bends conforming to IS: 9523/2000 having dimension as per table 15 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (CG PHE SOR_2020 4.13/7) 300 350	2 1	8439.00 14350.00	Each Each	16878.00 14350.00
9	Providing and Laying including testing Ductile Iron Double Socket 45° Bends conforming to IS: 9523/2000 having dimension as per table 15 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (CG PHE Ammendment 7, 2022-23 4.15/8) (CG PHE SOR_2020 4.13/7) 300 mm dia 350 mm dia	3 1	6361.00 10722.00	Each Each	19083.00 10722.00
10	Providing and Laying including testing Ductile Iron Double Socket 22.5° Bends conforming to IS: 9523/2000 having dimension as per table 15 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (CG PHE SOR_2020 4.17/8) 300 350	3 2	5322.00 8578.00	No. No.	15966.00 17156.00

	PARTICULARS	QTY	RATE	Unit	AMOUNT
	ing and Laying including testing Ductile Double Socket 11.25° Bends conforming IS: 9523/2000 having dimension as per table 15 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (CG PHE Ammendment 7, 2022-23 4.19/9) 300 mm dia 350 mm dia	1 1	4804.00 7587.00		4804.00 7587.00
12	Providing & fixing following ductile iron single chamber triple function temper proof air valves, small orifice with screwed end as per IS : 14845-2000 including jointing & testing with cost of jointing material and rubber insertion all complete as per IS :13095-1991 (CG PHE Ammendment 7, 2022-23 4.50/21) 80 mm diameter (PN 1.6)	1	8145.00	No.	8145.00
13	Providing & fixing of following Ductile iron double flanged sluice valves as per I.S.:14846-2000 fitted with cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. (CG PHE Ammendment 7, 2022-23 4.41/18) Sluice Valve & Scour Valve 80 mm diameter PN-16 300 mm dia PN-16 350 mm dia PN-16	1 1 1	8622.00 68739.00 107902.00	No. No. No.	8622.00 68739.00 107902.00
14	Providing and Laying including testing ductile iron PN 16 type flanged sockets conforming to IS: 9523/2000 having dimension as per table 23 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS:9523/2000. (CG PHE Ammendment 7, 2022-23 4.7/4) Flange Socket Tail piece 300 mm dia PN-16 350 mm dia PN-16	2 2	5298.00 8239.00	No. No.	10596.00 16478.00
15	Providing and Laying including testing Ductile Iron Double Socket branch flange Tee conforming to IS:9523/2000 having dimension as per table 21 of IS:9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS:9523/2000. 350X350X200 350X350X100 (CG PHE Ammendment 7, 2022-23 4.23/11)	1.00 1.00	12872.00 10298.00	Each Each	12872.00 10298.00

	PARTICULARS	QTY	RATE	Unit	AMOUNT
	Providing and Laying including testing Ductile Iron All Socket conforming to IS:9523/2000 having dimension as per table 21 of IS:9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining				
	300X300X200	2.00	8049.00	Each	16098.00
	200X200X150	2.00	4532.00	Each	9064.00
	200X200X100	2.00	3895.00	Each	7790.00
	150X150X150	2.00	3116.00	Each	6232.00
	150X150X100	2.00	2726.00	Each	5452.00
	(CG PHE Ammendment 7, 2022-23 4.22/10)				
17	Providing and Laying including testing Ductile iron Mechanical joint collar with follower glands conforming to IS: 9523/2000 having dimension as per table 24 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen and internal cement mortar lining.(Including Labour Charges) (CG PHE Ammendment 7, 2022-23 4.11&4.12/6)				
	300	2	8901.00	Each	17802.00
	350	2	14142.00	Each	28284.00
18	Providing & laying mechanically mixed R.C.C. excluding centering & shuttering and reinforcement in foundation/plinth (20mm graded metal)				
	4 5 0.9 0.6	10.8			
	Deduction of pipe volume = (2x5x0.785x0.35x0.35)	-1.92			
	Total	8.88	6025.00	Cum	53482.42
	(CG PHE Ammendment 7, 2022-23 18.42.1/54) In plinth and foundation, M-20 for thrust				
19	Providing & laying mechanically mixed cement concrete 20mm nominal size graded crushed stone excluding cost of centering & shuttering.				
	Reinstating the Road Surface of broken C.C Roads in Allignment 1 : 1.5: 3 (M-20) (CG PHE Ammendment 7, 2022-23, I.N.18.41.1.3/P-54)				
	100.00 1.00 0.20	20.00	5248	Cum	104960
20	Providing and placing in position cold twisted steel and hot rolled deformed steel reinforcement for R.C.C. work i/c cutting, bending, binding etc. complete i/ccost of binding wire and wastage. (CG PHE Ammendment 7, 2022-23 18.44/54)	710.14	70.00	Kg	49709.80

	PARTICULARS	QTY	RATE	Unit	AMOUNT
	ing & fixing form work i/c centering and ering including strutting, propping etc. d removal of form work for: Foundation , footing, bases of columns ,etc for mass concrete 100.00 0.2 sqm (CG PHE Ammendment 7, 2022-23 18.64.1/56)	20.00	231.00	Sqm	4620.00
22	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20cm. In depth including consolidation of each layer by ramming watering, lead up to 50m and lift up to 1.5m in all kinds of soils (CG PHE Ammendment 7, 2022-23 18.22/52) Available excavated earth Deduct	273.00			
	Volume of pipe Sand filling from outside Thrust block Road Reinstating Total Refilling	-16.68 -6.94 -8.88 -20.00 220.50			
			62.00	Cum	13671.00
23	Supply & Filling moorum/river sand for pipe bedding or over the pipe (including supply) 50 x 0.15 x 0.925 (CG PHE Ammendment 7, 2022-23 18.24/52)	7	864.00	Cum	5994.00
24	Construction of RCC Valve chamber with RCC precast Cover As per Rate Analysis Chamber 1.5 x 1.5 , Internal diameter 350 mm dia As Per Rate Analysis	2.00	41515.00	Each	83030.00

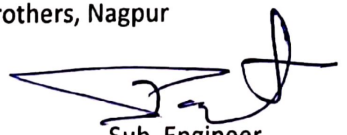
Total Before GST 1866862.22

Add 18% GST 336035.20

Total 2202897.42

Say 22.03
Lacs

Prepared By :-
Puranik Brothers, Nagpur


Sub Engineer
Korba Municipal Corporation
Korba (C.G)


Assistant Engineer
Korba Municipal Corporation

Korba Municipal Corporation

Sub Estimate - 03

Construction of Boundary wall around ESR

Items	Nos.	L	B	H/D	Qty.	Unit	Rate	Amount
Foundation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soils. (PWD SOR 2015, It. No.1.1.1, P. No.9)								
For Column Foundation	2	0.90	0.90	1.20	1.94			
For B/W Base Upto Plinth Level Remaining	1	1.90	0.50	0.40	0.38			
				Total	2.32	Cum	185.00	429.94
2 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. (PWD SOR 2015, It. No.1.18, P.No.11)								
For Column Foundation	2	0.90	0.90	0.10	0.16			
For B/W Base Upto Plinth Level Remaining	1	2.60	0.50	0.10	0.13			
				Total	0.29	Cum	371.00	108.33
3 Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). (PWD SOR 2015, It. No. 3.1.3, P.No. 23)								
For Column Foundation	2	0.90	0.90	0.10	0.16			
For B/W Base Upto Plinth Level Remaining	1	2.60	0.50	0.10	0.13			
				Total	0.29	Cum	2970.0	867.24
4 Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: Cold twisted bar / Hot rolled deformed steel (PWD SOR 2015, It. No. 3.12.4, P.No. 24)								
For, Column Foundation Base 10mm		2x(2x2x9x1.10 = 79.20 x .62 =			49.10			
For, Column Reinforcement 4 Nos. 12mm dia.		2x4x3.30 = 26.4x.89 =			23.50			
For, Column Stirrups 6mm dia. @ 150mm c/c		2x18x0.90 = 32.40x.395 =			12.80			
For, Plinth Beam 4 Nos. 10mm dia.		4x3.00 = 12x.62 =			7.44			
In Plinth Beam 2 Nos. Bentup Bar 10mm Dia.		2x3.20 = 6.40x.62 =			3.97			
stirrups For Plinth Beam 8mm dia. @ 150mm c/c		18x.90 = 16.20x.395 =			6.40			
				Total	103.21	kg	53.50	5521.68
5 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level. (PWD SOR 2015, It. No. 2.1.1, P. No.16)								

Items	Nos.	L	B	H/D	Qty.	Unit	Rate	Amount
Column Foundation Base CC Sides	2x4	0.90		0.20	1.44			
In Column Trapezoidal Portion	2x4		$0.60+0.40/2=0.50$	0.60	2.40			
In Column Over Plinth Beam	2x4		0.20	1.60	2.56			
For, Plinth Beam	1x2	3.00		0.20	1.20			
For, Coupling over Wall	1x2	3.00		0.05	0.30			
				Total	7.90	Sqm	139.00	1098.10
Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). (PWD SOR 2015 It. No.3.2.1. P. No.23)								
In Column Foundation Base C.C	2	0.90	0.90	0.20	0.32			
In Column Trapezoidal Portion C.C	2		$0.60/6(0.60 \times 0.60 + 0.40 \times 0.40 + 4 \times 0.50 \times 0.50)$		0.30			
In Plinth Beam	1	2.60	0.20	0.20	0.10			
For Column	2	0.20	0.20	2.00	0.16			
For Coupling	1	3.00	0.20	0.05	0.03			
				Total	0.92	Cum	4163.0	3838.29
7 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand) (PWD SOR 2015, It. No.7.5.4, P.No. 45)								
Between Column	1	2.60	0.20	1.60	0.83			
For B/W Up To Plinth Level	1	2.60	0.20	0.20	0.10			
				Total	0.94	Cum	3263.0	3054.17
8 Providing and making 6mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand) (PWD SOR 2015, It. No.11.2.4, P.No.103)								
Between Column	1x2	2.60		1.60	8.32	Sqm	91.50	761.28
9 Colour washing such as green, blue or buff with lime to give an even shade. On new work (two or more coats) including a base coat of white washing (PWD SOR 2015, It. No.14.7.1, P.No.132)								
For Wall Section	1x2	3.00		1.85	11.10	Sqm	12.00	133.20
				Total				15812.23
For 3 Mtr. Boundary Wall Cost is Rs. 15812 Hence, 1 Mtr. Boundary Wall Cost is Rs. 5271.								
Length 80.00 Mtrs. Boundary Wall Cost is Rs. 5271 x 120.00							Total =	632520.00
10 Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works. (PWD SOR 2015, It. No.9.6.2, P. No.103)								
For Main Gate Size (2.50 x 2.40 Mtr) 1 Nos					Lump Sump 175 kg	Kg	68.00	11900.00
Wicket gate (1X2.4Mtr) 1 Nos					Lump Sump 70 kg	Kg	68.00	4760.00
					Total =			649180.00
							Add for GST @ 18%	116852.40
							Grand Total	766032.40
							Amount in Lacs =	7.66

Prepared By :-
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Sub Estimate- 04

Construction of Switch Room at OHT Site

SOR (P.W.D.) Building Work. 1 - 01- 2015 & SOR PWD ELECTRICAL 01.07.2015

	Item Description	Nos.	L	B	H/D	Qty.	Unit	Rate	Amount
	and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete vibrator in all works upto plinth level excluding cost of form work.								
	1:1½(1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).								
	Beam	1.00	16.00	0.20	0.30	0.96			
	(SOR PWD BUILDING WORK P-23 IT No-3.2.1)				Total	0.96	Cum	4163.00	3996.48
2	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	Beam	1.00	16.00	0.20	0.30	0.96			
	(SOR PWD BUILDING WORK P-23 IT No-3.4)				Total	0.96	Cum	97.50	93.60
3	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	Beams, lintels, cantilevers & walls								
	Beam	1.00	16.00	0.20		3.20			
		1.00	16.00		0.30	4.80			
	(SOR PWD BUILDING WORK P-16 IT No-2.1.8)				Total	8.00	Sqm	202.00	1616.00
4	Brick work with modular fly-ash lime brick (FALG Bricks) conforming to IS: 12894-2002 of class designation 40 in foundation and plinth in:								
	Cement Mortar 1:4 (1 cement : 4 coarse sand)								
		1.00	16.00	0.20	4.00	12.80			
	Duduction Door (-)	1.00	1.00	0.20	2.10	-0.42			
	Duduction Window (-)	1.00	1.20	0.20	1.20	-0.29			
	(SOR PWD BUILDING WORK P-45 IT No-7.5.2)				Total	12.09	Cum	3452.00	41741.58
5	Extra for brick work in superstructure:								
	Above plinth and upto floor five level.								
		1.00	16.00	0.20	4.00	12.80			
	Duduction Door (-)	1.00	1.00	0.20	2.10	-0.42			
	Duduction Window (-)	1.00	1.20	0.20	1.20	-0.29			
	(SOR PWD BUILDING WORK P-45 IT No-7.5.2)				Total	12.09	Cum	121.00	1463.13
6	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.								
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.								
	Door window fram and ventilatar (40X40X6 mm)								
	Door	15.00	6.20		4.47	415.71			
	Window	15.00	7.20		4.47	482.76			
	Window	15.00	@		15.00	225.00			
	Ventilation	1.00	@	5.00	kg	5.00			
	Slab (chaneels 150x75mm)	1.00	5.00		16.80	84.00			
	Angle section 75x75x8mm)	1.00	16.00		8.90	142.37			
	(SOR PWD BUILDING WORK P-80 IT No-9.6.2)				Total	1354.83	Kg	68.00	92128.64

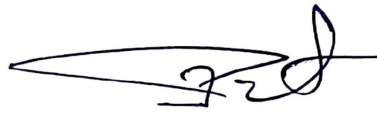
	Description	Nos.	L	B	H/D	Qty.	Unit	Rate	Amount
	h door shutters, conforming to IS : ive type core of block board frame of first class hard wood and well veneering with vertical grains or cross veneers on both faces of shutters excluding hinges								
	25 mm thick (single leaf)								
		1.00	1.00	2.10		2.10			
					Total	2.10	Sqm	2005.00	4210.50
	Providing and fixing flush door shutters, interior grade, commercial type, core of block board construction with frame of first class hard wood and wall matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.								
	25 mm thick (double leaf for cupboard shutters with piano type hinges for window (SOR PWD BUILDING WORK P-56 IT No-8.12.4)	1.00	1.20	1.20		1.44	Sqm	1659.00	2388.96
9	providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawing including cost of binding wire all complete								
	Thermo-Mechaincally treated bars								
	@ 100 kg/cum					96.00			
	(SOR PWD BUILDING WORK P-24 IT No-13.12.2)				Total	96.00	Kg	54.50	5232.00
10	12mm thick cement plaster of mix								
	In cement mortar 1:5 (1 cement : 5 fine sand)								
		1.00	18.00		4.00	72.00			
	(SOR PWD BUILDING WORK P-103 IT No-11.2.3)				Total	72.00	Sqm	96.50	6948.00
11	15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	in cement mortar 1:4 (1 cement : 4 fine sand)								
		1.00	18.00		4.00	72.00			
					Total	72.00	Sqm	120.00	8640.00
12	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.								
	(SOR PWD BUILDING WORK P-133 IT No-14.13)					72.00	Sqm	94.50	6804.00
13	White washing with lime to give an even shade.								
	On new work (three or more coasts)								
	AS PER 12MM					72.00			
	AS PER 15MM					72.00			
	(SOR PWD BUILDING WORK P-132 IT No-14.5.1)				Total	144.00	Sqm	9.40	1353.60
14	Colour washing such as green, blue or buff with lime to give an even shade								
	On new work (two or more coasts) including a base coat of white washing as per outer plaster								
	(SOR PWD BUILDING WORK P-132 IT No-14.7.1)				Total	144.00	Sqm	12.00	1728.00
15	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws:								
	250x16 mm (SOR PWD BUILDING WORK P-66 IT No-8.99.2)	2x1				2.00	Each	72.50	145.00
16	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:								
	(SOR PWD BUILDING WORK P-67 IT No-8.103)								
	125 mm	2.00				2.00		51.00	102.00
	100 mm	3.00				3.00		45.50	136.50

	Description	Nos.	L	B	H/D	Qty.	Unit	Rate	Amount
	in wood work with ready mixed								
		2.00	1.20	1.20		2.88			
		2.00	1.00		2.10	4.20			
					Total	7.08	Sqm	23.50	166.38
	(SOR PWD BUILDING WORK P-134 IT No-14.20)								
	in new work (two or more coats)to give an even								
	with:								
	mium synthetic enamel paint (2nd top most approved								
	anded quality) to give an even shade.								
	(SOR PWD BUILDING WORK P-134 IT No-14.22.2)								
	Window	1.00	1.00		2.10	2.10			
	Door	1.00	1.20		1.20	1.44			
	(SOR PWD BUILDING WORK P-92 IT No-10.17)				Total	3.54	Sqm	47.00	166.38
19	Providing asbestos cement 6mm thick corrugated or semi corrugated sheets roofing fixed with galvanized J or L hooks, bolts and nuts 8mm dia G.I. plain bitumen washers complete excluding the cost of purlins, rafters and trusses.								
	(SOR PWD BUILDING WORK P-92 IT No 10.17)	1.00	5.00	5.00		25.00	Sqm	347.00	8675.00
20	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:								
	100x10mm								
	Door	1x2				2.00			
	Window	1x6				6.00			
	(SOR PWD BUILDING WORK P-62 IT No 8.62)					8.00	Each	119.00	952.00
Total Amount Part A =									188687.76
Part-B INTERNAL ELECTRIFICATION (SOR CG PUBLIC WORK DEPATMENT IN FORCE FORM 01.07.2015)									
1	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.(SOR PWD ELECTRICAL WORK P-18 IT No 3.1)								
	Short Point					2.00	Point	236.00	472.00
	Medium Point					4.00	Point	388.00	1552.00
	Long Point					1.00	Point	553.00	553.00
2	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required..(SOR PWD ELECTRICAL WORK P-20IT No 3.11)								
	Medium Point					1.00	Point	934.00	934.00
3	Extra for providing and fixing light plug point of board in surface PVC conduit, with piano type switch 3 pin 5 amp socket outlet and 5 amp switch including cost of phenolic laminated sheet and M.S. box etc. as required.(SOR PWD ELECTRICAL WORK P-18 IT No 3.3)					1.00	Point	95.00	95.00
4	Wiring for circuit/sub main wiring along with earth wire with the following sizes of FR PVC insulate copper conductor, single core cable in concealed PVC conduit as required.(SOR PWD ELECTRICAL WORK P-21 IT No 3.13)								
	3x2.5 sq mm in 20 mm conduit					30.00	Meter	104.00	3120.00
	6x2.5 sq mm in 25 mm conduit					40.00	Meter	172.00	6880.00
	9x2.5 sq mm in 32 mm conduit					28.00	Meter	249.00	6972.00

	Description	Nos.	L	B	H/D	Qty.	Unit	Rate	Amount
	32 amp DP surface switch with wooden box including connection, etc.(SOR PWD ELECTRICAL WORK P-38 IT No 7.1.12)					1.00	Each	139.00	139.00
	Supplying and fixing 3 pin 5 amp ceiling rose on the existing wooden block including connection etc as required (SOR PWD ELECTRICAL WORK P-36 IT No 7.1.13)					1.00	Each	28.00	28.00
	Supplying and fixing polycarbonate pendent holder including connection etc. as required (SOR PWD ELECTRICAL WORK P-36 IT No 7.1.14)					3.00	Each	38.00	114.00
	Supplying and fixing call bell/suzzer suitable for single phase, 230 volts A.C. supply. complete as required								
	Deluxe					1.00	Each	141.00	141.00
9	Providing and fixing metal clad, SP&N switch fuse unit (rewirable), 230/250 volts, with porcelain re-wireable fuses including drilling holes on the board, connections, earthing the body etc. as required. (Thimbeling shall be paid separately)(SOR PWD ELECTRICAL WORK P-53 IT No 9.9.1)								
	32 amps					1.00	Each	931.00	931.00
10	Supplying and fixing on surface/recess following way, 240 volts SP&N MCB distribution board of sheet steel phosphatized and powder painted with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnection etc. as required. (But without MCR/RCCB/Isolator)(SOR PWD ELECTRICAL WORK P-68 IT No 11.3)								
	2 + 4 way					1.00	Each	661.00	661.00
11	Supplying and fixing SP MCB, 240 volts, 'B' series, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as required. (SOR PWD ELECTRICAL WORK P-71 IT No 11.10)								
	6 amps to 32 amps					1.00	Each	154.00	154.00
12	Supplying, installation, testing and commissioning of following sizes ceiling fan with resistance type regulator, including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable earthing etc. complete as required.(SOR PWD ELECTRICAL WORK P-39 IT No 8.1)								
	1400 mm sweep					1.00	Each	1637.00	1637.00
13	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) exhaust fan in existing opening in wall including earthing etc. complete as required.(SOR PWD ELECTRICAL WORK P-40 IT No 8.6)								
	300 mm sweep					1.00	Each	2558.00	2558.00
14	Supplying, installation, testing and commissioning of following surface/concealed type fluorescent fitting (luminaries) complete with copper ballast, glow type starter but without fluorescent lamp, on ceiling/wall surface, earthing the fitting etc. as required (SOR PWD ELECTRICAL WORK P-40 IT No 8.9.1)								
	4' x 40 w single patti type					3.00	Each	272.00	816.00
15	Supplying, fixing and testing and commissioning of following CFL without ballast in existing CFL lighting luminaries as required.(SOR PWD ELECTRICAL WORK P-42 IT No 8.19)								
	18 W CFL (without choke)					3.00	Each	165.00	495.00
16	Supplying, fixing, testing and commissioning of following 230/250 volts fluorescent lamp (tube) in existing lighting luminaries as required.(SOR PWD ELECTRICAL WORK P-41 IT No 8.12)								
	4' x 36/40 watt					1.00	Each	51.00	51.00

Description	Nos.	L	B	H/D	Qty.	Unit	Rate	Amount
House service connection G.I. Pipe along with 2 nos. 50x50x6mm angle iron 75x90mm shackle insulator with straps complete. (SOR PWD ELECTRICAL No 23.1)					1.00	Set	1601.00	1601.00
and installing (overhead) service main with PVC aluminium conductor single core cables ended with bobbin insulator (in group of 2/34 wires) on existing bearer wire in an approved manner and as per specification etc. or drawn in existing G.I. pipe bracket or conduit pipe wherever required, including connection, testing etc. (SOR PWD ELECTRICAL WORK P-152 IT No 23.2)								
2x6.0 sq. mm					10.00	Metre	54.50	545.00
Total Amount Part B =								30449.00
Total Amount Part A + B =								219136.76
Add 18% GST =								39444.62
Grand Total with GST =								258581.38
Total Amount in Lacs								2.59

Prepared By :-
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