

Name of Work - Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I –
Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations
by pulling / pushing / jacking method (Trenchless)

Contract No. CNT/SEW/JNNURM/141/2013-14

CHECK LIST FOR THE GUIDANCE OF THE CONTRACTOR

I	The Tender schedule for the above work consists of 22 pages as detailed below:	
	(i) Checklist for the guidance of the contractors and bonus clauses	Page – 1 to 3
	(ii) Notice Inviting Tender	Page 4
	(iii) Special Instructions to Bidders for e-Bid Submission	Page – 5 - 7
	(iv) Letter of Tender 2 pages	Page - 8 & 9
	(v) Price schedule	Page - 10 -11
	(vi) Work schedule containing details of Work	Page - 12
	(vii) Mile stone	Page - 13
	(viii) Additional Information to be furnished by the Bidder	Page - 14
	(ix) Special conditions of contract	Page - 15-17
	(x) Instructions and Specifications	Page - 18 - 19
	(xi) Safety precautions	Page 20
	(xii) Drawing – 1 No.	Page 21-22
II	1	The total number of items in the work schedule - 2 Nos. The Departmental value works out to Rs. 11,93,200/-
	2.	Tenderers are requested to sign all pages in the tender schedule and must sign letter of tender. Tenders which do not have the Signature of the Tenderer in letter of tender will be rejected. Tenderers are also requested to furnish the Notarised copies of the certificate towards satisfying the Eligibility / Qualification criteria.
	3.	Bidders are requested to verify the number of pages in the work schedule and number of items in the work schedule. Any clarification and further information required may be obtained from the Office of the Contracts and Monitoring wing on any working day.
	4.	The present tender document contains priced work schedule. The tenderers are requested to quote the percentage variation over the departmental value in words and figures in any one of the forms in price schedule. If there is any discrepancy between words and figures, the lower among the words and figures will be taken into account. All entries should be made legibly in ink. Writing the entries first in pencil and later over writing in ink should be avoided and also over writing the corrections may be avoided. Corrections if any should be made by neatly scoring out the unwanted matter and rewriting legibly. Every such correction should be attested by the full signature of the tenderer.

Signature of Tenderer with Seal

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5.	<p>Eligibility : To qualify for award of the contract, each bidder in its name should have performed / executed the following, during the period from 01.04.2008 to 31.03.2013 as detailed below :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No.</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Minimum required qualification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Annual financial turn over achieved in any one financial year during 2008 - 2009 to 2012 - 2013 not less than the amount given (Rs. in lakh)</td> <td style="text-align: center;">12.00</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Satisfactorily completed any single Railway / Highway Crossing Work by using pipe pulling / jacking / pushing method of value not less than the amount (Rs. in lakh)</td> <td style="text-align: center;">4.80</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Should have successfully supplied and laid not less than 200mm dia. MS / RCC encasing pipe for Railway / Highway Crossing Work adopting trenchless method to a minimum length in any single work (length in metre)</td> <td style="text-align: center;">8.00</td> </tr> </tbody> </table> <p>Note: If the performance of the tenderer in the works awarded earlier is found to be poor subsequent to opening of this tender or during evaluation of this tender, his/their tenders will not be considered for evaluation and will be treated as non-responsive.</p> <ol style="list-style-type: none"> 1. The performance certificate furnished by the bidder towards satisfying the qualification criteria is to be issued by an Engineer in charge, not below the rank of an Executive Engineer. 2. All the credentials furnished by the bidder towards satisfying the qualification criteria shall be duly certified by a “Notary Public” and the certified credentials should have office seal with the signature or the initial of the bidder or their authorized signatory. 3. The credentials to meet the qualification criteria shall be from the client / Employer. No Self-certification will be accepted. 4. The tender of tenderers who does not fulfill the above will be treated as non-responsive. The tender received from ineligible contractors will be treated as non-responsive. 5. However the successful tenderer who are not the registered contractor of the Board will have to get himself registered in the Board in the appropriate class. 6. If at any circumstances, prior to finalization of the tender, if it is brought to the knowledge of the Board, that the contractor is banned / black listed their tender will be treated as non-responsive. 7. The tenderer are requested to read the Standard tender document from the Office of the Contracts wing. The contents of Standard Tender document is binding along with the conditions in this tender schedule on the tenderer. 		Sl. No.	Description	Minimum required qualification	1.	Annual financial turn over achieved in any one financial year during 2008 - 2009 to 2012 - 2013 not less than the amount given (Rs. in lakh)	12.00	2.	Satisfactorily completed any single Railway / Highway Crossing Work by using pipe pulling / jacking / pushing method of value not less than the amount (Rs. in lakh)	4.80	3	Should have successfully supplied and laid not less than 200mm dia. MS / RCC encasing pipe for Railway / Highway Crossing Work adopting trenchless method to a minimum length in any single work (length in metre)	8.00
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Contract No. CNT/SEW/JNNURM/141/2013-14

6	EMD in the form of Demand Draft or Banker's Cheque or Pay Order drawn from Nationalized / Scheduled Bank / TNSC Bank in favour of CMWSS Board. Cash, cheque and Bank Guarantee will not be accepted towards Earnest Money Deposit. The tender submitted without the EMD in the form and manner as mentioned above shall be summarily rejected.
7	<u>SECURITY DEPOSIT</u> Security Deposit will be collected from the successful Tenderer in the following form and manner within 14 days from the date of receipt of work order: Certified cheque/Bank Draft or Pay Order in favour of CMWSS Board payable at Chennai.
b)	The value of Security Deposit will be as follows
i)	for tenders with any plus percentage and upto (-)5% over departmental value – 2% of the contract value.
ii)	for tenders between (-) 5% to (-)15% over departmental value -- 4% of the contract value.
iii)	for tenders, above (-)15% over departmental value --- 5% of the contract value.
8	Milestone details for completion of works and details of penalty for the non-completion of work are furnished in the Page No. 13 . Tenderers are requested to take note of the details. The above details will be incorporated in the contract documents while executing agreement.
9	All duties, taxes and other levies payable by the contractor under the contract or for any other cause shall be included in the percentage quoted as submitted by the bidder. Any statutory variations in duties/taxes, which take effect from a date subsequent to the due date for receipt of tender, shall be to CMWSS Board's Account.
10.	<u>Tender Validity</u> Tenders shall remain valid for a period of not less than ninety days (90 days) after the due date for bid submission. A tender valid for a shorter period shall be rejected by the Employer as non-responsive.
11.	Tenders with conditions are liable for rejection
12.	The defects liability period is as follows: (a) For Pipe line Works - Five Years (b) For Civil Works - Five Years (c) For Electrical & Mechanical - Three Years

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CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD
NO.1, PUMPING STATION ROAD, CHINTADRI PET, CHENNAI-600 002.

NOTICE INVITING TENDER
LOCAL COMPETITIVE BIDDING

Sealed tenders are invited from the eligible tenderers for the following work:

Sl. No	Name of Work and Contract No.	Due Date for submission of tenders	Approximate value of Tender Rs/ Lakh	E.M.D. in Rs.	Tender schedule available From - To	Eligibility	Contract Period
1.	Providing Comprehensive Sewerage Scheme to Maduravoyal - Package I – Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations by pulling / pushing / jacking method (Trenchless) CNT/SEW/JNNURM/141 /2013-14	10.07.2013 Upto 03.00 PM	11.93	12,000/-	20.06.2013 To 09.07.2013	As per Tender Schedule	3 months
2.	Date & time for opening of tenders	After 3.00 PM on 10.07.2013 If the due date happens to be holiday, the tender will be received and opened on the next working day.					
3.	Availability of Tender Schedule in person	Information & Facilitation Officer, CMWSS Board, No.1, Pumping Station Road, Chintadripet, Chennai-600002, (Telephone: 044-28451300, Extn. 227)					
4.	Through Website	www.chennaietrowater.tn.nic.in & www.tenders.tn.gov.in The bid document can be freely downloaded. The downloaded document should be properly bounded and submitted for tendering along with necessary enclosures.					
5.	Cost of Tender Schedule	Free of cost. The document will also be sent by surface mail on an extra advance payment of Rs.500/- per set.					
6.	Address for information and clarifications and for receipt of tenders	Office of Superintending Engineer, Contracts & Monitoring, 4 th Floor, CMWSS Board, No.1, Pumping Station Road, Chintadripet Chennai – 600 002 Phone No. 044-2845 1300, Extn. 253 FAX : 044-2845 4336 Email: secm@chennaietrowater.com					
7.	e-bid submission & portal	Permitted through portal www.tntenders.gov.in					

SUPERINTENDING ENGINEER
(CONTRACTS & MONITORING)

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Contract No. CNT/SEW/JNNURM/141/2013-14

SPECIAL INSTRUCTIONS TO BIDDERS FOR E-BID SUBMISSION

The above tender notice is also available on the web site www.tntenders.gov.in. This site permits downloading of the tender documents at free of cost. The intending tenderers may visit this site and download the tender document at free of cost and use it for tender submission.

The tenderer is also permitted to upload the tender on the web site using the e-token.

The following list of items is to be uploaded by the tenderer (or) bidder within the date & time of submission of bids.

1. Earnest Money Deposit

Scanned copy of the Demand Draft/ Pay Order / Banker's Cheque in the acceptable manner as mentioned in the tender schedule.

2. Letter of Tender: Should be signed & the scanned copy of the Letter of Tender, along with the relevant documents in PDF format as one file.

The originals for the above (Item No. 1&2) should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission date & time for the tender.

3. Schedule of Works / Bill of Quantities: The Bidder has to fill only the rates in figures in the columns provided in Bill of Quantities in excel form and uploaded as boq.xls file. The same file may also be converted into pdf and upload.

The Digital Signature Certificate/ e- token may be obtained from one of the authorised Digital Certifying Authorities such as SIFY / SCS (TCS) / nCode, at the risk and cost of the bidder.

During e-submission of tenders, the following special cares are to be taken:

- 1) Bidder should do the registration in the tender site using the option available. Then the Digital Signature registration has to be done with the e-token, after logging into the site.
- 2) Bidder then login to the site thro' the secured log in by giving the password of the e-token & then the user id/ password chosen during registration.
- 3) The e-token that is registered should be used by the bidder and should not be misused by others.
- 4) After getting the tender schedules, the Bidder should go thro' them carefully and then submit the documents as asked, otherwise, the bid will be rejected.

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- 5) If there are any clarifications, this may be obtained online thro' the tender site, or thro' the contact details. Bidder should take into account of the corrigendum published before submitting the bids online.
- 6) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender schedule and they should be in PDF format. If there is more than one document, they can be clubbed together.
- 7) Bidder should get ready the EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission date & time for the tender.
- 8) The bidder read the terms & conditions and accepts the same to proceed further to submit the bids.
- 9) The bidder has to select the payment option as offline to pay the fee & EMD as applicable.
- 10) The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the bid submitted will not be acceptable.
- 11) The rates / percentage offered details have to be entered separately against the specified place in the downloaded spread sheet file (xls) and should be submitted as boq.xls file during the e-bid submission.
- 12) The bidders are requested to enter the individual rates offered in the boq.xls file considering all aspects inclusive of any rebates, etc. No separate rebate or discount should be entered at the end of BOQ. The uploaded boq.xls will not be available for subsequent modification.
- 13) Resubmission/modification allowed. The latest bid submission will supersede the earlier submission. However, the resubmission/modification bid should reach before the deadline of submission.
- 14) The tendering system will give a successful bid updating message after uploading all the bid documents submitted & then a bid summary will be shown with the bid number & the date & time of submission of the bid with all other relevant details. The documents submitted by the bidders will be digitally signed with the e-token of the bidder and then submitted
- 15) The bid summary has to be printed and kept as an acknowledgement as a token of the submission of the bid.
- 16) The bid summary will act as a proof of bid submission for a tender floated and will also act as an entry point to participate in the bid opening date.

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Contract No. CNT/SEW/JNNURM/141/2013-14

- 17) The bidder may submit the bid documents either by online mode through the site (<http://tntenders.gov.in>) or by manual mode to the department. If a bidder submits the bid, both online and in manual form, only the online bid will be acceptable.
- 18) For any clarifications with the TIA, the bid number can be used as a reference.
- 19) Bidder should log into the site well in advance for bid submission so that he submits the bid in time i.e. on or before the bid submission time. If there is any delay, due to other issues, bidder only is responsible.
- 20) Each document to be uploaded thro' online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced thro' zip and the same can be uploaded. However if the file size is less than 1 MB the transaction uploading time will be very fast.
- 21) The time settings fixed in the server side & displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.
- 22) All the data being entered by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission & not be viewable by any one until the time of bid opening. Overall, the submitted tender documents become readable only after the tender opening by the authorized individual.
For any other queries, the bidders are asked to contact thro'

Mail: secm@chennaietrowater.com

Phone no.: 044-28451300-320, Extn. 209 or 253 well in advance

This Department will not be held responsible for any sort of delay or the difficulty faced in the e-bid submission of tenders online by the bidders.

SUPERINTENDING ENGINEER(C&M)

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LETTER OF TENDER

To be delivered to the Superintending Engineer, C&M Chennai Metropolitan Water
Supply and Sewerage Board at or before **3.00 P.M. on 10.07.2013**

To
The Managing Director
Chennai Metropolitan Water Supply & Sewerage Board
Chennai- 600 002

Sir,

I/We the undersigned do hereby tender and undertake to perform, provide and execute all the works, materials matters and things described or mentioned in the Schedule (Bill of quantities) hereto annexed and the specifications thereto and drawings therein referred to (which have been produced to and carefully examined by me/us) in strict accordance with and under and subject to the terms, provisions and conditions set forth or mentioned in the said Schedule (Bills of Quantities) specifications and the drawings therein referred to, at the rates given and as stated in the Bills of quantities.

I/We herewith enclose Demand Draft/ Bankers Cheque/ Pay Order No..... dated as a guarantee for the due fulfillment of my/our tender, and if successful, undertake and agree to forward to the Board within fourteen days after the notification of the acceptance by the Board of this tender has been received by me/us, the sum as demanded in the Form and manner required as security for the due fulfillment of my/our contract.

I/we undertake and agree that I/We will not withdraw this tender during the period that will be required for intimation, acceptance or non/acceptance as stipulated in the Tender or during such extended period as agreed to by me/us, such period to date from the last date by which tenders are due to be submitted to the Board and if I/We do so withdraw, I/We shall forfeit the Earnest Money Deposit to the Board.

I/We further undertake to produce the Income-tax Clearance Certificate and the certificate and the Sales Tax Verification Certificate from the Commercial Tax Department of this State and agree to execute at my/our cost the agreement attached and to sign the plans therein referred to within 14 days after the notification of the acceptance of my/our tender has been received by me/us. In the event of my/our failing to make the Security Deposit or to execute the agreement in the said manner and sign the plans within the time specified for the purpose, the sum of **Rs. 12,000/-** accompanying this tender shall be forfeited to the Board and this concluded contract shall in such case be considered, as having been cancelled or terminated and you may thereupon at such time or times, in such manner and on such terms as you may think fit, arrange either departmentally or by any other person or persons to carry out the works and provide, execute and do all works, materials, matters and things described or mentioned herein and I/We agree to be liable irrespective of the forfeiture aforesaid for all damages, losses, costs, charges and expenses arising from or by reason of such failure and arrangements.

Signature of Tenderer with Seal

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I / We undertake to assume full responsibility for the stability and soundness of the Works/structures that will be executed by me/us as per this contract.

I/We also undertake to do all extra or varied works which may be ordered as part of this contract upon the terms provided for in the conditions and specifications. The tenders shall be valid for a period of 90 days from the next day of last date fixed for receipt of tenders .In case my/our tender for the work of **“Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I – Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations by pulling / pushing / jacking method (Trenchless) ”** is accepted, I/We agree and guarantee to commence the said works within a period of seven days from the date and complete the entire work within the stipulated period of **3 (Three) Months** from the date on which the work order received by me/us. I/We also agree that time is the essence of contract. I/We have actually inspected the site of works and have tendered for the works after such inspection.

UNDERTAKING

I/We have gone through the copy of standard tender document received from the Office of the Contracts and Monitoring wing and abide by the same for this contract also.

As witness my/our hand this.....day of.....2013.

Signature of Tenderer with seal

Name and
Address
of tenderer

Signature of Tenderer with Seal

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Contract No. CNT/SEW/JNNURM/141/2013-14

PRICE SCHEDULE

1. This tender has been called for in the percentage tender system. In the work schedule, detailed items of works involved in the work with specifications along with the quantity, the departmental rates and amount for individual items are furnished. The total value of the work is also furnished.
2. The tenderers are requested to quote the percentage variation over the total departmental value, which will be applicable for all items of works, individually and uniformly at which they are willing to execute the works, in the following format. In case any discrepancy / correction are found between figures and words furnished for the percentage, then the LOWER percentage among them ALONE will be taken as correct.

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Contract No. CNT/SEW/JNNURM/141/2013-14

FILL UP ANYONE OF THE FORM NO:A, B or C
STRIKE OUT THE FORMS WHICH ARE NOT APPLICABLE.

FORM NO:A

I / We agree to execute the work of “ **Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I – Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations by pulling / pushing / jacking method (Trenchless)** ” with a tender percentage of (-) Minus -----(in words) -----
----- (in figures) over departmental value of **Rs. 11,93,200/-** as furnished in the work schedule which is also applicable for all items of works, individually and uniformly over the departmental rates, furnished in the work schedule.

FORM NO:B

I / We agree to execute the work of “**Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I – Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations by pulling / pushing / jacking method (Trenchless)**” at the department value of **Rs. Rs. 11,93,200/-** for all items of works furnished in the schedule.

FORM NO:C

I / We agree to execute the work of “**Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I – Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations by pulling / pushing / jacking method (Trenchless)**” with a tender percentage of (+) Plus ----- (in words) -----
----- (in figures) over departmental value of **Rs. 11,93,200/-** as furnished in the work schedule which is also applicable for all items of works, individually and uniformly over the departmental rates, furnished in the work schedule.

NOTE:

1. If the tenderer offers to carry out the work at a value less than the department rate, the tenderer is requested to quote his percentage in Form No: A and strike out the Form B and C
2. If the tenderer offers to carry out the work at the department rate, the tenderer is requested to strike out the Form A and C.
3. If the tenderer offers to carry out the work at a value higher than the department rate, the tenderer is requested to quote his percentage in Form No: C and strike out the Form A and B.
4. If there is any discrepancy in percentage quoted in words and in figures the lowest percentage quoted will be considered.
5. If the price schedule is not quoted as above the tender submitted will be treated as Non – responsive.

Signature of Tenderer with Seal

WORK SCHEDULE

Name of Work : Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I – Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations by pulling / pushing / jacking method (Trenchless)

Contract No. CNT/SEW/JNNURM/141/2013-14

Sl. No.	Description of works	Qty./ Nos	Rate		Per	Amount	
			Rs	Ps		Rs	Ps
1	Construction of suitable size of driving pit, receiving pit and construction of fabricated or RCC thrust wall / bed including shoring, strutting and shuttering complete and lowering the following sizes of MS encasing pipe into driving pit by using contractors crane and machineries and jointing MS pipe by electric welding, laying the encasing pipe across the railway line / National Highway / State Highway Road / Canal crossing / etc by pulling / pushing / Jacking method (Trenchless technology method) using traffic condotions in all types of soils including SDR, but excluding hard rock without interfering and causing any hindrance to the movement of the train / buses / lorries or any other vehicle without any disturbance to the railway / road / canal formation etc. including bailing / pumping of water wherever necessary without affecting any installation like water supply pipeline / telephone cable / electric cable/ etc passing nearby area and scooping the earth inside						
	Laying 400mm dia MS Pipe	76.00 m	10000.00		m	760000.00	
2	Supply and delivery of MS encasing pipe without inside lining and outside coating with antirust painting at site of work inclsidng loading, freight, unloading, stacking at site and transit insurance, all taxes etc complete.						
	400mm dia M.S. pipe of wall thickness 8mm	76.00 m	5700.00		m	433200.00	
	TOTAL in Rs					1193200.00	

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Details of Milestone and Liquidated Damages

S. No	Description	Total Quantity of work to be completed in %	Cumulative Qty of work to be completed		
			1 st Milestone up to 1 month	2 nd Milestone upto 2 nd month	3 rd Milestone upto 3 rd month
1	Supply delivery of MS encasing pipe	100%	20%	50%	100%
2	Construction of suitable size of driving pit, receiving pit and construction of fabricated or RCC thrust wall / bed and Laying of 400mm dia M.S. pipe of wall thickness 8mm	100%	20%	50%	100%

The Liquidated damages for the whole of the works are Rs.597 /- per day and that for the milestone are as under,

LIQUIDATED DAMAGES

- I Mile Stone - Rs.120/- per day
- II Mile Stone - Rs.180 /- per day
- III Mile Stone - Rs.297 /- per day

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Contract No. CNT/SEW/JNNURM/141/2013-14

ADDITIONAL INFORMATION TO BE FURNISHED BY THE BIDDER

Sl. No.	Description	Quantity
1.	<u>List of personnel to be engaged</u> a. Skilled persons (to operate jacks, cranes, compressor and jack hammer etc.) b. Semi skilled persons c. Unskilled persons	8 Nos. 8 Nos As required at site
2.	<u>Plant and Machinery</u> a. Hydraulic jacks of minimum capacity b. Powered Power pack to operate jacks (minimum) c. Crane of minimum capacity d. Generator of minimum capacity e. Compressor and jack hammer (minimum) f. Mug trolley / bucket g. Welding Transformer h. Gas cutting set	200 Tonnes 1 No. 20 Tonnes 20 KVA 1 No. 1 No. 4 Nos. 2 Sets

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Contract No. CNT/SEW/JNNURM/141/2013-14

Annexure

SPECIAL CONDITIONS OF CONTRACT

1. The work consists of manufacturing and laying of 8mm thick 1x400mm (I.D) MS encasing pipe by Pipe jacking / pushing method across the National Highway (NH4) at 2 locations.
2. The rates quoted by the tenderer/contractor shall be deemed to be inclusive of the sales tax and other duties and taxes as applicable on all the materials and consumables like diesel, oil etc that he will have to purchase for performance of this contract.
3. The tenderer/contractor should have necessary plants and equipments such as high capacity jacks etc., and the list of such plant and equipment proposed to be utilized for the work shall be enclosed with the tender.
4. The tenderer/contractor have to submit necessary designs and drawings for the MS encasing pipe, driving/reception pit, inspection chambers to railways for approval which should include reinforcement details cement concrete mix design etc. and only on approval the contractor has to commence the work.
5. The bidder is to ascertain the soil condition at site while bidding.
6. Manufacturing of 8mm thick MS pipe units of 400 mm internal dia encasing pipe shall conform to IS 3589-2001. The MS pipes shall be designed to with stand all dead loads including self weight and live loads as per revised IRC loading codes in force. They shall also with stand all the loads coming on its during the jacking process. The mild steel used for the pipe shall be of 8mm wall thickness. If a pipe is found to develop cracks or other deformations during the jacking, it shall be repaired/replaced suitably at the cost of contractor and no extra payment will be made for the same.
7. Construction of drive pit with RCC thrust wall with requisite thickness as per the approved drawing shall be by open excavation and the drive pit is to be adequately protected from collapse by providing necessary shorting, steel sheeting etc. sheet piling if necessary.
8. Construction of reception pit shall be of suitable dimension at the far end of the pipe line for salvaging the front shield as per the approved drawing and shall be of open excavation with timber or other suitable shoring at the front of the jacked pipe.
9. RCC inspection chamber shall be constructed at the both ends of the MS encasing pipe to size and design as per the approved drawings with M 25 mix with necessary pre cast RCC covering slab and CI steps etc. complete. The contractor shall have to make suitable

Signature of Tenderer with Seal

Name of Work - Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I – Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations by pulling / pushing / jacking method (Trenchless)

Contract No. CNT/SEW/JNNURM/141/2013-14

number of cubes as per the instructions of Engineer in charge and shall have to get them tested for 7days and 28 days cube strength and shall have to furnish the test report to the Engineer in charge for his approval. The testing of concrete as mentioned above is the part of the contract and no extra payment will be made for the same.

10. Driving of MS pipe should be done by hydraulic jacking method with suitable welding between joints of adjacent pipe units under traffic conditions without causing any hindrance to the movement of running traffic. Providing of an intermediate jacking station if necessary for laying of the MS pipe below the National Highways has to be included within the quoted rates of the tenderer. The jacking load on the driving rig and the walls can be reduced by the use of inter mediate jacking station is provided the jack shall be removed at the end of drive and the gap between the pipes shall be sealed by pushing rear pipe giving proper attention to make the joints leak proof.
11. The hole to be drilled for pushing the MS encasing pipe should be to accommodate the MS encasing pipe only and the casing pipe should be pushed simultaneously in to the drilled earth as its progresses to keep the formation supported and to prevent any settlement of road under no circumstances, bored earth should be removed from casing pipe.
12. The MS encasing pipe should be laid in even bearing/level throughout its length.
13. Mobilization of all necessary plants and equipments like shield, jacking rig, hydraulic jack spacers etc as well as all temporary services and installations in connection with the work shall be arranged by the tenderer/contactor at his own cost. All such plants, equipments, installations etc. which are owned by the contractor shall be removed from the site after successful completion of the work.
14. The tenderers rates shall include excavations as necessary in all kinds of soil for completion of the work. Excavation shall also be required to be carried out from inside the pipes and shield while laying the pipes. The contractor shall provide necessary arrangements for such excavation work. The rates for stabilization of ground during excavation by any method for safety of the highway roads/embankment shall be included in the tenderers offer. All surplus excavated soil shall be disposed off the site in a place directed by the Engineer in charge at the cost of the contractor.
15. Dewatering of water from all trenches, pits shall be done by mechanically. CMWSSB will not entertain any extra on account of dewatering of such soil water by use of special dewatering techniques such as well point system or by any other method.

Signature of Tenderer with Seal

Name of Work - Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I –
Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations
by pulling / pushing / jacking method (Trenchless)

Contract No. CNT/SEW/JNNURM/141/2013-14

16. The excavated earth should be disposed off cleared off from Highway land or dumped in the low lying areas as specified and as directed by the Engineer in charge.
17. The tenderer/contractor should arrange the required power supply and water supply at his own cost.
18. The payment will be made only for the actual length of encasing pipe line laid in good condition.
19. The rates quoted should include the cost of cement and steel required including labour etc. complete for this work.
20. The work should be carried out to the correct alignment and depth as specified by the NHAI.
21. The work shall be completed within three months.
22. The contractor shall be responsible for coordinating with NHAI for getting necessary clearance etc. for completion of this work.
23. The contractor shall get police permission for carrying out the work wherever necessary.
24. The contractor shall have documentation during the execution by video graph and produce the same in soft and hard copy along with as constructed plan.
25. **Price Variation:** The prices quoted by the tenderers shall remain firm throughout the period of execution of the contract. Under no circumstances any escalation of the accepted rates shall be permissible. The tenderers shall keep this in view while quoting their rates.

Name of Work - Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I –
Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations
by pulling / pushing / jacking method (Trenchless)

Contract No. CNT/SEW/JNNURM/141/2013-14

Instructions and Specifications:

These instructions and specifications should be read in conjunction with the General conditions of contract.

1. This tender consists of schedule Bill of quantities and the quantities shown therein are approximate and intended for the guidance of the Tenderer/contractor to quote their rates.
2. This schedule Bill of quantities consists of items of works that are not covered by the schedule of rates. The rates quoted for this schedule should be inclusive of all lead and lift etc, and cover all labour charges etc. complete. The quantities furnished are approximate. The rate and amount of columns should be filled both in figures and words by the Tenderer/Contractor. Payment of works under this schedule will be made at the accepted rate for each item of work.
3. The contractor shall ensure safety of all working personnel and CMWSSB is not responsible for any legal liability or loss during the execution of this work
4. No approach road will be laid by the Department for conveyance of materials to site of works. Tenderer/Contractor will have to take his/their own arrangements for this.
5. It is the responsibility of the contractor for the safe loading from site of collections to the site of loading and any loss of damage caused to adjacent property will have to be made good by the contractor at his own cost.
6. The legal problems for Accidents if any, to persons at site will have to be dealt by the Contractor and NHAI/CMWSSB is not responsible for any damage of compensation thereof.
7. The Tenderer/Contractor will have to adhere to the workmen compensation act Motor Vehicles etc., and any infringement should be at Tenderer/Contractors own cost. Necessary insurance covers for the workers engaged are to be arranged by the contractor.
8. The Tenderer/Contractor is required to inspect the site of works and satisfy himself of the facilities available before quoting his rates.
9. The Tenderer/Contractor shall take special care while moving the materials alongside the National Highway and take necessary precautions to prevent accident to your Staff and property. Necessary caution signage, reflected lights/Tapes are to be placed in position at site.

Signature of Tenderer with Seal

17

Name of Work - Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I –
Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations
by pulling / pushing / jacking method (Trenchless)

Contract No. CNT/SEW/JNNURM/141/2013-14

10. The operation of any of the items in connection with this will rest entirely on the discretion of the NHA and no claims so over of any kind will be entertained for the non-operation of other items.
11. The Tenderer may inspect the site and accustom himself with the nature and magnitude of the job to be done and the other facilities required to be arranged by him.
12. As the time for completion of the entire work is the essence of the contract. Suitable arrangements should be made for speedy progress of this work so that the entire work is executed within one month from the date of issue of letter of acceptance of the Tender. The contractor is liable to pay liquidated damages as indicated in page 24 for any delay in the work.
13. As per Tamil Nadu General Tax Act 1959 by Tamil Nadu Act 15 of 1999, sales tax will be recovered from running bills.

Name of Work - Providing Comprehensive Sewerage Scheme to Maduravoyal-Package I –
Supplying and laying MS encasing pipe across NH road (NH 4) at 2 locations
by pulling / pushing / jacking method (Trenchless)

Contract No. CNT/SEW/JNNURM/141/2013-14

Safety precautions

1. At vulnerable locations where construction activity is in progress adjacent to existing National Highways should be cordoned off with proper barricades. The most vulnerable locations shall be barricaded with rail barricades projecting at least 1.5m above the ground. At all other locations barricades of not less than 1.0m height consisting of bamboo, casuarina poles and supported horizontally with similar bamboo, casuarina poles, Reflector Tapes should be provided.
2. All the barricades are to be painted or stuck on with road luminous paint strip at suitable intervals.
3. Work can be carried out in the night, only with the written permission of the Engineer of the construction activity, Where night work is permitted, lighting of the work site as required should be done.
4. The contractor shall be fully responsible against loss or damage arising from working of lorries and machinery adjacent to the National Highway and for any loss or damage to the NHAI or to 3rd party may suffer.
5. The contractor shall be fully responsible for ensuring safety at all times and shall bear the cost of all damages in cases of accidents unusual occurrences resulting in damage to NHAI property and passengers.