

OFFICE OF MUNICIPAL CORPORATION KORBA

NIT No: 20 /2026

Notice Inviting Tender

Korba Dated 31.08.2026

Commissioner, Municipal Corporation Korba invites online Tenders on behalf of Municipal Corporation Korba on Form "A" (Percentage rate) From Eligible Class registered contractors who have completed work of Road 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.	198518 (2nd Call)
2	Name of Work/Description of Work	Construction Work of Bridge Over Canal Near Agrasen Tiraha and C.C. Road From Bridge To DDM Road, Expansion Work of Sunaliya Chowk & C.C. Road Along The Canal Bank From Sunaliya Chowk To Ratakhari Joda Bridge VIA Agrasen Tiraha in Korba (C.G.)
3	Probable Amount of contract	Rs. 1850.21 Lakh
4	Earnest Money Deposit	Rs. 5.00/- Lakh (In shape of FDR/TDR favor of Commissioner, Municipal Corporation, Korba)
5	Cost of Tender form fees	Rs. 5000/- (In shape of Demand Draft favor of Commissioner, Municipal Corporation, Korba)
6	Eligible class of contractor / firm	Class- "A"
7	Time allowed for Completion	24 Months (Including rainy season)
8	SOR Applicable	CGPWD BUILDING SOR DT 01.01.2025 CGPWD ROAD SOR DT 01.01.2025 CGPWD BRIDGE SOR DT 01.01.2025 CGPWD ELECTRICAL SOR DT 01.06.2020 CGPHE USOR DT 01.06.2020
9	Financial Capacity (as per clause 3.8.1)	Rs. 277.53 Lakh

- 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- 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.
- 6- The Bidders may refer Help Manual available online to perform their online activities.
- 7- The COMMISSIONER, MUNICIPAL CORPORATION KORBA 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 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) after the approval from competent authority.
- 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.

The bidders are required to submit 'Envelope "A & B" physically and online as per dates Indicated in Key Dates. The Physical Envelope should contain the following: -

- a) **Envelop 'A' (Key Submission - Submit physically & online)-** All the required document submission are mandatory for opening of Technical Bid.
 - i. The **Earnest Money Deposit (EMD) of 5.00 lakh in the form of FDR/TDR of a Nationalised /Scheduled bank of India** in favour of the "**Commissioner, Municipal Corporation, Korba**" payable at 'Korba' which will be returned to the unsuccessful Bidders after the award of contract. The Earnest Money of the successful Bidders will be retained as part of the Security Deposit.
 - ii. **Tender Document Fee of 5000/- Rs.** (Demand Draft in favour of Commissioner, Municipal Corporation, Korba (C.G.)
 - iii. **Affidavit in Original. (Non Judicial stamp in 100 Rs.)** (as per Enclosed Annexure-13 in Tender Documents)
 - iv. **Annexure H" For Pre- Contract Integrity Pact (in Non Judicial stamp in 100 Rs.)**
- b) **Envelop- 'B" (Technical Bid - Submit physically & online) -** Also the Envelop B shall be submitted physically. In all cases the submission which is online shall prevail.
 - i. The bidder mandatorily submit all relevant documents that demonstrate their eligibility and qualification as per the criteria outlined in the section of Qualification Criteria of bid document. Incomplete or missing documents will result in automatic disqualification during the tchnical evaluation stage.
 - ii. Attested copy of Valid Registration Certificates. CG PWD and (Partnership Deed, registration amendment certificate as the case may be)
 - iii. Attested copy of PAN card issued by I.T. Department.
 - iv. Attested 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.
 - v. Valid Bank Solvency certificate in Bank Letter Head. (Not older than 06 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.
 - vi. Power of Attorney/Letter of authorization to sign the bid. (as per annexure 9) to be submitted on the stamp paper of Rs 100 and duly notarized.
 - vii. Partnership deed /MOA of company.
 - viii. Technical & Financial prequalification documents
 - ix. Bid Capacity
 - x. ITR of last five years (up to 31-03-25) 2020-2021,2021-2022,2022-2023,2023-2024,2024-2025.

- xi. The bidder should have a turn over last five year (i.e. 2020-21 to 2024-25). The turn over certificate from C.A.
 - xii. As per Pre-Qualification Criteria mentioned in PQ document. (Annexure- 1 to 14)
 - xiii. The bidder must submit separate duly notarized Affidavits as per Annexure-13 (General Affidavit) in Rs. 100/- Non-Judicial stamp paper and the same mandatorily attached along with the bid documents.
 - xiv. All the term and conditions outlined in CGPWD, Raipur Order No.-F21-5/t/19/2012/nivida (part) dated 29.09.2025 is considered as a part of bid.
 - xv. The Bidder Shall be Submitted ESIC & EPF. Including Last 3 Months Of Receipt Challan copy must be submitted.
 - c) **Envelop- "C" - (Financial Bid - Submit only Online)**
If the bidder quotes his rates in physical submissions than it will lead to disqualification during evaluation of the bid.
 - d) **Physical Submission** - The sealed envelope (A & B) covered in another Envelop should be sent by registered A.D. or speed post in this office (Commissioner, Municipal Corporation, Korba (C.G.) Address of Saket Bhawan ITI Rampur Chowk Korba (C.G.) up to dated **05/08/2026, 15.00.** (Please mention the Name of Work, N.I.T. No. in Physical Envelop)
- 10- 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.
 - 11- 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.
 - 12- 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.
 - 13- 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.
 - 14- The Technical Document of the contractors have to be Notarized Seal and Signed (originally) before submitting the bids online.
 - 15- 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.
 - 16- Other Details can be seen in the tender documents.
 - 17- The bidder must submit a duly notarized affidavit (as per Annexure 13) providing details of any ongoing litigation or arbitration proceedings. This includes any dispute the bidder is currently involved in, either as a claimant or respondent. The affidavit should clearly state the nature of the litigation, the parties involved, and the current status of each case. Failure to disclose accurate and complete information will lead to disqualification the bid.
 - 18- The contractor shall not be discontinues the execution of work only due to delay in payment of running bill etc.

- 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, Good and Service tax (GST), other statutory obligations. The bidder will be solely responsible for adhering to these regulations throughout duration of the project.
- 22- After the award of the work order, the successful bidder must obtain approval for all the project- related drawings and designs from the National Institute of Technology (NIT)/ Indian Institute of Technology (IIT) 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.
- 23- As per Clause 7.17 Work Program and Methodology upon issuance of the work order, the successful bidder must submit a detailed work program and construction methodology, ensuring the project is executed within the specified timeframe. This submission must include a timeline of key activities, resource allocation and a cash flow projection for the duration of the project. The program must be approved by the competent authority before work commences.
- 24- During the execution of project any dispute between the construction agency (successful bidder) and the Municipal Corporation Korba shall be resolved in accordance with the provisions outlined in the tender documents. The decision of the Commissioner Municipal Corporation Korba, shall be final and binding on the both parties.
- 25- The total bid amount will be calculated as per evaluated rates for SOR items. The bidder with the lowest total bid amount will be declared the successful bidder.
- 26- The bidder must prepare the index of all the bid documents submitted along with the bid with page number of each document arranged accordingly.

SPECIAL CONDITION-

- 27- In the event of withdrawing his/her offer before the expiry of the period of validity of offer or failing to execute the agreement as required by conditions of the notice inviting tender (N.I.T.) he/she will not be entitled to tender for this work in case of recall of tenders. **In addition to forfeiture of his/her earnest money as per provisions of tender condition as may be applicable for the work, the Commissioner, Korba Municipal Corporation will restrict the contractor/firm for a period of one year in participation of all KMC tenders.** If the tenderer has committed a similar default after restriction period on earlier occasion(s) as well, then Commissioner, Korba Municipal Corporation recommended for demotion in registration to the committee of 'Unified Registration System' (e-Registration) with Chhattisgarh P.W.D. State Governments will be permanent. This special condition will supersede any thing contrary to it in the tender document.



- 28- "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 Guaranty issued by scheduled Bank for agreement period in favour of Commissioner Municipal Corporation in Additional To Performance security failing which the tender in this favour shall be liable for Rejection." The same shall be released along with the normal Security Deposit.
- 29- Contractors are advised to go through the Notice Inviting tenders & the tender/P.Q./Bid Capacity document thoroughly Certificates, annexure, enclosures as mentioned in the document will have to be submitted by the tenders strictly in the prescribed format, at the time of submission of Technical bid, failing which the contractor shall disqualify for the work & his financial offer shall not be opened and no representation, appeal or objection, what so ever in this regard shall be entertained by the department.
- 30- i. **Performance Security: Performance Security** of 5% shall be deducted from the each running bill.
- 31- ii. **Refund of Performance Security:** - Performance security shall be refunded after 60 months of completion of work as certified by Engineer-in-Charge.
- 32- "The Municipal Corporation shall only provide the General Arrangement Drawing (GAD) for the proposed bridge, whereas the contractor, at their own cost, shall conduct all necessary site investigations, including soil testing and Safe Bearing Capacity (SBC) testing, and subsequently prepare the comprehensive structural drawings, designs, and detailed estimates by Structural Designer/bridge designer & vetted by any National Institute of Technology (NIT) or any Indian Institute of Technology (IIT) based on the test reports at their own expense, which must be duly vetted and approved by the Chief Engineer, Urban Administration and Development (UAD) OR Engineer in Chief (EnC), PWD Bridge Division, prior to the commencement of any execution work on-site strictly as per the approved designs."


COMMISSIONER
SUPERINTENDING ENGINEER
MUNICIPAL CORPORATION
KORBA (C.G.)

SYSTEM TENDER No. 198518 (1st Call)

NIT No. 20/Korba Zone/2026

Korba Dated 31/08/2026

Key Dates

Task	Date	Time
Bid Start Date	31.08.2026	17:31
Prebid Meeting	07.09.2026	15.30
Bid Due Date	15.09.2026	17:30
Physical Doc Submission End Date	18.09.2026	15:00
Bid Open Date (Scheduled)	18.09.2026	17:00


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

CONSTRUCTION WORK OF ROAD AND BRIDGE OVER THE CANAL FROM AGRASEN TIRAHA TO D.D.M. ROAD, EXPANSION WORK OF SONALIA CHOWK & C.C. ROAD ALONG THE CANAL BANK FROM SONALIA CHOWK TO AGRASEN TIRAHA (FROM RATAKHAR BRIDGE TO LIONS GARDEN ROAD)

BILL OF QUANTITY

S.No.	PARTICULAR	UNIT	QTY.
	BRIDGE SOR 2025		
1	2.18 Bored cast-in-situ M40 grade R.C.C. pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and all lead as per section 1100 and 1700.		
	(I) Pile diameter-750mm		
	FOR BRIDGE	MTR	840.00
	(BRIDGE SOR ITEM NO.-2.18/16)		
2	2.24 Levelling course for Pile cap (Providing and laying of P.C.C.M-15 levelling course 100mm thick below the pile cap.) as per section 1100 & 1700.		
	(BRIDGE SOR ITEM NO.-2.24)	CUM	64.35
3	2.23 Cement concrete for reinforced concrete in pile cap complete as per drawing and Technical Specifications per clause 1100, 1500 and 1700. A Using batch type concrete mixer with integrated weigher.- RCC Grade M40		
	(BRIDGE SOR ITEM NO.-2.23)	CUM	555.75
4	2.25 Supplying, fitting and placing HSD (High Strength Deformed steel) bar reinforcement in foundation complete as per drawing and technical specifications as per section 1600.		
	PILE CAP	MT	114.20
	(BRIDGE SOR ITEM NO.-2.25)		
5	3.6 Providing and laying Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications section 1500, 1700 and 2200 F Height above 10m (a) Using batch type concrete mixer with integrated weigher. (V) R.C.C./P.S.C Grade M-40		
	(BRIDGE SOR ITEM NO.-3.6)	CUM	721.95
6	3.8 Supplying, fitting and placing HSD bar reinforcement in sub-structure complete as per drawing and technical specifications section 1600 and 2200 High tensile steel wires/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical Specifications as per section 1600		

S.No.	PARTICULAR	UNIT	QTY.
	(BRIDGE SOR ITEM NO.-3.8)	MT	90.24
7	Fabrication of steel girders spans as per approved drawings for composite construction Le. (Steel RCC) of superstructure of the Road Over Bridge with mild steel confirming to IS:2062-1992 with all rivets, nuts bolts etc, with materials, fabrication, machinery, templates, masterplates, jigs, fixtures, equipments tools and of approval quality, ISI mark paint, transportation, skilled/unskilled labour, i/e all taxes, all leads & lifts, descent, loading, unloading, crossing one or more Railway track if required etc. complete and as per technical specifications section. 1900 of MORTH. The rate is inclusive of transportation of fabricated girder parts to site by all means and cost. The rate shall also be inclusive of cold straightening of deformed and bent girder parts before their assembly and painting, 1st priming coat Zine chromate yellow (IS 104 latest revision). After fabrication in workshop first primer coat zine chrome yellow (IS 104 latest revision) will be applied to all parts except flooring system. ring system. The rate shall also be inclusive of sand blasting and metalizing as per IRS BI-2001 Appendix VII IS 6585, The 2nd primer coat of zinc chrome red oxide IS 2074 and 1st finishing coat of Aluminium paints to IS 2339 will be applied on the girder parts before transportation of girder parts in all respect. NOTE:- The Girder shall be fabricated by the approved vendors of RDSO only and as per approved QAP & WPSS. from Railways All weld are to be made by approved welder using approved welding procedures. The rates are deemed to include cost of rivets, drifts, bolts & nuts reverting/welding etc. The rate shall be inclusive of any temporary arrangement strengthening of members if required in connection with launching of girders and restoring it back as per original standard drawing. The rate shall be inclusive of any temporary		
	(BRIDGE SOR ITEM NO.-4.32)	MT	216.00
8	Furnishing and Placing Reinforced/Prestressed cement concrete in super-structure as per drawing and Technical Specification sections 1500, 1600 and 1700 RCC Grade M25 For Solid Slab Super Structure Using batch (III)		
		CUM	400.50
9	4.11 Providing, fitting and fixing mild steel railing with minimum 2 nos ISMC 100 post spaced @ 2 metre c/c with ISMC 100 as horizontal members at top and bottom and 20 mm square bars spaced @ 100 mm c/c between posts complete as per approved drawing and Technical Specification and as per relevant clauses of section 1900 and 2703.2 (All vertical square bars is to be inserted in all horizontal members pierced and welded in horizontal members)		
	(BRIDGE SOR ITEM NO.-4.11)	MTR	428.00
10	2.1 Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) as per section 304. I Ordinary soil (i) Upto 3 m depth		

S.No.	PARTICULAR	UNIT	QTY.
		CUM	893.52
	(BRIDGE SOR ITEM NO.- 2.1/11)		
11	Add extra 20% in the rates of above items for dewatering (Assessment of dewatering condition) shall be made as per site	CUM	893.52
12	2.6 Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications as per section 1500,1700 & 2100. A Using batch type concrete mixer with integrated weigher. (i) PCC Grade M15		
	(BRIDGE SOR ITEM NO.- 2.6/12)	CUM	52.56
13	2.6 Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications as per section 1500,1700 & 2100. A Using batch type concrete mixer with integrated weigher. (IV) RCC Grade M30		
	(BRIDGE SOR ITEM NO.- 2.6(iv)/12)	CUM	374.40
14	3.6 Providing and laying Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications section 1500, 1700 and 2200 E Height 5m to 10m (a) Using batch type concrete mixer with integrated weigher. (iii) R.C.C. Grade M-30		
	(BRIDGE SOR ITEM NO.- 3.6/21)	CUM	372.60
15	3.7 Supplying, fitting and placing HSD bar reinforcement in sub-structure complete as per drawing and technical specifications section 1600 and 2200		
	(BRIDGE SOR ITEM NO.- 3.7/22)	MT	46.58
16	3.9 Providing weep holes in Brick masonry/ Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing & Technical specifications section 2706 & 2200		
		Meter	432.00
	(BRIDGE SOR ITEM NO.- 3.9/22)		
17	2.25 Supplying, fitting and placing HSD (High Strength Deformed steel) bar reinforcement in foundation complete as per drawing and technical specifications as per section 1600.		
		MT	48.43
	(BRIDGE SOR ITEM NO.-2.25)		
	ROAD SOR 2025		

S.No.	PARTICULAR	UNIT	QTY.
18	Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.		
	(PWD ROAD SOR NO. 3.2/11)	CUM	4819.50
19	3.14 Construction of Embankment/sub-grade with Material Deposited from Roadway Cutting Construction of embankment/sub-grade with approved materials having required C.B.R. for embankment/sub-grade (unless specified otherwise in the contract) deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2.		
	(PWD ROAD SOR NO. 3.14/12)	CUM	4935.00
20	3.12 Construction of embankment with Material Obtained from Borrow Pits/Borrow Area- Construction of embankment with approved material/selected soil having C.B.R. > 5 (unless specified otherwise in the contract) obtained from borrow pits/borrow area with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2.		
	(PWD ROAD SOR NO. 3.12/12)	CUM	27596.25
21	3.13 Construction of sub-grade with Material Obtained from Borrow Pits/Borrow Area Construction of sub-grade with approved material/selected soil having C.B.R. > 8 (unless specified otherwise in the contract) obtained from borrow pits/borrow area with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2		
	(PWD ROAD SOR NO. 3.13/12)	CUM	10530.00
22	4.1 Granular Sub-base as per Table :- 400-1 Construction of granular sub base by providing close graded material carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface watering rolling and compacting with vibratory power roller at OMC to achieve the desired density complete as per clause 401		
	Plant mix method (with Mechanically crushed stone only)		
	b. For Lower Sub-base with		
	(i) Grading-V Material (PWD ROAD ITEM NO.-4.1(B)i/17)		
		CUM	5265.00

S.No.	PARTICULAR	UNIT	QTY.
23	4.1 Drainage Layer of Granular Sub-Base for RIGID PAVEMENT Construction of granular sub-base by providing graded granular material mechanically mixed in plant conforming to required grading mentioned in Appendix-VI and Clause 5.7.3.9 of IRC:58-2015, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401.		
	By Plant mix Method (with mechanically crushed stone only)		
	A. For Sub-Base as per AASTHTO 93: Grading 6 of Table VI-I		
	(PWD ROAD ITEM NO.-4.2(A)i/17)	CUM	5265.00
24	6.1 Dry Lean Cement Concrete Sub- base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ CUM, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)		
	(PWD ROAD SOR NO.-6.1/32)	CUM	2250.00
25	6.2 Cement Concrete Pavement Construction of un- reinforced, dowel jointed, plain cement concrete pavement as per IRC:58 over a prepared sub-base, coarse and fine aggregate conforming to IS:383 and graded as per table 600-3 mixed in a batching and mixing plant as per approved mix design, transported to site, laid with slip form / fixed form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per clause 602.		
	(i)-Using Slip form Paver With Cement concrete grade M-40 and minimum cement content @ 400 kg/cum.		
	(PWD ROAD SOR NO.- 6.2/A/(i))/32)		
		CUM	4500.00
26	4.11 Construction of Shoulders Construction of shoulders with selected soil from borrow pits I borrow areas having CBR not less than 12 and shall have L.L. and P .I. not more than 25% and 6% respectively, inclusive of all leads and lifts, including clearing and scrapping of existing surface, providing required cross fall, compacting. watering, rolling etc. complete as per clause 408.		
	(A). With Vibratory roller		
	(PWD ROAD SOR NO.- 4.11/A(19)	CUM	2424.00

S.No.	PARTICULAR	UNIT	QTY.
27	8.38 Metal Beam Crash Barrier (A). Type - A, "W" : Metal Beam Crash Barrier Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanized by hot dip process, all fittings to conform to IS: 1367 and IS: 1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 811.3 (PWD ROAD SOR NO.- 8.38/A(53))		
		M	3820.00
28	Construction of RCC open drain with width 0.60m or 0.45 m (inside dimension) and average depth from inlet to outlet 0.60m or 0.45 m (maintaining slope as per site conditions) with 120 mm thick RCC M-25 walls, 120 mm thick RCC M-25 bottom slab, over 100 mm thick (Av.) levelling course in PCC M-15 including excavation, dressing of sides and bottom, providing HYSD reinforcement consisting of 8 mm dia horizontal bars @ 150 mm c/c and U-shaped 8 mm dia bars @ 150 mm c/c including cutting, bending and binding wires, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications. (i) 0.60 m width x 0.60 m average depth		
		MTR	860.00
	(PWD ROAD SOR NO. 3.19(B)-(I)/13)		
29	3.22 Providing and laying Pre cast RCC slab over RCC drain of required size made of grade RCC M-25 with 50mm dia perforation @ 600mm c/c in two rows in zig-zag pattern as per structural drawing including transportation of pre cast segments to work site and placing over drain as instructed by Engineer-in-charge. (I) Slab with reinforcement 10mm dia at 150mm c/c both ways B-840mm wide and 150mm thick (for drain 600 x 600 mm)		
		MTR	860.00
30	9.12 Providing and laying Precast box culvert of required size made of grade RCC M-30 as per typical drawing as approved in SOP as per IRC:122-2017 structural drawing including arrangements for lifting, placing and jointing in box segments, transportation of precast segments of 2m length each to work site over 100mm thick base concrete grade M-15 laid in required slope, placing the box segments in required slope, aligning to line and length, including joining of the box segments to each other with cement mortar 1:1 as instructed by Engineer-in-charge as per drawing. (i) 2m x 2m — RM =		
	ROAD SOR 9.12 /2025	MTR	13.00

S.No.	PARTICULAR	UNIT	QTY.
31	8.13 Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35-1997. The finished surface to be level, uniform and free from streaks and holes.)		
	(ROAD SOR. ITEM NO.-8.13/31)		
		SQM	995.40
32	Providing and fixing Raised Pavement Markers made of polycarbonate ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 Kg tested in accordance to ASTM D 4280 type H and complying to specifications of category A of MORT&H(RW/NH-33023/10/97 -DO III Dtd. 11.06.1997). The pavement markers will be auto moulded by dual polymer shanks and must comply with all the MoRT&H specifications. The height, width and length shall not exceed 50 mm, 100 mm and 100 mm respectively and with minimum reflective area of 13 Sq.cm. on each side and slope to the base shall be 35 +/-5 degree. The strength of detachment of the integrated cylindrical shanks (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 kgf. Fixing will be by drilling holes on road for the shanks to go inside, without nails and using epoxy resin based adhesive and complete as directed by the Engineer-in-charge.		
	(ROAD SOR. ITEM NO.-8.37/34)	EACH	1974.00
33	Providing and fixing of Solar Raised Pavement Markers made of polycarbonate molded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro-prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM D 4280. The marker should be resistant to dust and water ingress according to IP 65 standards and should withstand temperatures in the range of 0oC to 70oC. Color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1Hz. There should be current losses of less than 20 micro-amperes at 2.4 V in sleep-charging mode to enhance the life of the marker and a full charge should provide for a minimum autonomy of 50 hours. The height, width and length of the marker shall not be less than 10 mm x 100 mm x 100 mm. Also, the surface diameter of the marker shall not be less than 100 mm respectively		
	(ROAD SOR. ITEM NO.-8.34/51)	EACH	24.00

S.No.	PARTICULAR	UNIT	QTY.
34	Retro- reflectorized Traffic signs as per Clause 801 Providing and fixing of retro- reflectorized cautionary, mandatory and informatory sign digitally printed over reflectorized sheeting of required grade confirming to ASTM D 4956 including covering with transparent sheeting (lamination sheeting) to protect from fading and damage due to wheather effect as per Clause 6 of IRC:67- 2022 made of retro-reflective type sheeting fixed over Aluminum/ Aluminium Composite Material (ACM) sheeting including application of fluorocarbon coating applied on exposed surface of aluminium to ensure corrosion resistance, supported on a mild steel back frame of ISA 40 x 40 x 5 mm and mild steel angle iron post 75 mm x75 mm x 6mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45cm x 60cm, as per approved drawing and painting all exposed components of the signs and supports with primer and 2 coats of epoxy paints or powder coating and the part of post below ground shall be painted with 3 coats of redoxide paint as per clause 7.2 of IRC:67-2022. (Note: The details of m hufacturer, type of sheeting, month and year of installation, project details and other details along with QR code as detailed in clause 13.2 and Annexure-VII of IRC:67-2022 shall be printed on back side of sheeting board)		
	With Aluminium Sheeting A-Made of Class-C Micro Prismatic Grade Sheeting of Type XI confirming to Table 6.9 of IRC:67-2022 (for National Highways and State Highways)		
	a)-With Aluminium Sheeting of 2 mm thickness		
	(i)1200 mm equilateral triangle	EACH	11.00
	(ii)900 mm equilateral triangle	EACH	11.00
	(iii)900 mm x 750 mm rectangular	EACH	11.00
	(v) 1200 mm high octagon	EACH	10.00
	(viii) 900 mm circular	EACH	10.00
	(ROAD SOR. ITEM NO.-8.4/36)		
35	Direction and Place Identification signs upto 0.9 sqm size board as per Providing and erecting direction and place identification retro- reflectorized sign Digitally Printed over reflectorized sheeting of required grade confirming to ASTM D 4956 including covering with transparent sheeting (lamination sheeting) to protect from fading and damage due to wheather effect as per IRC:67-2022 made of retro-reflective type sheeting fixed over Aluminum sheeting / Aluminium Composit Material (ACM) Sheeting including application of fluorocarbon coating applied on exposes surface of aluminium to ensure corrosion resistance, supported on a mild steel back frame of ISA 40 x 40 x 5 mm and mild steel angle iron post 75 mm x75 mm x 6mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45cm x 60cm, 60 cm below ground level as per approved drawing and painting all exposed components of the signs and supports with primer and 2 coats of epoxy paints or powder coating and the part of post below ground shall be painted with 3 coats of redoxide paint as per clause 7.2 of IRC:67-2022. (Note: The details of manufacturer, type of sheeting, month and year of installation, project details and other details along with QR code as detailed in clause 13.2 and Annexure VII of IRC:67-2022 shall be printed on back side of sheeting board)		
	(ROAD SOR. ITEM NO.-8.6/40)	SQM	29.61

S.No.	PARTICULAR	UNIT	QTY.
36	Excavation for strcture earth work in excavation of foundation of structure as per drawing & technical specification including setting out, construction & shoring and bracing dressing of side & bottom and back filling with approved Material		
	(ROAD SOR. ITEM NO.-9.1/59)	CUM	25.35
37	6.3 Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications. (i) P.C.C. M-10 — Cum		
	(ROAD SOR. ITEM NO.-6.3/32)	CUM	2.54
38	9.2 Providing and laying Reinforced Cement Concrete pipe NP 4 / prestressed concrete pipe on first class bedding (Laying Reinforced cement concrete pipe NP4/prestressed concrete pipe for culverts on first class bedding of granular material including fixing collar with cement mortar 1:2 and bedding as per clause 2904 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .) C 1000 mm dia		
	(ROAD SOR. ITEM NO.- 9.2/59)	MTR	13.00
39	9.10 Providing and laying Pitching Stone/Boulder on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications as per clause 2504		
	(PWD ROAD SOR NO.- 9.10/(61)		
		CUM	846.00
40	Tack coat Providing and applying tack coat with bitumen emulsion (RS-1, grade confirming to IS:8887) using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per clause 503.		
	(PWD ROAD SOR NO. 5.2/23)	SQM	170.00
41	5.5 Dense Bituminous Macadam (Providing and laying dense bituminous macadam with minimum 40-60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.505 complete in all respects.) B With mechanical paver finisher	CUM	11.90
	(PWD ROAD SOR NO. 5.5/24)		

S.No.	PARTICULAR	UNIT	QTY.
42	5.7-Bituminous Concrete (Providing and laying bituminous concrete with minimum 40-60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder @ 5.0 to 6.0% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects)		
		CUM	8.50
	BUILDING SOR 2015		
43	3.2 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. 3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(BUILDING SOR ITEM NO.- 3.2/23)	CUM	50.63
44	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 all complete: Thermo-Mechanically treated bars FE 500		
	(BUILDING SOR. ITEM NO.-3.12/24)	KG	4050.00
45	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: 2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(BUILDING SOR ITEM NO.- 2.1.1/16)	SQ.M	449.70
46	9.3 Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer. 9.3.2 Electric resistance or induction butt welded tubes Grade-300		
	(BUILDING SOR ITEM NO.- 9.3.2/80)	KG	4680.00
47	14.53 White washing/ Colour washing with lime to give an even shade in Three or more Coats for New surface as per relevant IS code 6278:1971 Consumption of lime 3.50kg /10 Sqm with all tools tackles and labour etc. complete for the work.	SQ.M	259.50
	(BUILDING AMMENDMENT SOR ITEM NO.-14.53/1/05/05/25)		
48	14.57 Providing and applying 2mm thick white cement based Acrylic grade putty with minimum 3 coats applied @4.0 kg/ 10Sqm as per relevant IS code 17545:2021 (Product such as Asian trucare, Berger Happy walls Putty, Birla Opus One pro smooth) to make the surface smooth and even with all tools tackles and labour etc. complete for the work. (This Item to be use in heigher grade painting works Item No. 14.65)		

S.No.	PARTICULAR	UNIT	QTY.
	(BUILDING AMMENDMENT SOR ITEM NO.-14.57/2/05/05/25)	SQ.M	259.50
49	14.68 Providing and applying on exterior surface with PREMIUM Exterior emulsion paint of required shade to give protective and water proof finish minimum 3 coats applied @1.40 lit/10SqM up to final finish as per relevant I.S. Code 15489:2013 Type -2 Class D, C (Glossy /Semi Glossy finish) (Product such as Asian Apex ,Dulux Weather Shield Prima E900, Berger Weathercoat Antidust, Nerolac Everlas Excel, Nippon Sumo Etra, Opus True flex) inclusive of providing abro tape on edges and articleand cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work. (With 3 Year Warranty.)		
	(BUILDING AMMENDMENT SOR ITEM NO.-14.68/4/05/05/25)	SQM	259.50
50	14.71Providing and applying satin/matt finish Enamel paint mimimum 2 coats in all surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevent I.S. code 2932: 2013 of (Product such as Asian satin Enamel, Dulux Promise Premium Enamel, Nerolac Synthatic Enamel, Opus Prime enamel) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackle and labour etc. complete for the work.		
	(BUILDING AMMENDMENT SOR ITEM NO.-14.71/5/05/05/25)	SQM	187.20
51	Suppling and stacking of good earth at site including royalty,loading,unloading and carriage upto 10km(earth measured in stacks will be reduced by 20% for payment)		
	(BUILDING SOR. ITEM NO.-22.2/204)	CUM	69.30
52	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).		
	(BUILDING SOR ITEM NO.-22.4/204)	CUM	13.05
53	22.8 Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).		
	(BUILDING SOR ITEM NO.-22.8/204)	CUM	82.35
	22.9 Mixing earth and sludge or manure in proportion specified or directed	CUM	82.35
	(BUILDING SOR ITEM NO.-22.4/204)		
54	Providing and planting of 3"0" to 4"0" heightd wasingtonia, filipheria/bismarkia novelist plam plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.		
	(ROAD SOR ITEM NO.-12.6/45)	EACH	50.00
55	Providing and planting of 4"0" to 5"0" heightd Ficus prestige/Blackiana plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.		

S.No.	PARTICULAR	UNIT	QTY.
	(ROAD SOR ITEM NO.-12.7/45)	EACH	50.00
56	16.42 Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.		
	(BUILDING SOR ITEM NO.-16.42)	CUM	69.57
57	Carriage by mechanical transport upto 5 km lead: 1.26.3 Dismantled Building debris (Mulba)		
	(BUILDING SOR ITEM NO.-1.26/12)	CUM	69.57
	ELECTRICAL 2020		
58	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as per specification.		
	(EL.SOR. ITEM NO.-19.12/72)	CUM	179.00
59	19.8 Supply of hot dipped galvanized (in single dip to minimum 75 micron) octogonal pole made of 3mm thick steel grade E-350 sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications with 4 way terminal connector including 4mm thick anchor plate, 4 nos 24mm dia foundation bolts of EN8 grade, and as per IS 2062 & BS EN: 10025. (designed for wind speed upto 180km/hr, IS: 875 Part 3) 19.8.1 9 metre high, dia 155mm at bottom and 90mm at top, base plate size 260x260x16mm, foundation bolts 750mm long		
	(EL.SOR. ITEM NO.-19.7.1/71)	EACH	179.00
60	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffner of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as per specification. 19.9.2 Single Over Hang 1.00 metre Long 19.9.6 Double Over Hang 1.00 metre Long		
	(EL.SOR. ITEM NO.-19.9.2/71)	EACH	179.00
61	Erection of GI octogonal/ tubular/conical pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as per specification. 19.11.7 9 metre high		

S.No.	PARTICULAR	UNIT	QTY.
	(EL.SOR. ITEM NO.-19.11.7/72)	EACH	179.00
62	Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as per specification: 31.11.3 Above 8 metre and upto 10 metre		
	(EL.SOR. ITEM NO.-31.11.3/146)	EACH	179.00
	LT Cable and Termination		
63	Supplying and laying following sizes one number FRLS PVC insulated/XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground at a depth not less than 40 cm and upto 90 cm including excavation, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).		
	4 x 10 sq. mm.	METER	1790.00
	Panel Incoming Wiring		
	15.1.24 4 x 25 sq. mm	METER	824.60
	(EL.SOR. ITEM NO.-15.1.22/52)		
64	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as per specification. 4 X 10 sq. mm (22 mm)		
	(EL.SOR. ITEM NO.-15.23.23/57)	NOS.	358.00
65	Providing following size ISI marked FRLS PVC insulated , PVC sheathed, flexible copper conductor wire. 2.5 sq. mm three core		
	(EL.SOR. ITEM NO.-32.2.5/142)	METER	1790.00
66	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as per specification. 16.1.5 180 mm outer dia and 152 mm Inner dia		
	(EL.SOR. ITEM NO.-14.1.5/51)	METER	1790.00
	MAIN METAL PANEL BOARD		
67	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS powder coated sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as per specification.		
	Above 450 mm and upto 600 mm deep	sqm	8.64
	(ELECTRICAL SOR ITEM NO.7.19/34)		

S.No.	PARTICULAR	UNIT	QTY.
68	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as per specification. 400 amp (50x6mm)		
	(ELECTRICAL SOR ITEM NO.7.20/35)	Metre	8.64
69	9.1.5 Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as per specification, IS/ IEC: 60947-2 and Ics = 100 % Icu. 3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA		
	Incomer of Lighting Panel	EACH	6.00
	(ELECTRICAL SOR ITEM NO.9.1.5/50)		
70	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification. 6 amps to 32 amps		
	(ELECTRICAL SOR ITEM NO.9.16/44)	Each	60.00
71	Providing and fixing 3 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as per specification. 60 amps		
	(ELECTRICAL SOR ITEM NO.10.13/48)	Each	12.00
72	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as per specification. 100/5 amps		
	(ELECTRICAL SOR ITEM NO.10.15/48)	Each	6.00
73	Providing and fixing penal mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	(ELECTRICAL SOR ITEM NO.10.17/49)	Each	24.00
74	Providing and fixing penal mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification. 0-200 amps		
	(ELECTRICAL SOR ITEM NO.10.18/49)	Each	15.00
75	Providing and fixing penal mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification. Digital type		
	(ELECTRICAL SOR ITEM NO.10.20/50)	Each	15.00
76	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	For voltmeter	Each	15.00

S.No.	PARTICULAR	UNIT	QTY.
	For ammeter	Each	15.00
	(ELECTRICAL SOR ITEM NO.10.21/50)		
77	Providing and fixing following Time switch (timer) in existing panel including connection, testing and commissioning as per specification. Analoge type		
	(ELECTRICAL SOR ITEM NO.10.22/50)	Each	15.00
	Earthing		
78	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)		
	(EL.SOR. ITEM NO.-12.1/48)	SET	44.75
79	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as per specification.		
	(EL.SOR. ITEM NO.-12.13/49)	METER	22.38
80	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as per specification.		
	(EL.SOR. ITEM NO.-12.12/49)	METER	223.75
81	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 120 lumens /watt. 6.28.9 120 watt		
	(EL.SOR. ITEM NO.-6.28.7/17)	NOS	179.00
	CGPHED SOR 2020		
82	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. (CG PHED SOR Amendment 07/2022-23, It.No. 18.15, Pg.No.51)		
		Cum	135.00
83	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. (CG PHED SOR Amendment 07/2022-23, It.No. 18.19.1, Pg.No.51)		
		Cum	46.50
84	Earth work in excavation for pipe trench in all kinds of rocks in areas including dressing, stacking of useful material and disposal of unserviceable material up to lead up to 50m and lift up to 1.5m. (CG PHED SOR Amendment 07/2022-23, It.No. 18.19.1, Pg.No.51)		
	Soft rock with or without blasting or bituminous pavement / cement concrete road.		

S.No.	PARTICULAR	UNIT	QTY.
		Cum	31.00
85	Pumping out water caused by springs, tides or river seepage, broken water mains or drains or well or the like. (CG PHED SOR Amendment 07/2022-23, It.No.18.21, Pg.No.52)	KL	700.00
86	Providing, laying & jointing including testing following socket & spigot centrifugally cast (spun) Ductile iron pressure pipes with inside cement motor lining (class K-7) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joint as per IS : 5382/2018. (CG PHED SOR Amendment 07/2022-23, It.No.4.1, Pg.No.02)		
	400 mm DI K-7	Mtr	100.00
	300 MM	Mtr	50.00
87	Supply & Filling moorum/river sand for pipe bedding or over the pipe (including supply) (CG PHED SOR Amendment 07/2022-23, It.No.18.24, Pg.No.52)	Cum	33.60
88	Filling available excavated earth in trenches, lead up to 50m and lift up to 1.5m in all kind of soil excluding Watering and ramming. (CG PHED SOR Amendment 07/2022-23, It.No.18.23, Pg.No.52)	Cum	162.81
89	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 PHED SOR Amendment 07/2022-23, It.No.4.7, Pg.No.04)		
	400 mm dia.	Each	6.00
	300MM	Each	3.00
90	Providing and Laying including testing ductile PN 16 type iron flanged spigot conforming to IS: 9523/2000 having dimension as per table 24 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 PHED SOR Amendment 07/2022-23, It.No.4.9, Pg.No.05)		
	400 mm dia.	Each	6.00
	300MM	Each	5.00
91	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. (CG PHED SOR Amendment 07/2022-23, It.No.4.11, Pg.No.06)		
	450 mm dia.	Each	8.00
	200 mm dia.	Each	6.00

S.No.	PARTICULAR	UNIT	QTY.
92	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 PHED SOR Amendment 07/2022-23, It.No.4.13, Pg.No.07)		
	400 mm dia.	Each	6.00
	300MM	Each	4.00
93	Providing and Laying including testing Ductile Iron Double Socket 45° Bends conforming to IS: 9523/2000 having dimension as per table 16 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (CG PHED SOR Amendment 07/2022-23, It.No.4.15, Pg.No.07)		
	400 mm dia.	Each	8.00
	300MM	Each	6.00
94	Providing and Laying including testing Ductile Iron Double Socket 22.5° Bends conforming to IS: 9523/2000 having dimension as per table 17 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (CG PHED SOR Amendment 07/2022-23, It.No.4.17, Pg.No.08)		
	400 mm dia.	Each	10.00
	300MM	Each	6.00
95	Providing and Laying including testing Ductile Iron Double Socket 11.25° bends conforming to IS:9523/2000 having dimension as per table 18 of IS:9523/2000 in the following nominal diameter/ sizes with external bitumen coating and internal cement mortar lining. (CG PHED SOR Amendment 07/2022-23, It.No.4.19, Pg.No.09)		
	400 mm dia.	Each	10.00
	300MM	Each	8.00
96	Providing and Laying including testing Ductile Iron All socket Tees 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. (CG PHED SOR Amendment 07/2022-23, It.No.4.21, Pg.No.10)		
	300X200X200T	Each	1.00
97	Providing and Laying including testing Ductile Iron Double Socket Reducer 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. (CG PHED SOR Amendment 07/2022-23, It.No.4.25, Pg.No.13)		
	300X150R	Each	1.00

S.No.	PARTICULAR	UNIT	QTY.
98	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 PHED SOR Amendment 07/2022-23, It.No.4.41, Pg.No.18)		
	D.I. Sluice Valve (PN- 16)		
	400 mm dia.	Each	2.00
	300MM	Each	2.00
99	Providing & laying mechanically mixed cement concrete 20mm nominal size graded crushed stone excluding cost of centering & shuttering. (CG PHED SOR Amendment 07/2022-23, It.No.18.41.1.3, Pg.No.54)		
	For Road restoration (M-20)	Cum	106.00
100	Providing & laying mechanically mixed R.C.C. excluding centering & shuttering and reinforcement in foundation/plinth (20mm graded metal) (CG PHED SOR Amendment 07/2022-23, It.No.18.42.1, Pg.No.54)		
	For thrust block	Cum	38.35
101	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/c cost of binding wire and wastage. (CG PHED SOR Amendment 07/2022-23, It.No.18.44, Pg.No.54)		
	qty as per item no.18 (80 kg/cum)	Kg	2485.54
102	Construction of Rcc valve chamber with Rcc precast covers for valves. (100mm to 600mm dia.) (cost as per rate analysis enclosed)	each	2.00
103	Labour only for cutting following Ductile Iron pipes of any type and class. (CG PHED SOR Amendment 07/2022-23, It.No.19.4, Pg.No.60)		
	400 mm dia.	per cut	10.00
	300MM	per cut	8.00
104	Chamfering of CI/DI pipes of all type and classes to make suitable for tyton joints. (CG PHED SOR Amendment 07/2022-23, It.No.19.6, Pg.No.61)		
	400 mm dia.	each	10.00
	350 mm dia.	each	5.00