

RAJKOT MUNICIPAL CORPORATION

e - Tender No. **RMC/ENGG/WZ/23-24/**



Bid Documents

For

**PROVIDING AND LAYING PROPOSED SEWER NETWORK
NEAR GETCO CROSS ROAD OF RMC AREA IN WARD NO. 11
WITH HOUSE CONNECTION AND ROAD RESTORATION WORK
UNDER AMRUT 2.0,(RE-TENDER)**

**Volume-III
Price bid**



Milestone Dates for e-tendering is as under

1. Downloading of e-Tender documents	18-09--2023 To 09-10-2023 upto 17.00 Hrs.
2. Pre-bid meeting in the O/o Addl. City Engineer at WEST ZONE	26-09-2023 at 16:00 hrs
3. Online submission of e - Tender	09-10-2023 upto 18.00 Hrs.
4. Physical submission of EMD, Tender fee and other documents required as per Financial and Experience criteria by Reg Post. A. / Speed Post ONLY	11-10-2023 upto 18.00 Hrs.
5. Opening of online tender	12-10-2023 at 11.00 Hours onwards
6. Verification of submitted documents (EMD, e - Tender fee, etc.)	12-10-2023 at 11.00 Hours onwards
7. Agency to remain present in person along with original documents for verification	13-10-2023 between 11.00 to 12.00 Hours
8. Opening of Price Bid (If possible)	15-10-2023 at 11.00 Hours onwards
9. Bid Validity	180 Days
For further details, pre-qualification criteria etc. visit www.rmc.nprocure.com	

2023-24

CITY ENGINEER

**RAJKOT MUNICIPAL CORPORATION
SHRI HARISINHJI GOHIL BHAVAN
WEST ZONE OFFICE, 150' RING ROAD,
RAJKOT - 360005 (GUJARAT)**

PART-III
BILL OF QUANTITIES
(Attached in Separate Folder)

BID FORM (WITH PRICE)

(Bidders are required to fill up all blank spaces in this Bid Form)

CONTRACT No: RMC/ENGG/WZ/22-23/

The Commissioner
Rajkot Municipal Corporation
Dr. Ambedkar Bhavan
Dhebar Road
Rajkot

Dear Sir,

SUB. : PROVIDING AND LAYING PROPOSED SEWER NETWORK NEAR GETCO CROSS ROAD OF RMC AREA IN WARD NO. 11 WITH HOUSE CONNECTION AND ROAD RESTORATION WORK UNDER AMRUT 2.0

1. Having visited the site and examined the Bid Documents, Drawings, Conditions of Contract, Specifications, Schedules, Annexures, Preamble to Price Schedules, Price Schedules etc. including Addenda/Amendments to the above, for the execution of the above Contract, we the undersigned offer to carry out as given in Conditions of Contract and in conformity with the Drawings, Conditions of Contract, Specifications, Preamble to Price Schedules, Price Schedules, Annexures, Bidding Documents, including Addenda Nos. _____ (insert numbers) for (quoted online) %age below / above than the rates given in Price Schedule.
2. I / We agree that
 - (a) if we fail to provide required facilities to the Employer's representative or any other person/agency by the employer to perform on his behalf for carrying out the inspection and testing of materials and workmanship
or
 - (b) if we incorporate into the Works, materials before they are tested and approved by the Engineer's representative
or
 - (c) if we fail to deliver raw water of required quantity according to the conditions/stipulations of the Contract, the Engineer-in-charge will be at liberty to take any action including termination of Contract and impose at his absolute discretion any penalties, and/or reject the work.

3. We undertake, if our Bid is accepted, to complete and deliver the Works in accordance with the Contract within **12 months** of construction period from the date of Work Order issued to us by you.
4. We agree to abide by this Bid for a period of 180 Days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
5. In the event of our Bid being accepted, we agree to enter into a formal Contract Agreement with you within 10 days incorporating the conditions of Contract thereto annexed but until such agreement is prepared this Bid together with your written acceptance thereof shall constitute a binding Contract between us.
6. We agree, if our Bid is accepted, to furnish Performance Bond/Security in the forms and of value specified in the Conditions of Contract of a sum equivalent to 5% of the Contract price for due performance of the Contract.
7. We have independently considered the amounts of liquidated damages shown in Appendix to Bid and agree that they represent a fair estimate of the damages likely to be suffered by you in the event of the Work not being completed by us in time.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated _____ this _____ day of _____ 2023.

(Signature)

Company Seal

(Name of the person)

(Name of firm)

(In the capacity of)

Duly authorised to sign Bid for and on behalf of
(Fill in block capitals)

Witness

Signature _____

Name _____

Address _____

I/We have enclosed a DEMAND DRAFT / BANK GUARANTEE as an "**Earnest Money Deposit**", for the sum of **9,52,717/-** the full value of which is to be absolutely forfeited to the Employer should I/We fail to commence the works specified. Otherwise the said sum shall be retained, by the Employer as on account of such 'Security Deposit' as provided for in the aforesaid documents.

I/We agree not to employ Sub-contractors other than those that may be approved in accordance with conditions in the aforesaid documents.

I/We understand that you are not bound to accept the lowest or any tender which you may receive.

I/We shall refer all disputes arising out of or relating to the agreement to the arbitration in accordance with conditions of contract.

I/We am/are bound to execute the job if the work order is issued within **180 Days** from the date of opening of the tender.

I/We agree to pay the Government Income-Tax, CGST, SGST and other taxes prevailing from time to time on such items on which the same are levied and the rates quoted by me/us are inclusive of the same.

Yours faithfully,

Signature of Contractor

Date: _____

Address:

PREAMBLE TO PRICE SCHEDULES

Note on Schedule:

The bid is percentage rate bid for **PROVIDING AND LAYING PROPOSED SEWER NETWORK NEAR GETCO CROSS ROAD OF RMC AREA IN WARD NO. 11 WITH HOUSE CONNECTION AND ROAD RESTORATION WORK UNDER AMRUT 2.0**

1. The whole work is to be done under the supervision of RMC.
2. Before starting the work, the details survey has to be done by the contractor and shall have to prepare and submit Survey and Level drawings in soft copy (Auto Cad) and Hard copy, and has to mark permanent levels at all necessary locations for Reference, for which, no extra payment will be made by Rajkot Municipal Corporation. After permission / approval from the engineering in charge, the work will have to be executed accordingly on site.
3. The rates and prices shall be submitted in the formats given in the enclosed Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
4. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
5. In Price Schedule, bidder shall quote his percentage Equal/Above/Below for items listed in the schedule. Prices quoted in Schedule only will be considered for price evaluation & shall form a part of the Contract Agreement.
6. Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
7. The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, dewatering, etc. for the proper execution of works. The rates shall also be deemed to include any works and setting out that may be required to be carried out for laying out of all the works involved.
8. Where there is a discrepancy between the unit rates and the amount entered, in the price schedule the latter shall govern.
9. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.

10. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
11. The bidder shall interpret the data furnished and carry out any additional survey work, or investigation work required at his own cost.
12. The prices quoted shall also include the cost of materials utilized for testing.
13. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own cost. These accesses will be used by the other contractors working for RMC.
14. From each Running Account Bill, labour cess will be deducted as per norms.
15. The quoted rates should be inclusive of all taxes and duties.
16. The prices shall have to be quoted firm & fix including all the taxes & duties without any statutory variation. RMC will not consider any statutory variation as well as the price rise in the market and if any, those shall be on account of contractor.
17. The work contract tax will be borne by the agency.
18. Use of ready mix concrete may be permitted if it fulfils tender specifications.
19. No extra item or extra width will be paid due to excavating method or type of machinery.
20. For any type of license regarding labour, etc. has to be achieved by agency.
21. Appendix - P mentioned in tender is a sample format. The bidder shall furnish the details of concern tender and financial terms shall be certified by Chartered Accountant.
22. In Every running bill 0.25% amount shall be retained as extra security deposit if Drawings of work done are not submitted by agency.
23. As Road Restraining is the responsibility of work contract agency, in Every running bill 0.50% amount shall be retained as extra security deposit for purpose of Corrections for road restraining in case of settlement of surfaces of refilled trenches. These shall be released after Defect Liability Period.

24. This office Circular bearing No. RMC/C/329 dated 22-12-2012 and Order No. RMC/C/132 dated 10-06-2013 are uploaded in tender document. The Contractors quoting their rates Above/Below shall have to read, implement, and submit the same duly signed along with the will be documents to be submitted during physical submission.
25. In reference to the above Circular and Order cited at above, the Contractor firm who have quoted their rates for this work will be called in person for verification of original documents. The date and time for verification of original documents will be intimated to the Contractors.
26. The routes and levels shown in the maps are indicative and not final. There are possibilities of change in routes and levels at the time of execution of work and due to which the diameter of pipeline and depth of drainage line may increase or decrease. Under the circumstances, the contractor shall have to carry out the work accordingly at the approved rates without any extra cost. Rajkot Municipal Corporation will not entertain any dispute in this regard.
27. The contractor shall have to carry out the Sub-soil strata investigation at his own cost.
28. Flow Test shall be done in two stage:

Stage 1

Pipe line shall be laid by resting the pipe line on supports at joints. The flow test and The drains, manholes and all joints of pipes shall be made thoroughly sound and water tight and any joint which may be observed to be leaky shall be immediately corrected. Thus after satisfactory flow test sand bedding shall be fill pipe line after laying pipe line. The refilling of trench shall be carried out then after.

Stage 2

After total laying & refilling of trenches, flow test shall be carried out again for particular section of length as suggested by engineer in charge.

29. Wherever the sanction from Forest and State High Way (R & B) department is required that has to be procured and also any other sanction of any other Institute/Authority is required then contracting agency shall have to arrange itself i.e. whole liaison shall be on account of working agency. However, if required, RMC will recommend for the same wherever necessary. The expenditure incurred for this type sanctions will be reimbursed by RMC on submission of necessary documentary evidence like; Receipt, as proof.

30. Blasting may not be permitted in the areas having dense population or any other unsuitability.
31. Big machinery may not enter in the areas having narrow streets (3 to 4 Mtr. wide).
32. Kachcha houses shall not be get damaged. Considering this, manual labour work is more feasible in these types of areas.
33. The bidders are advised to visit the project area and get acquainted with the local condition as the said area is residential area with numbers of underground utility services like water supply pipe line, sullage water pipe line, gas pipeline, telephone/electric cable, KHALKuVAS etc, which requires to be maintained during the progress of work. The safety of the work is prime important factor and all the bidder should be very much vigilant for the same. Thus, there may be some locations where clear ROW or ROU may not be available due to certain reasons like TP Road open Issues, Permissions etc. If work of that much location is affected due to such reasons time limit may be extended considering that non-working period but in no case Price Escalation will be given for that extended period.
Thus, it is to be clear that to work within utility services is a part of this work. If utilities are affected, it shall be the responsibility of contractor to make same as it was as before. The expenditure and arrangement shall be bear by contractor.
34. In case of Extra Item, No "On" %age i.e. +ve % age Rate will be given but if there is Down %age i.e, -ve % age Rate that will be applied to that rate of that Extra Item.
35. Before procurement of Material the Quality Assurance Plan (QAP) shall be approved by RMC. QAP for approval shall be submitted in 3 Original copy duly signed and stamped by Manufacturer, PMC/TPI and Tenderer, The draft QAP has been attached herewith.
36. The contractor shall have to quote their rates excluding GST and other taxes and the Invoice with break-up of GST IS to be submitted accordingly, failing which, such amount will be deducted from the bill of the agency and deposited accordingly.

The contractor shall have to purchase the material required for this tender work, only from the supplier having registered GST Number. RMC will not be responsible to pay any amount towards GST if the material is purchased from the unregistered supplier not having GST Number.

37. The contractor shall be responsible for Railway Crossing, Highway crossing etc and the detailed design shall have to be provided by the contractor and carry out the same, for which, payment will be made as per norms.
38. The contractor shall have to obtain the approval from the concerned authorities for level crossing, Highway, Gas etc. However, Rajkot Municipal Corporation will extend its cooperation in obtaining the approval. The charges as per norms shall be paid by the agency and same will be reimbursed by Rajkot Municipal Corporation.
39. **Scope of Testing period:** During the testing period, agency will have to look after the maintenance and rectification of fault, if any. No extra payment will be made by RMC for this purpose.
40. e-Tender price:
The tender price shall include all materials, labor, tools and tackles, plant and machinery etc. necessary for the proper manufacture of pipes and for tests at the contractor's works, for insurance and for delivery to RMC's store or site of works indicated in the project area according to dispatch schedule and for laying.

The rates quoted by the contractor online in the given price bid (Pipe Supply + Labor work for laying jointing, testing & commissioning) shall cover everything necessary for the due and complete execution of the work according to the drawings and other conditions and stipulations of the contract including specifications or the evident intent and meaning of all or either of them or according to customary usage and for periodical and final inspection and test and proof of the work in every respect and for measuring, numbering or weighing the same, including setting out and laying or fixing in positions and the provision of all materials, power, tools, rammers, labour, tackle, platforms with proper lapped joints for scaffolding, ranging rods, straight edges, centering and boxing, wedges, moulds, templates, posts, straight rails, boning-staves, strutting, barriers, fencing, lighting, pumping apparatus, temporary arrangement for passage of traffic, access to premises and continuance of drainage, water supply and lighting (if interrupted by contractor's work), temporary sheds, painting, varnishing, polishing, establishments for efficient supervision and watching arrangements for the efficient supervisions of life and property and all requisite plant and machinery of every kind except only such matter and things as it may be distinctly stated herein which are to be supplied to the contractor free. A rate for any one description of work is to be held to include such items of other classes of works as are obviously necessary for its due completion and for these no

separate/specific charges will be admitted. The contractor shall keep every portion of the work clear of accumulation from time to time and shall leave every portion of the work clean, clear and perfect, at the conclusion of whole work at their own cost.

41. FDR or Bank Guarantee will not be acceptable towards Tender fee and Earnest Money Deposit.
42. Rajkot Municipal Corporation will engage PMC/TPI agency for pipe material inspection and testing at factory and to maintain the overall work supervision and quality control of the project. The PMC/TPI agency shall be from approved list of GUDM or as decided by the competent authority of RMC. All necessary charges of PMC/TPI agency is to be borne by the contractor. The PMC/TPI charges is 0.70 % of the actual amount of work, which will be deducted from the bill of the agency and will paid to the PMC/TPI agency by contractor. The cost of DPR for sewerage network is Rs. 32.00 Cr.
43. In case of damage to obstructing pipe line or other utilities is done by the agency then the rectification to the same and making it good shall have to be carried out by the agency at his own cost.
44. The contractor shall at his own cost fill up water in pipe line and given necessary hydraulic test section
45. Autocad drawings shall have to be provided in soft copy as well as hard copy, for which, decision of engineer-in-charge will be final and binding to the agency.

**CITY ENGINEER
Rajkot Municipal Corporation**

Signature of Contractor

Check List for submission of Documents

Tender Fee submitted as per Tender	Yes / No
Tender Earnest Money Deposit submitted as per Tender	Yes / No
Registration documents submitted as per tender requirement	Yes / No
Information regarding Capability etc. as per clause No. IT-12 (General Performance data) shall have to be submitted	Yes / No
All Appendixes shall have to be submitted physically duly filled	Yes / No
Declaration on Stamp paper of Rs.300/- regarding nowhere black listed / terminated / debarred	Yes / No
Financial Details:	
Turnover details submitted as per requirement	Yes / No
Working Capital as per requirement of tender is submitted	Yes / No
Valid Bank Solvency submitted	Yes / No
Validity of Bank Solvency	Date:
Experience Details:	
Details of Technical Staff and details of machineries submitted	Yes / No
Address proof submitted	Yes / No
Identity proof submitted	Yes / No
Fresh Declaration on Non-Judicial Stamp Paper regarding not black listed or Terminated or Debarred, is submitted	Yes / No
Professional Tax Receipt of current year	Yes / No

Note : Over and above, the agency shall also have to submit all other necessary documents as may be required for pre-qualification, failing which, the agency will be treated as Non-responsive and will be **DISQUALIFIED** and also the online price bid of such agency will not be opened.

Signature of contractor with seal

SCHEDULE – A- Deleted

Schedule showing a material to be supplied from Rajkot Municipal Corporation stores at free of cost for use in work contracted and to be executed

Name of Work:

PROVIDING AND LAYING PROPOSED SEWER NETWORK NEAR GETCO CROSS ROAD OF RMC AREA IN WARD NO. 11 WITH HOUSE CONNECTION AND ROAD RESTORATION WORK UNDER AMRUT 2.0

Sr.	Particulars	Qty.	Rate at which material will be charged to the contractor	Total Amount
1	NA			
			Total	
			Say	
Note No.1	The Contractor shall have to make his own arrangement for procuring the cement required for the work from open market. Cement shall be ordinary Portland cement confirming to IS 269. or IS 8112 Grade 43/53 of reputed make only. No mini-plant cement shall be allowed.			
Note No.2	The person or firm submitting the tender should see that the rates in the above schedule are filled up by the Engineer-in-charge for the issue of the form prior to submission of the tender.			
Note No.3	Material not included in "SCHEDULE – A" but required for the work shall be provided by the contractor and cost of such material shall be included in the respective tendered items by the contractor.			

**Asst. Engineer
Rajkot Muni. Corporation**

**Dy. Executive Engineer
Rajkot Muni. Corporation**

**City Engineer
Rajkot Muni. Corporation**

PRICE SCHEDULE

Rajkot Municipal Corporation Price Schedule - B

Name of work:

PROVIDING AND LAYING PROPOSED SEWER NETWORK NEAR GETCO CROSS ROAD OF RMC AREA IN WARD NO. 11 WITH HOUSE CONNECTION AND ROAD RESTORATION WORK UNDER AMRUT 2.0

Sr. No.	Component	Amount (Rs.)
1	PROVIDING AND LAYING PROP. SEWERAGE NETWORK CONNECT TO EXISTING SPS MUNJKA/ PROPOSED MUNJKA NETWORK AT WARD 11 OF RMC AREA	6,80,13,732.00
2	PIPE PUSHING WORK FOR PIPE PUSHING WORK FOR CROSSING 900 MM DIA RCC NP3 PIPE BY 1600 MM DIA RCC NP4 PIPE AT J/368 (RING ROAD)	42,61,506.00
3	ROAD RESTORATION WORK	45,88,060.00
4	HOUSE CONNECTION	1,84,08,415.00
	Total of (A)	9,52,71,713.00

**PROVIDING AND LAYING PROP. SEWERAGE NETWORK TO PROP. SEWERAGE
NETWORK CONNECT TO EXISTING SPS MUNJKA / PROPOSED MUNJKA NETWORK
AT WARD 11 OF RMC AREA**

Item No	Quantity	Description	Final Rate* in Rs	Unit	Amount
1	Excavation for pipe line trenches etc. for all with shoring and strutting if required as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. (Pipe & Manhole)				
1.1	0.0 to 1.50 m. depth				
1.1.1	32127.00	Excavation of Foundation in Soft Murrum and Hard Murrum, Soil or Sand	112.00	Cum	35,98,224.00
1.1.2	32127.00	Excavation of Foundation in Soft Rock and Hard Rock	267.50	Cu.m.	85,93,972.50
1.2	1.5 to 3.0 m. depth				
1.2.1	5805.00	Excavation of Foundation in Soft Murrum and Hard Murrum	123.00	Cu.m.	7,14,015.00
1.2.2	23220.00	Excavation of Foundation in Soft Rock and Hard Rock with Breaker / Blasting / Gann	283.50	Cu.m.	65,82,870.00
1.3	3.0 to 4.5 m. depth				
1.3.2	9202.00	Excavation of Foundation in Soft Rock and Hard Rock with Breaker / Blasting / Gann	292.00	Cu.m.	26,86,984.00
1.4	4.5 to 6.0 m. depth				
1.4.1	3013.00	Excavation of Foundation in Hard Rock with Breaker / Blasting / Gann	405.00	Cu.m.	12,20,265.00
1.5	6.0 to 7.5 m. depth				
1.5.1	636.00	Excavation of Foundation in Hard Rock with Breaker / Blasting / Gann	414.00	Cu.m.	2,63,304.00
2A	609.00	Providing and casting in situ mass cement concrete in grade M-10 (approx. corresp. to prop. 1 3:6) using granite quartzite trap metal of size 12 mm to 25 mm incl. consolidation curing etc. complete. ((Stoneware pipe with form work)	3972.00	Cu.M.	24,18,948.00
2B	Providing Bedding for RCC Pipe including ramming, watering, levelling, consolidating, grading etc. complete.				
a)	909.00	with selected excavated earth available near site	60.00	Cu.M.	54,540.00
b)	909.00	with Mururm brought from Outside including all lead	176.00	Cu.M.	1,59,984.00

Item No	Quantity	Description	Final Rate* in Rs	Unit	Amount
3	Providing and supplying ISI marked only Standard length Stoneware pipes in standard lengths of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. (IS - 651 / 1989) Class-AA				
3.1	2780.00	For 150 mm dia Stoneware pipes	179.00	RMT	4,97,620.00
3.2	7690.00	For 200 mm dia Stoneware pipes	277.00	RMT	21,30,130.00
4	Providing and supplying ISI Standard R.C.C. pipes(OPC) in standard lengths of following class and diameter suitable for either collar joints or rubber ring joints including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. (IS - 458/ 1989)(NP-3))				
	Note : One collar should be supplied with each full length plain ended RCC pipe, cost included in rates below. One rubber ring should be supplied with each full length socketed pipe, cost included in rates below.				
	RCC NP3				
4.1	2890.00	250 mm pipe dia.	522.00	RMT	15,08,580.00
4.2	1310.00	300 mm pipe dia.	747.00	RMT	9,78,570.00
4.3	1240.00	450 mm pipe dia.	1336.00	RMT	16,56,640.00
4.4	2820.00	600 mm pipe dia.	1909.00	RMT	53,83,380.00
4.5	195.00	900 mm pipe dia.	3537.00	RMT	6,89,715.00
5	Lowering, laying and jointing Stoneware pipes in C.M. 1:1 of following diameters in proper position grade and alignment as directed by Engineer-in-charge including labour, giving necessary testing etc., complete including cost of jointing materials including all the taxes, duties, freight, insurance etc. complete.				
5.1	2780.00	150 mm pipe dia.	88.00	RMT	2,44,640.00
5.2	7690.00	200 mm pipe dia.	113.00	RMT	8,68,970.00
6	Lowering, laying and jointing R. C. C. pipes of following diameters in proper position, grade and alignment at all level as directed by Engineer-in-charge including conveyance from stores to site of work, labour, giving hydraulic testing as per ISI code.				
6.1	2890.00	250 mm pipe dia.	97.00	RMT	2,80,330.00
6.2	1310.00	300 mm pipe dia.	119.00	RMT	1,55,890.00
6.3	1240.00	450 mm pipe dia.	171.00	RMT	2,12,040.00
6.4	2820.00	600 mm pipe dia.	228.00	RMT	6,42,960.00
6.5	195.00	900 mm pipe dia.	340.00	RMT	66,300.00
7	Sewer Manholes				
	Providing and constructing Sewer Machinehole as per the type design in brick masonry in C.M. 1 : 5 and inside and outside 20 mm thick plastering in C.M. 1:3 necessary 100 mm coping with reinforcement in R.C.C. M 200, providing and fixing P.V.C steps and fixing Machinehole frame and covers (But excluding supply of Machinehole frame and covers) over Machinehole etc. complete, providing and fixing safety chain wherever necessary as per the stipulations in the type design complete as per latest CPHEEO manual. (excl. excavation)				

Item No	Quantity	Description	Final Rate* in Rs	Unit	Amount
A)	Machinehole type "A" circular type having inside diameter of 1200 mm for depth upto 1.5 m depth (For 150 mm to 500 mm dia sewer)				
(i)	114.00	Machinehole type "A" as above but upto 1.0 m depth.	12179.00	No.	13,88,406.00
(ii)	23.00	Extra depth beyond 1.0 mt. but upto 1.5 mt. depth for "A" type Machinehole above.	6628.00	Rmt.	1,52,444.00
B)	Machinehole type "B" circular type having inside diameter of 1500 mm and for depth from 1.5 m to 4.0 mt. (For 150 mm to 600 mm dia sewer)				
(i)	469.00	Machinehole type "B" as above but upto 1.5 m depth	21116.00	No.	99,03,404.00
(ii)	348.00	Extra depth beyond 1.5 mt. but upto 4.0 mt. depth for type "B" Machinehole above.	12313.00	Rmt.	42,84,924.00
C)	Machinehole type "C" circular type having inside diameter of 1500 mm and for depth beyond 4.0 m to 6.0 mt. (For 150 mm to 1800 mm dia sewer)				
(i)	33.00	Machinehole type "C" as above but upto 4.0 m depth	52908.00	No.	17,45,964.00
(ii)	25.00	Extra depth beyond 4.0 mt. but upto 6.0 mt. depth for for type "C" Machinehole above.	18786.00	Rmt.	4,69,650.00
D)	Machinehole type "D1" circular type having inside diameter of 1500 mm and for depth beyond 6.0 m to 10.0 mt. (For 150 mm to 500 mm dia sewer)				
(i)	10.00	Machinehole type "D1" as above but up to 6.0 M depth.	107585.32	No.	10,75,853.20
(ii)	4.00	Extra depth beyond 6.0 M and up to 10.0 M depth for type "D1" manhole above.	26089.80	Rmt.	1,04,359.20
E)	Machinehole type "D2" circular type having inside diameter of minimum 1500 mm and for depth beyond 6.0 m to 10 m (for 600 mm to 1000 mm dia sewers)				
(i)	7.00	Machinehole type "D2" as above but up to 6.0 M depth.	105985.24	No.	7,41,896.68
(ii)	3.24	Extra depth beyond 6.0 M and up to 10.0 M depth for type "D2" manhole above.	26102.78	Rmt.	84,668.72
F)	Machinehole type "D3" circular type having inside diameter of minimum 1900 mm and for depth beyond 6.0 m to 10 m (for 1100 mm to 1800 mm dia. sewes)				
(i)	1.00	Machinehole type "D3" as above but up to 6.0 M depth.	109142.00	No.	1,09,142.00

Item No	Quantity	Description	Final Rate* in Rs	Unit	Amount
(ii)	1.00	Extra depth beyond 6.0 M and up to 10.0 M depth for type "D3" manhole above.	26015.00	Rmt.	26,015.00
G)	Scraper manhole type "SI" rectangular type for 600 mm dia to 1200 mm dia sewer pipes and for depth 2.5 m to 9.0 m.				
(i)	21.00	Scraper manhole type "SI" as above but upto 2.5 m depth.	52319.00	No.	10,98,699.00
(ii)	25.00	Extra depth beyond 2.51 m and upto 9.0 m depth for type "SI" scraper manhole above.	31907.00	Rmt.	7,97,675.00
8	Providing, supplying 600 mm dia RCC precast (circular) manhole frame and cover as per IS standard of 10 Tonne and 20 Tonne Capacity etc. complete.				
(i)	262.00	10 Tonne Capacity	1541.00	No.	4,03,742.00
(ii)	393.00	20 Tonne Capacity	2306.00	No.	9,06,258.00
9	94302.0	Refilling the pipeline trenches & Manhole incl. ramming, watering, consolidating disposal of surplus stuff as directed within a radius of 3 km.	22.00	Cu.m.	20,74,644.00
10	Drilling of 300 mm dia Horizontal borehole for watermain pipeline crossing under the road incl in all strata with required length incl. fixing of 250 mm dia RCC Casing pipe with pushing etc complete various size of pipe for 150 mm dia RCC Pipe				
	45.00	Without Water main & with MS Casing Pipe-250 thick 5 mm (J/190)	3468.00	Rmt.	1,56,060.00
11	Drilling of 500 mm dia Horizontal borehole for watermain pipeline crossing under the road incl in all strata with required length incl. fixing of 400 mm dia RCC Casing pipe with pushing etc complete various size of pipe for 200 mm dia RCC Pipe				
	45.00	Without Water main & with MS Casing Pipe- 400 thick 6 mm (Rider Line Crossing _J/91)	7974.00	Rmt.	3,58,830.00
12	Drilling of 600 mm dia Horizontal borehole for watermain pipeline crossing under the road incl in all strata with required length incl. fixing of 500 mm dia RCC Casing pipe with pushing etc complete various size of pipe for 250 mm dia RCC Pipe				
	45.00	Without Water main & with MS Casing Pipe 500 thick 6 (Rider line Ring Road)	11605.00	Rmt.	5,22,225.00
Total Amount					6,80,13,732.00

**Pipe Pushing work for Pipe Pushing work for Crossing 900 mm dia RCC NP3 pipe
by 1600 mm dia RCC NP4 pipe at J/368 (Ring Road)**

Item No.	Description	Qty.	Final Rate * in Rs.	Unit	Amount in Rs.
01	<p>Laying 1.6 m. dia. RCC NP4 pipe (by Pushing method) of required length including open excavation for thrust bed necessary form work, concreting, curing, vibrating , pushing etc. complete as per contractor's own design approved by competent authority based on approved GAD by competent authority.</p> <p>The item includes</p> <p>(a) Providing and laying M-25 grade for cast in situ thrust bed and thrust wall with necessary excavation with shoring and strutting, formwork, curing, vibrating as per contractor's own design approved by Authority.</p> <p>(b) Providing and fixing TMT-Fe-500 bars including thrust bed and thrust wall including supplying, cleaning, cutting, bending and placing in position, lapping, binding with 16 SWG soft iron wire irrespective of locations and levels</p> <p>(c) Providing front shield, intermediate shield, jointing, jacking rigs, sliding channels spacers etc. All the structural steel used except intermediate shields will be ownership of contractor after pushing work is completed.</p> <p>(d) Pushing with hydraulic jack without disturbance to pavement including all necessary excavation for thrust bed and thrust wall, necessary shoring and strutting required, necessary dewatering required if any, excavation within the Pipe with all necessary refilling upto ground level after pushing work completed including carting of extra earth upto a lead of 5 Kms. This also includes necessary labour cost for pushing and including necessary cost of hydraulic pipe and oil for hydraulic jacks including necessary depreciation cost of jack.</p> <p>(e) Applying 2 coats of approved quality epoxy painting on precast units after casting work completed including necessary groutings with cement between two precast units after pushing work is completed.</p>	45.00	49920.00	Rmt.	2246400.00
02	<p>Excavation for trenches with shoring & strutting if required as per required gradient and line including all safety provision using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lift and strata as specified. In all sorts of Soil and soft murrum.</p> <p>a) 0.0 to 1.5 m.</p> <p>Excavation of Foundation in Soft Murrum and Hard Murrum, Soil or Sand</p>	21.50	112.00	m ³	2408.00

Item No.	Description	Qty.	Final Rate * in Rs.	Unit	Amount in Rs.
03	Excavation of Foundation in Soft Rock and Hard Rock	21.50	267.50	m ³	5751.25
	b) 1.5 to 3.0 m. Excavation of Foundation in Soft Murrum and Hard Murrum, Soil or Sand	8.60	123.00	m ³	1057.80
	Excavation of Foundation in Soft Rock and Hard Rock	34.40	283.50	m ³	9752.40
	c) 3.0 to 4.5 m. Excavation of Foundation in Soft Rock and Hard Rock with Breaker / Blasting / Gann	40.00	292.00	m ³	11680.00
	Construction of chambers built in RCC M30 with OPC cement with TMT Fe-500 reinforcement, PCC150 mm thick in M 15, RCC M30 for wall, base slab and top slab, including formwork etc. complete. Concrete work should be fair finish.a) PCC (M-15)	5.00	4732.00	m ³	23660.00
	b)RCC (M-30) i) Top Slab	9.00	8213.00	m ³	73917.00
	ii) Bottom Slab	9.00	8213.00	m ³	73917.00
	iii) Wall	29.00	8083.00	m ³	234407.00
	c) Reinforcement TMT Fe-500	6.00	77504.00	MT	465024.00
	04 Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand).	90.00	101.25	m ²	9112.50
05	Providing and laying cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing with a floating of neat cement etc. complete laid in one layer finished including necessary curing and with ordinary portland cement. 40 mm thick.	33.00	163.13	m ²	5383.13
06	Providing, supplying 600 mm dia RCC precast (circular) manhole frame and cover as per IS standard of 20 Tonne Capacity etc. complete. 20 Tonne Capacity	2.00	2306.00	No.	4612.00
07	Providing and fixing water tight construction or expansion joints 150 mm. dia. Wide thin ribbed PVC	17.00	330.00	Rmt	5610.00

Item No.	Description	Qty.	Final Rate * in Rs.	Unit	Amount in Rs.
08	Excavation in bituminous road as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lifts as specified.	2.40	251.00	m ³	602.40
09	Manufacturing, testing, supplying, loading, transporting to worksite, unloading RCC pipe in OPC Cement of following class with Socket and spigot joints as per IS 458 -2003 including EPDM Rubber ring as per IS 5382-1985 etc. comp. As Directed by Engineering in charge. RCC NP4 Pipe (with OPC Cement) 1600 mm dia.	45.00	17546.00	Rmt.	789570.00
10	Providing and supplying ISI Standard R.C.C. pipes(OPC) in standard lengths of following class and diameter suitable for either collar joints or rubber ring joints including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. (IS - 458/ 1989)Note : One collar should be supplied with each full length plain ended RCC pipe, cost included in rates below. One rubber ring should be supplied with each full length socketed pipe, cost included in rates below.RCC NP3 Pipe (with OPC Cement)900 mm dia.	45.00	6537.00	Rmt.	294165.00
11	Refilling the pipeline trenches incl. ramming, watering, consolidating desposal of surplus stuff as directed within a radius of 3 km.	63.00	22.00	m ³	1386.00
12	Providing and fixing plastic moulded reinforced steps with 10 mm TOR steel bar with plastic polyproclene (P.P.) material (vergin)etc complete.	30.00	103.00	No.	3090.00
			Total Rs.		42,61,506.00

**PROVIDING AND LAYING PROP. SEWERAGE NETWORK CONNECT TO EXISTING
SPS MUNJKA/ PROPOSED MUNJKA NETWORK AT WARD 11 OF RMC AREA**

Sr No.	Quantity	Detail	Rate	Unit	Total
			Rupees		Rupees
1	14405.99	Excavation for Road work including bitumenus surface upto 20 cm depth Note: For addl. depth @ every 5 cm rate will be increased Rs. 0.50 per sq. mtr. upto addl. depth of 45 cm For depth above 45 cm, the rate for the excavation will be given on CuM basis .	12.00	Sqm	1,72,871.85
2	14405.99	Excavation for addistional 20cm depth	3.50	Sqm	50,420.95
3	3313.37	Supply & Laying of Black Trap Metal / Rubble	573.00	Cum	18,98,561.01
4	2160.89	Supply & Laying of Field Metal (4-10 cm) Size	530.00	Cum	11,45,271.70
5	1080.44	Supply & Spreding Soft Murrum	240.00	Cum	2,59,305.60
6	1080.44	Supply & Spreding Hard Murrum	263.00	Cum	2,84,155.72
7	7202.99	Removing Surplus and disposing it with in city limit including spreading as directed by Engineer in-charge up to 15 km (with carting)	77.94	Cum	5,61,383.03
8	28811.97	Rolling work with Roller 8-10 Ton capacity over metalling murrum for soling or single layer arriving proper compaction (with watering)	7.50	Sqm	2,16,089.77
				Total	45,88,059.63
				Say	45,88,060.00

**PROVIDING SEWERAGE HOUSE CONNECTION FOR PROVIDING AND LAYING
SEWERAGE NETWORK CONNECT TO EXISTING SPS MUNJKA/ PROPOSED MUNJKA
NETWORK AT WARD 11 OF RMC AREA**

Item No	Quantity	Item	Final Rate* in Rs	Per	Amount (Rs.)
1	Excavation for sewer line trenches, manholes incl. All safety provisions using site rails etc. including refilling the trenches & stacking the excavated stuff up to a lead of 90mt as directed. (For Pipeline)				
1.1	0.0 to 1.5 m. depth				
1.1.1	6524.00	Excavation of Foundation in Soft Murrum and Hard Murrum, Soil or Sand	112.00	Cu.m.	7,30,688.00
1.1.2	1631.00	Excavation of Foundation in Soft Rock and Hard Rock	267.50	Cu.m.	4,36,292.50
2	692.00	Providing and casting in situ mass cement concrete in grade M-10 (approx. corresp. to prop. 1 3:6) using granite quartzite trap metal of size 12 mm to 25 mm incl. consolidation curing etc. complete. ((Stoneware pipe without form work)	3662.00	Cu.m.	25,34,104.00
3	Providing and supplying ISI marked only Standard length Stoneware pipes in standard lengths of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. (IS - 651 / 1989) Class-AA				
	13590.00	For 100 mm dia Stoneware pipes	124.00	Rmt.	16,85,160.00
4	113.00	A1 Type Manhole upto 1 m Depth completed (without frame and cover) (5 % of total HC)	8497.00	Nos.	9,60,161.00
5	House connection chamber following Avg. depth with Brick Masonry in C M (1:3), Bottom PCC in CC (1:3:6), Benching in CC (1.2:4), top Coping in CC M -25 Grade Concrete.				
(a)	1291.00	House connection chamber as per type design (Depth Above 0.60 mt.)	4573.00	Nos.	59,03,743.00
(b)	646.00	House connection chamber as per type design (Depth upto 0.60 mt)	3627.00	Nos.	23,43,042.00
(c)	215.00	House connection chamber as per type design (Depth upto 0.45 mt)	2663.00	Nos.	5,72,545.00

Item No	Quantity	Item	Final Rate* in Rs	Per	Amount (Rs.)
6	7356.00	Refilling the pipeline trenches & Manhole incl. ramming, watering, consolidating desposal of surplus stuff as directed within a radius of 3 km.	22.00	Cu.m.	1,61,832.00
7	2152.00	Providing, supplying 600 mm dia RCC precast (circular) manhole frame and cover as per IS standard of 5 Tonne Capacity etc. complete.	1300.00	1 Pair	27,97,600.00
8	113.00	Providing, supplying 600 mm dia RCC precast (circular) manhole frame and cover as per IS standard of 10 Tonne Capacity etc. complete.	1541.00	1 Pair	174,133.00
9	164.00	Excavation in bituminous road as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lifts as specified.	251.00	Cu.m.	41,164.00
10	906.00	Making of hole in manhole with repairing of wall thickness upto 0.60 mtr.	75.00	Nos.	67,950.00
				Total	1,84,08,414.50
				Say	1,84,08,415.00

Addl./Asst. Engineer
R.M.C.

Dy. Ex. Engineer
R.M.C.

CITY ENGINEER
R.M.C.

I/We agree to carry out the above said work at (to be quoted online) % Equal / above / below on the tendered rates shown in Schedule.

Signature of Contractor