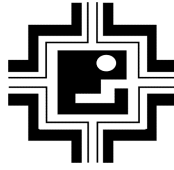


JAIPUR DEVELOPMENT AUTHORITY, JAIPUR



Bid Document

For

**Name of work:- Rate Contract for Providing, Laying & Jointing of lateral
Sewer line with construction of precast RCC Manhole in
Various colonies for 1 year under PHE-I Jurisdiction, JDA,
Jaipur.**

Cost: Rs. 149.67 Lakh

NIT No. 05/2019-20

Due On: 04.12.2019

**Executive Engineer (PHE-I)
Jaipur Development Authority
Jaipur**

जयपुर विकास प्राधिकरण, जयपुर

राम किशोर व्यास भवन, कमरा नं. 302, तृतीय-तल, नागरिक सेवा केन्द्र भवन,
इन्दिरा सर्किल जवाहर लाल नेहरू मार्ग, जयपुर-302004

क्रमांक जविप्रा/अधि.अभि. (पीएचई- I)/2019-20/D-423

दिनांक : 15.11.2019

निविदा सूचना

निविदा सूचना सं० अधि. अभि. (पीएचई- I)/05/2019-20

जयपुर विकास प्राधिकरण द्वारा “Rate Contract for Providing, Laying & Jointing of lateral Sewer line with construction of precast RCC Manhole in Various colonies for 1 year under PHE-I Jurisdiction, JDA, Jaipur.” जिसकी अनुमानित लागत रु 149.67 लाख के लिए ऑनलाईन बिड्स दिनांक 04.12.2019 को सायं 6:00 बजे तक आमन्त्रित की जाती है। निविदा बोली का ऑनलाईन आवेदन व भुगतान जविप्रा पोर्टल पर करने की अन्तिम तिथि 04.12.2019 को सायं 6:00 बजे तक है। निविदा बोली के दस्तावेजों का विस्तृत विवरण www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in and www.jda.urban.rajasthan.gov.in पर देखा जा सकता है।

निविदा में भाग लेने वालों को निम्न शर्तों की पूर्ति करनी होगी।

1. निविदा दाता जयपुर विकास प्राधिकरण की वेबसाइट www.jda.urban.rajasthan.gov.in

पर पंजीकृत हो एवं निविदा में भाग लेने के लिए बोलीदाता को आवेदन करने के लिए दस्तावेज शुल्क, अमानत राशि, आर.आई.एस.एल. प्रोसेसिंग शुल्क ऑनलाईन जमा करनी होगी।

2. ऑनलाईन निविदा प्रस्तुत करने के लिए निविदा दाताओं का राजस्थान सरकार के ई-प्राक्यूमेंट पोर्टल www.eproc.rajasthan.gov.in पर पंजीकृत हो।

(एम.एल. जॉगिड)
अधिशाषी अभियंता (पीएचई- I)
जविप्रा, जयपुर।

JAIPUR DEVELOPMENT AUTHORITY

Room No. 302, CCC Building, Third Floor, Ram Kishore Vyas Bhavan, Indira Circle, JawaharLal Nehru Marg, Jaipur – 302 004
Telephone: +91-141-2569696 E.mail: zepheljda@yahoo.in

No: - JDA/EE/PHE-I/2019-20/D-423

Dated: 15.11.2019

NOTICE INVITING BID

NIB No. : JDA/EE (PHE-I)/05/2019-20

Online Bids are invited up-to 6.00 PM of 04.12.2019 for “Rate Contract for Providing, Laying & Jointing of lateral Sewer line with construction of precast RCC Manhole in Various colonies for 1 year under PHE-I Jurisdiction, JDA, Jaipur” Estimated cost of 149.67 Lacs. The last date for Applying Bid and making online payment on JDA portal is up-to 6.00 PM of 04.12.2019. Details may be seen in the Bidding Document at our office or the State Public Procurement Portal website www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in and www.jda.urban.rajasthan.gov.in.

To participate in the bid, bidder has to be:

1. Registered on JDA website www.jda.urban.rajasthan.gov.in, For participating in the Bid, the Bidder has to apply for the Bid and pay the Bidding Document Fee, RISL Processing Fee and Bid Security Deposit, online only.
2. Registered on e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in for online e-Bid submission.

(M.L. Jangid)
Executive Engineer (PHE-I)
JDA, Jaipur

JAIPUR DEVELOPMENT AUTHORITY

Room No. 302, CCC Building, Third Floor, Ram Kishore Vyas Bhavan, Indira Circle, JawaharLal Nehru Marg, Jaipur – 302 004

Telephone: +91-141-2569696 E.mail: zepheljda@yahoo.in

Bid No: - JDA/EE/PHE-I/2019-20/D-423

Dated: 15.11.2019

NOTICE INVITING BID

NIB No. : JDA/EE(PHE-I)/05/2019-20

Name & Address of the Procuring Entity	➤ Name: Executive Engineer (PHE-I), Jaipur Development Authority Address: Room No. 302, CCC Building, Third Floor, Ram Kishore Vyas Bhavan, Indira Circle, JawaharLal Nehru Marg, Jaipur – 302 004 Telephone: +91-141-2569696 E.mail: zepheljda@yahoo.in
Subject Matter of Procurement	➤ Rate Contract for Providing, Laying & Jointing of lateral Sewer line with construction of precast RCC Manhole in Various colonies for 1 year under PHE-I Jurisdiction, JDA, Jaipur ➤ Job No. : 198/2017-18
Bid Procedure	➤ Potential Assessment Method Tender (eg. Single-stage Two part (envelope) open competitive) eBid procedure at http://eproc.rajasthan.gov.in
Bid Evaluation Criteria (Selection Method)	➤ Potential Assessment Method L1 (eg. Least Cost Based Selection (LCBS)-L1)
Websites for downloading Bidding Document, Corrigendum's, Addendums, etc.	➤ Websites: www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in, www.jda.urban.rajasthan.gov.in
Website for online Bid application participation and payment *	➤ Website: www.jda.urban.rajasthan.gov.in ➤ For participating in the Bid, the Bidder has to apply for this Bid and pay the Bidding Document Fee, RISL Processing Fee and Bid Security Deposit, online only. ○ Bidding document fee: Rs. 1000/- (Rupees One Thousand only) ○ RISL Processing Fee: Rs. 1000/- (Rupees One Thousand only) Requisite Bid Security Deposit
Estimated Procurement Cost	➤ INR 149,67,351.00/- (Rupees One Crore Forty Nine Lacs Sixty Seven Thousand Three Hundred Fifty One Only)
Bid Security Deposit	➤ Amount (INR) : 2% (Rs. 2,99,347/-) for A & AA class contractor registered in other department and 0.5% (74,837/-) for B & Above contractor registered in JDA.
Date/Time/Place of Pre-Bid	➤ NA
Applying Bid and making Online Payment on JDA portal (www.jda.urban.rajasthan.gov.in)	➤ Start Date: 20.11.2019 at 9.30 AM ➤ End Date: 04.12.2019 at 06.00 PM ➤ In case EMD in from BG Original Bank Guarantee is to be submitted in Room No MB-SF-225A (Room No. of DD (E&B) of Main Building, Jaipur Development Authority by 20.11.2019 10.00AM to 05.12.2019 upto 5.00 PM
Bid Submission on e-Procurement Portal of GOR	➤ Start Date: 20.11.2019 at 9.30 AM ➤ End Date: 04.12.2019 at 06.00 PM
Date/Time/Place of Technical Bid Opening	➤ 06.12.2019 at 03.00 PM
Date/ Time/ Place of Financial Bid Opening	➤ Will be intimated later to the Technically qualified bidders in case of Two Bid
Bid Validity	➤ 120 days from the bid submission deadline
Completion period of work	➤ 12 Months

* Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security), Tender Fee and RISL processing fee online through JDA Portal. The bid security options available in tender for participants are as mentioned below:

A. Payment Options:

Option-1: Bank Guarantee (BG) against EMD / Bid Security

Bidder may opt Bank Guarantee (BG) against EMD (Bid Security), for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee + RISL Processing Fee). This amount will be paid through Payment Gateway only, option to make balance payment through EFT (RTGS/NEFT) will not be available.

If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT / RTGS) will be available.

Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS)

If the bidder selects payment mode as EFT (NEFT/RTGS), "Paying Slip for EFT (NEFT/RTGS)" will be generated by the system for the complete amount. The payment can be made from any Bank any Branch using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 48 hours prior to closing date of bid participation.

Option-3: Payment Gateway (Aggregator)

The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from anywhere any time till the closing date & time of bid participation.

B. Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR.

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis.
- In case complete payment is done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis.
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) "Bid Participation Receipt" will be available on Login of Bidder on JDA portal.

Note:

Bidder (authorised signatory) shall submit their offer on-line in Electronic formats both for technical and financial proposal.

In case, any of the bidders fails to pay the Tender Fee, BSD, and RISL Processing Fee, online (subject to confirmation), its Bid shall not be accepted.

To participate in online bidding process, Bidders must procure a Digital Signature Certificate (Type III) as per Information Technology Act-2000 using which they can digitally sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e. TCS, Safecrypt, Ncode etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC. Also, bidders must register on <http://eproc.rajasthan.gov.in> (bidders already registered on <http://eproc.rajasthan.gov.in> before 30-09-2011 must register again).

JDA will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.

Bidders are also advised to refer "Bidders Manual Kit" available at eProc website for further details about the e-Tendering process.

Training for the bidders on the usage of e-Tendering System (eProcurement) is also being arranged by DoIT&C, GoR on a regular basis.

Bidders interested for training may contact e-Procurement Cell, DoIT&C for booking the training slot.

Contact No: 0141-4022688 (Help desk 10 am to 6 pm on all working days) e-mail: eproc@rajasthan.gov.in Address : e-Procurement Cell, JDA, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur

The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.

No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.

Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.

The provisions of RTPPA Act 2012 and Rules 2013 thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPP Act 2012 and Rules thereto, the later shall prevail.

(M.L. Jangid)
Executive Engineer (PHE-I)
JDA, Jaipur

Process for Participation & Depositing Payment Online

JAIPUR DEVELOPMENT AUTHORITY, has decided to receive Bidding document fee, RISL Processing Fee and Bid Security Deposit (BSD) through online mode only for which the bidder has to get registered himself on JDA portal www.jaipurjda.org.

To participate in the bid, bidder has to be:

1. Registered on JDA website www.jaipurjda.org (by depositing Rs. 500.00 online, the validity of which remains 3 (three) years).
For participating in the Bid, the Bidder has to apply for this Bid and pay the Bid Document Fee, RISL Processing Fee and Bid Security Deposit, online only.
2. Registered on e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in for online e-Bid submission.

Methods for depositing on line amount

- Online through Internet Banking, Debit Card or Credit Card.
- In case the amount exceeds the online payment limit, the payment may be made through RTGS / NEFT / Transfer in Bank Account Number **675401700586** IFSC Code **ICIC0006754** of ICICI BANK Limited, JDA Campus Jaipur.

In case of RTGS / NEFT / Transfer the bidder is required to deposit the requisite amount in the dedicated bank account number as mentioned above and has to get the UTR / Reference number from the bank. This number requires to be updated while applying the bid on JDA portal.

While participation in the bid, a receipt will be generated through the system showing the submission details as per **Annexure-4**. The bidder is required to fill the instrument numbers for various heads on e-Procurement portal www.eproc.rajasthan.gov.in as mentioned in the receipt.

More details about Registration Process, Terms and Conditions and FAQ along with contact detail is available on JDA website www.jaipurjda.org under [eServices](#)>>JDA Tender

Jaipur Development Authority, Jaipur

Office Order

No. : JDA/IT(1074501)/E-Services/2015-16/D-399

Dated: 4-10-2016

Subject: Payment mechanism for participating in tender.

Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security), Tender Fee and RISL processing fee online through JDA Portal. The bid security options available in tender for participants are as mentioned below:

A. Payment Options:

Option-1: Bank Guarantee (BG) against EMD / Bid Security

Bidder may opt Bank Guarantee (BG) against EMD (Bid Security), for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee + RISL Processing Fee). This amount will be paid through **Payment Gateway only**, option to make balance payment through EFT (RTGS/NEFT) will not be available.

If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT / RTGS) will be available.

Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS)

If the bidder selects payment mode as EFT (NEFT/RTGS), "Paying Slip for EFT (NEFT/RTGS)" will be generated by the system for the complete amount. The payment can be made from **any Bank any Branch** using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 2 days prior to closing date of bid participation.

Option-3: Payment Gateway (Aggregator)

The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from **anywhere any time** till the closing date & time of bid participation.

B. Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR.

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis.

- In case complete payment is done through Payment Gateway, on successful transaction the “**Bid Participation Receipt**” will be generated on real time basis.
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) “**Bid Participation Receipt**” will be available on Login of Bidder on JDA portal.

This payment mechanism will come into force w.e.f 15/10/2016. Thereafter, old payment mechanism related to NEFT/ RTGS in which the bidder makes direct payment without “**Paying Slip for EFT (NEFT/RTGS)**” in JDA’s bank account will be discontinued.

All procuring entities are hereby directed to clearly mention this procedure in NIB document.


(Pawan Arora)
Secretary

Copy for information and further necessary action to:

1. P.S. to JDC, JDA, Jaipur.
2. P.S. to Secretary, Secretary, JDA, Jaipur.
3. Director (Law / Finance / Town Planning / Engineering-I / Engineering-II), JDA, Jaipur.
4. All Additional Chief Engineer _____, JDA, Jaipur
5. DC (Administration)/DC(Store)/DC (Vehicle), JDA, Jaipur
6. System Analyst, JDA, Jaipur
7. Analyst-cum-Programmer, JDA to ensure integration of software w.e.f 01/10/2016.
8. All Xen _____, JDA, Jaipur.
9. Officer-in-charge, SPPP Portal, Jaipur.
10. OSD (Public Relation) / PRO, JDA, Jaipur.


(Brijesh Kishore Sharma)
OSD (RM)

Section A-1

Instructions to Bidders

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

SCHEDULE AND SPECIFICATIONS

Name of work :- Rate Contract for Providing, Laying & Jointing of lateral Sewer line with construction of precast RCC Manhole in Various colonies for 1 year under PHE-I Jurisdiction, JDA, Jaipur.

1. NIB No. :- E.E.(PHE-I)/05/2019-20
2. Approximate cost :- Rs. 149.67 Lakh
3. Cost of the tender documents :- Rs 1,000/-
4. Earnest Money :- Rs. @ 0.5 % Rs. 74,837/-
(For Contractors Enlisted B & Above Class in JDA, Jaipur)
:- Rs. @ 2 % Rs. 2,99,347/-
(For Contractors Enlisted in other Govt. Deptt.—“A” & “AA” Category)
5. Bid Submission Start date & Time :- 20.11.2019 (9:30 AM)
6. Bid Submission End date & Time :- 04.12.2019 (upto 6:00 P.M.)
7. Bid Opening date & Time :- 06.12.2019 at 03:00 P.M.
8. Completion period of work :- 12 Months

SCHEDULE 'A' : INFORMATION USEFUL FOR THE CONTRACTORS :

The tenderer should see the site and fully understand the condition of the site before tendering and include all lead, lifts etc. **Percentage above/Below on the rates as given in the 'G'-Schedule.** The work shall be carried out in accordance with the Rajasthan PWD, PHED and JDA detailed specification and to the entire satisfaction of the Engineer-In charge of the work.

The bid will be opened only of those bidders deposit proper bid security, processing fee, tender fee, GST registration, clearance certificate and copy of registration of contractor in required category are found to be in order. The Bid security, tender fee will be accepted through online payment only.

SCHEDULE 'B' : LIST OF THE DRAWING TO BE SUPPLIED BY THE DEPARTMENT:

The drawings may also be seen in the office of undersigned.

SCHEDULE 'C' : LIST OF THE DRAWING TO BE SUPPLIED BY THE CONTRACTOR:

List of the drawing to be supplied by the contractor NIL. But the contractor shall have to arrange at his own cost drawings required for the work after depositing necessary cost within JDA.

SCHEDULE 'D' : TEST OF THE MATERIALS :

The test of the material and workmanship shall be conducted by the JDA staff as necessary, The result of such tests should confirm to the standard laid down in the Indian standards and or the standards laid down in the detailed specification of the Public Works Deptt.,. Proper quality control is required to be maintained by the contractor. Qualified personnel as required under the contractor enlistments rules duly approved by the Deptt. shall have to be engaged at site by the contractor. The deptt. reserves the right to engage such staff and recover the expenses from the contractor on such account in case of his failure to do so.

SCHEDULE 'E' : SAMPLES OF THE MATERIALS :

The samples of the material to be used by the contractor shall be deposited 15 days in advance with the Engineer In charge and be got approved by him before use.

SCHEDULE 'F' : TIME OF COMPLETION :

The work should start within Ten days of issue of work order and complete within **12 months**.

SCHEDULE 'H' : SPECIAL CONDITION.

Annexure A : Compliance with the code of Integrity and No Conflict of Interest

Annexure B : Declaration by the Bidder regarding Qualifications

Annexure C : Grievance Redressal during Procurement Process

Annexure D : Additional Conditions of Contract

Annexure E : DLP period for various type of works. Office order D-29 dated 11.03.2016

Annexure F : Payment mechanism for participating in tender: Office order D-399 dated 04.10.2016.

Annexure G : GST Circular for participating in tender: Office order D-172 dated 12.07.2017.

SIGNATURE OF CONTRACTOR

**Executive Engineer (PHE-I)
Jaipur Development Authority,
Jaipur**

with full address & Mobile No. :

TENDER FOR WORKS

I/We hereby tender for the execution for the Jaipur Development Authority, Jaipur of the work specified in the underwritten memorandum within the time specified in such memorandum at the rates, (in figure)% (as well as in words) Percent below/above the amount, entered in the schedule G in all respects in accordance with the specifications, designs, drawings and instructions in writing referred to in Rule I in all respects in accordance conditions with such conditions so far as applicable. I/We have visited the site of work and am/are fully aware of all the difficulties and conditions likely to affect carrying out the work, I/We have fully acquainted myself/ourselves about the conditions in regard to accessibility of site and quarries/kilns nature and the extent of ground, working conditions including stacking, of materials, installation of tools & plant, conditions effecting accommodation and movement of labour etc. required for the satisfactory execution of contract.

Memorandum

- | | | | |
|-----|--|---|---|
| (a) | General description of work...- | : | |
| (b) | Estimated cost | : | Rs. 149.67 Lakh |
| (c) | Earnest money | : | Rs. 2,99,347/- @ 2 % |
| | | | (For A & AA Class enlisted contractors outside of JDA) |
| | | : | Rs. 74,837/- @ 0.5 % |
| | | | (For B & Above Class enlisted in JDA contractors) |

- (d) **Security Deposit :**

(i) "The security deposit @ 10% of the gross amount of the running bill shall be deducted from each running bill and shall be refunded as per rules on completion of the contract as per terms and conditions. However, the amount of security deposit deducted from running bills shall not be converted into any mode of securities like bank guarantee, FDR etc. The earned money deposited shall however be adjusted while deducting security deposit from first running bill of the contractor. There will be no maximum limit of security deposit.

However, a contractor may elect to deposit of full amount of 10% security deposit in the shape of bank guarantee or any acceptable form of security before or at the time of executing agreement. In that case earnest money may be refunded only after deposition of full 10% as above. However, in case during execution cost of works exceeds as shown at the time of depositing 10% as above, balance security deposit shall be deducted from the Running Account Bills."

(ii) Bank Guarantee shall in all cases be payable at the headquarter of the Division or the nearest District Headquarters.

- (e) Time allowed for the completion of work (to be reckoned from the 10th day after the date of written order to commence the work) in **12 months**. Should this tender be accepted in whole or in Part, I/We hereby agree to abide by and fulfill all the terms and provisions of the conditions of contract annexed here to and of the Notice Inviting Tender, or in default thereof, to forfeit and pay to the Governor of Rajasthan or his successors in office, the sum of money mentioned in the said conditions.

Validity of rates 120 days.

A sum of Rs. is forwarded herewith in the form of Cash, Bank Draft, Bankers Cheque as Earnest Money. This amount of earnest money shall absolutely be forfeited to the Governor of Rajasthan or his successor in office without prejudice to any other right or remedies of Governor of Rajasthan or his successor in his office, should I/We fail to commence the work specified in the above memorandum.

Signature of Witness
Witness's address & Occupation

Signature of Contractor
Address of Contractor

Date:

The above tender is hereby accepted by me on behalf of the Governor of Rajasthan

Date:

Executive Engineer (PHE-I)

Section A-2

General Conditions of Contract

(Appendix XI of PWF & AR. Govt. of Rajasthan effective
up to date shall be applicable)

Section A-3

Special Conditions of Contract

SPECIAL CONDITIONS OF THE CONTRACT**1 PROVISION FOR NOMINAL REINFORCEMENT IN PRE-CAST RINGS**

The Contractor shall provide steel reinforcement as per design requirement in each Pre-Cast M-40 Grade Circular Rings, along with nominal **reinforcement @ 0.12%** of gross cross sectional area in both the direction i.e. vertical bar & circular rings) subject to a minimum of nominal reinforcement as per Code of "*Practice of Plain and Reinforced Concrete*" IS:456 2000. **No extra payment shall be made to him/firm on this part. The Contractor should therefore take provisions accordingly.**

SETTING OUT

2. The contractor(s) shall set out the whole of the work in conjunction with an officer to be deputed by the Engineer-in-charge and during the progress of the work to amend on the requisition of the Engineer-in-charge any errors which may arise therein and provide all the necessary Labour materials and equipments for so doing. The contractor has to provide all tools, plant, machinery, Labour and materials which may be necessary and required for the work. All materials and workmanship shall conform to the relevant specifications mentioned in the tender documents.
3. The contractor shall carryout the detailed topographic survey (level survey) with in the site and prepare the pre-commencement maps for approval of the Engineer-in-charge. Based on the approved pre-commencement maps showing spot levels of road crossing, the contractor will prepare the necessary working drawings and L-sections for the purpose of execution of work.

Public Awareness / Information Display

4. The contractor shall, at his own cost, arrange to provide, erect and maintain necessary display boards/ flags/banners etc. at selection points of project site giving such information as considered necessary for public awareness/ information/ safety as directed by the Engineer-in-charge.
5. Contractor shall provide sufficient number of boards at site of work indicating "**JDA AT WORK**" at his own cost as required by Engineer-in-charge.

Site office for Engineer-in-charge and other supervisory staff

6. The contractor shall arrange to provide office at his own cost with two tables, five chairs, two steel almirah, display board, etc., fully furnished office accommodation within 15 days from the date of commencement of work as per requirements/ directions of the Engineer-in-charge including maintenance of the same.

Field Laboratory

7. Within 15 (fifteen days) from the date of commencement of work, the contractor shall arrange to provide at his own cost a fully furnished and adequately equipped field laboratory.
8. The calibration of the laboratory equipment and instrument shall at the initial stages be certified by agencies approved by the Engineer-in-charge. Laboratory equipment shall be properly maintained and calibrated throughout the period of the contract by the
9. Contractor at his own expense. The contractor shall notify the Engineer-in-charge sufficiently in advance prior to conducting any tests for materials at work. The Engineer-in-charge will also inspect the laboratory and the contractor shall provide adequate facilities to the Engineer-in-charge for his independent verification of the accuracy and adequacy of the facilities.

Requirement of Land

10. Land for establishment of site office, field laboratory etc. shall be arranged by the contractor at his own cost.

Transport of material is contractor's responsibility.

11. It shall be mandatory on the part of the contractor to arrange Crane of suitable size for the transportation, loading, unloading, and fixing in position of the Pre-cast manhole elements. No manual labour for such purpose shall be engaged.
12. The tested material will be transported to site by the contractor safely. If any material or pipe/pre-cast elements got damaged during transportation, loading, unloading, stacking and lowering in the trench the same will be rejected and no payment shall be made.
13. The surplus earth and damaged materials will be immediately removed from the site of work and dumped as per instruction of Engineer-in-charge.
14. The material collected at site and paid provisionally shall remain under the watch and ward of the contractor till it is consumed fully on the work.
15. Any material not conforming to the specifications collected at site shall have to be removed by the contractor within a period of 3 days of the instructions, issued by the Engineer-In-charge in writing. failing which, such material shall be removed by the Engineer-In-charge at risk and the contractor after expiry of 3 days period.

Inspection of work/ Materials.

2. **The testing of work /samples shall be carried out by Engineer-in-charge/authorized representative or by Third party inspection (Any authorized third party inspection agency) as directed by the Engineer-in-charge. The test shall be carried out as per relevant I.S. Specification at manufacture's site before transportation to site. Inspection cost/testing charges if any, shall be born by the contractor only. Inspection shall be carried out for various items for HDPE DWC pipes/RCC pipes, PVC (SWR) pipes, Cast iron ring and frame, manhole cover Ferro-cement footsteps and Pre-cast manhole elements/components etc as directed by Engineer In-charge.**

Sewer laying work and construction of manholes.

3. The JDA Site Engineer shall provide the reduced level value of Bench Marks and invert levels in reference to the Bench Marks while starting the work. The contractor/ Firm or company's technical staff will transfer levels in the trench to lay the sewer line at required gradient with standard level instruments and , boning rods, side rails. The Contractor/Firm or company will be fully responsible for any error while transferring levels from Bench Marks to the trench. While doing so, if any, line is laid wrongly and/or is not as per desired gradient it shall be the responsibility of contractor to get the line re-laid at his own cost
4. The contractor shall provide at the site all material he shall be required to use for timbering/stuttering shoring excavation of trenches and which he shall bring to the site, prior to start of excavation for approval of the Engineer-in-charge.
5. Pre-cast manhole chambers shall be constructed/assembled simultaneously with the laying of sewers as per drawing and detailed specification of **JDA BSR.**
6. Concreting work should be done in the presence of an Engineer-in-charge not below the rank of Site Engineer of the JDA after checking of reinforcement by the Sector Engineer. After taking layout, the contractor shall submit daily Schedule of work to the Engineer-in-charge 15 days in advance.
7. Only design mix concrete of grade M-40 shall be used for the precast manhole elements.
8. The contractor shall keep the trenches open between two consecutive manholes while laying the sewer line. Pipes shall be lowered in the trenches and cured minimum for three days, trench shall be refilled with excavated earth as per specification after the inspection of Sector / Site Engineer.
9. No extra payment will be made to the contractor on account of clearance of soakage well/septic falling in the alignment of the sewer line. The sewer line shall be tested at contractor's cost as per I.S. code no. 783-1985 and departmental specifications for water tightness, straightness and gradient by the Engineer In charge. If any leakage is found during testing the same will be replaced by the contractor at his own cost.

10. Two percent amount of each running bill shall be withheld on account of testing of sewer system, which will be released only after successful testing. The contractor will be fully responsible for structural safety stability and water tightness of the sewer line and associated work.

Materials

11. Cement and steel shall not be supplied by the department.
12. Steel, when arranged by the contractor shall produce a test certificate for the whole lot as per the IS Code provisions from an authorized laboratory approved by the Engineer-in-charge.
13. Water for construction and testing purpose shall have to be arranged by the contractor at his own cost. In case it is supplied by the JDA, charges @ 1% of total value of item of construction work shall be taken and recovered from each running bill.

Design and Drawings.

14. JDA shall not be responsible for any error, in accuracy or permission of any kind in JDA's requirements as originally included in the contract. Any data or information received by the Contractor, from JDA or otherwise, shall not relieve the Contractor from his responsibility for the design and execution and structural stability of the per-cast elements.
15. The drawings of the pre-cast eccentric conical piece and circular rings is based on the departmental designs. Contractor may study the design, drawings and specifications carefully and if felt necessary, may increase the sectional thickness, reinforcement or the grade of concrete suitably. No extra payment shall be made to the contractor over the rates quoted by the contractor for any modifications / changes proposed by him. The contractor shall be fully responsible for the structural safety of the precast manhole elements/components.

As Built Drawings.

16. The submission of the as-built drawings of the sewer work is the precondition for the final payment. The final drawings shall be submitted in one reproducible set and 3 copies on linen bound in an album of an approved size. The contractor shall submit all the completion drawings **including L-Section and point file** and approved design calculations on CD ROM / DVD in two copies with proper directory structure. The scale of drawing and the size of drawing shall be as per the direction of the Engineer in Charge.

Safety aspects associated with the work.

17. **Safety And Accident Prevention Officer:** Due precautions shall be taken by the Contractor, at his own cost, to ensure the safety and protection against accidents of all staff and Labour engaged on the works, local residents in the vicinity of the works, and the public traveling through the works. The contractor shall deploy at least one officer from his staff, qualified to promote and maintain safe working practices. This/these officer(s) shall have authority to issue instructions and shall take protective measures to prevent accidents, including but not limited to the establishment of safe working practices and the training of staff and labor in their implementation. The contractor shall furnish to the department the name(s) of such officer(s) before the start of the work.
18. The contractor/firm or company while executing the work will adopt all safety measures at his cost to safeguard from any loss of life and damage of public and private property. If any loss and damage is occurred, they will pay the full compensation from their own pocket to the concern. All the consequence (legal and or financial) will be borne by the contractor only and JDA will not be responsible in any way.
19. The contractor shall not work before sunrise and after the sunset.
20. The contractor/firm or company will take utmost care to safeguard the water mains, Electric and Telephone cable existing surface drains water connections etc., while executing the work. Any damages/rectification shall be borne by the contractor only .
21. The contractor/firm/company is bound to get the workmen insured against accident from the Insurance Company at his own cost.

22. The contractor will pay compensation to the house owner or to the owner of any adjoining property or any other works for the damaged sustained on account of this work while in progress or complete from his own pocket.
23. Electric and water connections, if needed, shall be arranged by the contractor himself at his own cost.
24. Contractor shall be the sole custodian of the men and material at work and will be fully responsible for any loss of life or otherwise occurred during the execution of the works

25. Defects liability period

The defect liability period shall be of 3 years, from the date of the completion. The Contractor shall be responsible for satisfactory performance of the work under all design and operation conditions for the duration of the defects liability period, except for damages due to unprecedented natural calamities.

26. Refund of Performance Guarantee & Security Deposit

The Security Deposit (SD) and Performance Guaranty (PG) shall be refunded after successfully completion of defect liability period of 3 years. The 20 % amount of SD shall be released after completion of 1st year of DLP, other 20 % amount of SD shall be released after completion of 2nd year of DLP and remaining 60 % amount of SD shall be released after completion of 3rd year of DLP. (As per JDA Office order no. JDA/EE(TA to Dir.-Engg-I)/2016/D-29 dated 11.03.2016)

27. As per office order no. JDA/DD (E&B)/2018/D-352 dated 29.08.2018, Clause of agreement no. 45 for Price Escalation variation is not applicable.

COMMISSIONS AND CORRECTIONS

28. If there is any typographical error or otherwise in the 'G' Schedule. The nomenclature and the rates as given in the relevant JDA BSR-2016 and JDA approved items/rates on which schedule 'G' is based, shall prevail.

The above conditions may be read very carefully and adhered strictly.

Signature of Contractor

**Executive Engineer (PHE-I)
JDA, Jaipur**

Section A-4

Specifications and Scope of Work

SPECIFICATION AND SCOPE OF WORK

1. The site is located at various locations under Jurisdiction of Executive Engineer (PHE-I), JDA Jaipur.

- a) Setting out of works and carrying out confirmatory survey.
- b) Submission of working design and drawings and approval of same by the department.
- c) Providing, laying and jointing of 200 mm diameter HDPE DWC, 200 mm Dia RCC NP-4 pipe line.
- d) Construction of new manholes with RCC Pre Cast Conical piece and RCC Pre Cast Rings as per enclosed drawings and specifications.
- e) Utility shifting.
- f) Restoration of Roads.
- g) Inspection of material at works.
- h) Removal of defects in laying and jointing of all sewers, fittings and manholes after testing and during defect notice periods.
- i) The drawings enclosed in **Section–A6**, appended herewith contains a plan of the area, The Schedule 'G' in volume II contains item wise classification of underground strata likely to be excavated but the same is not guaranteed and excavation work may have to be carried out in different strata other than given in schedule 'G'.
- j) Submission of as built drawings.
- k) Any other associated work as required by Engineer-in-charge.
- l) Prior to vacating the site, the contractor shall be responsible for and bear any costs of reinstating the site to a condition at least equal to that in which it was handed over to the contractor.

The contractor is advised to visit site of work before quoting his rate and frame his own opinion about the live conditions prevailing at site.

2. DESCRIPTION OF WORK.

- a) The complete work will be consisting of the following main items as specified in detailed schedule and drawings as per the tender document enclosed herewith.
- b) Excavation of trenches, refilling and removal of surplus earth for laying pipes and construction of appurtenances like manhole and vent shaft along with requisite safety measures.
- c) Providing, laying and jointing **200 mm dia HDPE DWC, 200 mm dia RCC NP-4 pipes at** required gradient and testing of joints and associated works.
- d) Providing and laying suitable bedding of cement concrete for pipes.
- e) Construction of required size RCC Pre Cast Manholes along with providing and fixing Ferro cement Manhole covers, C.I. frames and Ferro cement footsteps of required size, duty and weight as per drawing.
- f) Making connection to existing Sewers by dismantling wall and concrete channel and its related repairs.
- g) The drawings enclosed in section A-5 appended herewith contains a plan of the area, The Schedule -G in volume II contains item wise classification of underground strata likely to be excavated but the same is not guaranteed and excavation work may have to be carried out in different strata other than given in schedule-G.
- h) The contractor is advised to visit site of work before quoting his rate and frame his own opinion about the live conditions prevailing at site.
- i) Any other associated work as required by Engineer-in-charge.

2.1 DRAWING TO BE SUPPLIED BY CONTRACTOR

The following drawings are required to be supplied by the tenderer when required by the Engineer-in-charge and work should commensurate only after obtaining his approval in writing.

- a) Drawing of measuring boxes for cement, sand and other construction material supplied at site.
- b) Drawing of Ferro-cement manhole covers with cast iron ring, frame and Ferro-cement steps supplied at site.
- c) **AS-BUILT DRAWINGS:-**The submission of the as-built drawings for the equipment is the precondition for the final payment. The final drawings shall be submitted in one reproducible set and 3 copies on linen bound in an album of an approved size. The contractor shall submit all the **completion drawings, including L- section man hole to man hole with point file and approved design calculations on CD ROM / DVD in two copies with proper directory structure.** The scale of drawing and the size of drawing shall be as per the direction of the Engineer in Charge. Any other drawings related to works included in the contract.

2.2 DRAWINGS TO BE SUPPLIED BY THE DEPARTMENT.

The drawings of the various manhole elements (Ferro-cement manhole cover, Ferro cement footsteps, Cast iron rim and frame), drawings showing the trench width for various invert depth of the corresponding diameters and the map/plan of the area showing the proposed lateral sewer network is enclosed in the section A-5 of the tender document shall be supplied by the department.

2.3 WORKING DRAWING:

The working drawings showing plan and positions of proposed sewers are available for inspection at the office of the undersigned. The interested may inspect these drawings during office Hrs. on any working day.

2.4 GENERAL DESIGN OBLIGATIONS

- a) The Contractor shall be deemed to have scrutinized, prior to submission of bid, design criteria, calculations, and drawing as per the JDA requirements.
- b) JDA shall not be responsible for any error, in accuracy or permission of any kind in JDA's requirements as originally included in the contract. Any data or information received by the Contractor, from JDA or otherwise, shall not relieve the Contractor from his responsibility for the design and execution of the works.

2.5 SUBMISSION PROCEDURE FOR DETAILED DESIGN AND EXECUTION DRAWINGS:

- a). The contractor shall carry out the preparatory works such as to prepare the plans, L-Section, designs, working drawings etc.
- b). The drawings shall be sufficient in details and the scale has to be chosen accordingly in coordination with the Engineer in charge.
- c). If required, the detailed design and the execution drawings shall be submitted only after verification by an institute or agency approved by the Engineer In charge or any authorized representative of the JDA.

3. SAMPLES OF MATERIAL

- 3.1** The Contractor shall submit samples of the following items, to the Engineer In charge for carrying out tests as specified under Schedule 'D' in specified quantities as mentioned against each item before the commencement of work or within 15 days of issue of order, whichever ever accrues earlier ' and shall obtain his approval before using any such material at site free of cost by the contractor.

- | | |
|---------------------------------------|-----------|
| a) Rubble stone / Brick (First Class) | 10 Nos. |
| b) Fine Aggregate (Bajari) | 0.05 Cum. |
| c) Coarse Aggregate: | |
| Size 20mm and below | 0.05 Cum |
| d) Steel (for each size of bar) | 0.05 Kg. |
| e) Spun Yarn | 0.05 Kg. |
| f) Cement | One bag. |
| g) Bitumen Paint. | 0.05 kg. |

The following samples or as directed by EIC as per requirement shall be submitted from each lot of supply as per I.S.S. for approval of Engineer In charge as to the quality of material as per relevant IS Codes.

- a) HDPE DWC Pipes ISI marked.
- b) RCC NP-4 Pipes ISI marked
- c) Ferro cement steps for manholes
- d) Ferro cement manhole cover
- e) Pre-cast RCC manhole element

- 3.3** Any other sample of material that may be required by the Engineer In charge from time to time.

- 3.4** All the above samples are to be delivered in suitable packing at the office of the Executive-Engineer-In – charge or as desired by the engineer-in-charge

4. TESTS OF MATERIALS

The Engineer In charge or his authorized representative will carry out tests as and when considered necessary for the quantity and quality of work done and for the material used at the work. The contractor, unless otherwise specifically mention to do so, shall provide all facilities and arrangements to undertake those tests.

- 4.1** The contractor shall provide all necessary facilities to undertake tests for a lot of material supplied at site. All the testing charges for the test being conducted on construction material such as HDPE DWC pipes, concrete, manhole cover, cement, fine aggregate, coarse aggregate etc at other/departmental Testing laboratories shall be borne by the contractor.

- 4.2** The testing of all the building material shall be conducted as per relevant Indian Standard specification. If relevant Indian standard specifications are not available for a particular item, the testing for quality of material shall be done in accordance with detailed specification of PWD (B.S.R.) Rajasthan, however it is not possible for the contractor to take suitable arrangements for testing of sample the same shall be taken to the laboratory authorized by the Executive Engineer-in-charge. The contractor shall get the quality of material obtained from each source approved from the Engineer In charge. In case the source of supply of building

material is changed at subsequent date sample as required above shall be got approved before using the material.

- 4.3** The samples submitted by the contractor required under schedule –G, Volume -II shall invariably be supplemented with the manufacturer's test certificate for approval of the Executive Engineer In charge. The Executive Engineer, in charge may ask for further testing of material before, approval and subsequent use at site. The contractor in such case shall supply required quantity of samples as desired by Executive Engineer, in charge. The samples as obtained shall be sent to authorized laboratory for testing. In case the material is not found to be as per specification the whole lot of supply shall be rejected.

The relevant standards for complying testing and specification for each material are as given below:

1. HDPE DWC pipe : IS 16098 (Part-II)- 2013 (As amended upto date)
2. RCC pipes: IS 458 As amended upto date)
3. Ferro cement circular manhole cover and frames as per (Departmental specifications and drawing).
4. Ferro cement foot steps for manholes.
5. Precast manhole elements (Departmental specifications and drawing).

5. LIST OF MATERIAL TO BE SUPPLIED BY THE DEPARTMENT

Nil.

6. DETAILED SPECIFICATIONS

The detailed specifications of the work to be executed shall be as per the provision of detailed specification **JDA BSR-2016** and the relevant Indian standard specifications unless otherwise mentioned above in the specification for work explained under scope of work. Wherever a reference to the I.S. code mentioned herein appears, it shall be taken as reference to the latest edition of the standard. The complete scope and detailed specification of work is as detailed herein after, item wise given in Schedule 'G' and drawings given in, volume-II and section A-5 of bid document respectively.

6.1 TRANSFER OF LEVELS AND ESTABLISHMENT OF GRADIENTS:

- a) The contractor should furnish his work program, construction methodology within 15 days after the letter of Notice to proceed for work and prior to start of the construction activities at site.
- b) To carry out the leveling survey of whole area or part of the area as a confirmatory survey as per Engineer-in-charges instructions and confirm the ground levels, chain age, road network, etc. with the data available in design reports and got it approved from the Engineer-in-charge prior to commencement of the work.
- c) The transfer of level at ground from the specific bench mark (to be given with in 100 meter from the starting point of line) shall be done by contractor. The grade line shall be done with the help of sight rail and boning rods. The necessary equipment and manpower required shall be arranged by contractor for transfer of levels.

6.2 EXCAVATION AND REFILLING WORKS

- a) The excavation and refilling work shall be done in accordance with the detailed specification PWD (B.S.R.) Rajasthan and as per drawing appended in section A-5.
- b) The provision of IS 3764/1966 safety code for excavation work and is 4091-1967 safety code for blasting and related drilling operation shall be strictly met with at each site of work. The work shall be stopped in case these requirements are not met with.
- c) Excavation work for different size of sewers, manholes, as per working drawings in different soils / described item wise in schedule 'G' shall be carried out in the manner specified here in drawing No.1.
- d) Before excavating the trench the alignment of sewer line shall be approved by the Engineer.
- e) Before carrying out the excavation work the trial pits shall be taken along the proposed sewer line alignment by the contractor after mutual agreement and approval of the Engineer in advance of the excavations for the purpose of satisfying himself as to the location of underground obstructions or conditions. The contractor shall proceed with caution, in any excavation and shall use every means to determine the exact location of underground structures, pipelines, conduits etc, and prior to excavation in the immediate vicinity thereof. The contractor shall be solely responsible for the cost of protections or repair or replacement of any structure, pipeline, conduit etc, above or below ground which may be broken or otherwise damaged by his operations.
- f) The trench shall be shored and timbered wherever necessary and specified. The blasting and dewatering work shall be carried out in the manner specified and all material and T & P shall be arranged by the contractor at his own cost. All hard and soft patches shall be treated in the manner specified after obtaining approval from Engineer-In-charge. Unless the description of items for excavation specified so, separate measurement shall not be taken for these time.
- g) The lighting, barricading, guarding of the trenches and the provision of watchman shall be done by the contractor at his cost.
- h) The barricading shall in no case be removed until the trench is excavated, the pipes are laid and Engineer-in-charge gives permission to proceed with the backfilling
- i) Contractor shall not be paid any additional compensation for excess excavation over what is specified as well as for any remedial measures that are specified.
- j) The excess excavated material shall be carried away from the site of works as specified, failing which in view of public safety and traffic convenience, Engineer-in-charge may carry out the work by any other agency at Contractors risk and cost.

6.3 UNDER BED AND BEDDING WORK BELOW PIPES.

- a) The type of bedding as per specification of G schedule, working drawing along with under bed, where ever, required shall be provided in stages and manners specified in drawings and as per directions of engineer-in-charge. The complete material placement in specified dimensions and specified levels, connection etc. is included in scope of work.
- b) The bedding shall preferably be provided continuously between consecutive manholes. In case, it is not possible to do so, the vertical joints in bedding material shall be provided at outer edge of socket. No horizontal joints shall be permitted in concrete cradle.

6.4 SUPPLYING, LAYING, JOINTING AND TESTING OF PIPES:

1 DOUBLE WALL CORRUGATED (DWC) HDPE PIPES:

a) APPLICABLE CODES

The manufacturing, testing, supplying and testing at work sites of HDPE-DWC pipes shall comply with IS 16098 Part-II: 2013 and all currently applicable statutes, regulations, standards and Codes. In particular, the following standards, unless otherwise specified herein, shall be referred. In all cases the latest revision of the all related Codes shall be referred.

The manufacturer's own rework material conforming to the requirements given in 3.25 of IS:16098 is permissible. No other rework material shall be used.

b) MARKING : GENERAL

Marking shall be labeled, printed or formed directly on the pipe or fitting, in such a way that after storage, weathering and handling the legibility shall be maintained. Marking shall not initiate cracks or other types of defects which adversely influence the performance of the pipes or the fitting. Minimum Required Marking.

PIPES

Each pipes shall be marked at intervals of maximum 3 m, at least once per pipe, with the following information:

- Manufacturer's name/Trademark;
- Diameter series, nominal size;
- Stiffness class;
- Material; and Lot number/batch number containing information regarding period of manufacture.

FITTINGS

Each fitting shall be marked with the following information:

- a) Manufacturer's name/Trade-mark;
- b) Diameter series, nominal size;
- c) Nominal angle;
- d) Stiffness class;
- e) Material; and Lot number/batch number containing information regarding period of manufacture.
- f) BIS Certification Marking each pipe or fittings may also be marked with the standard Mark.

The use of the Standard mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made there under

PRODUCT IDENTIFICATION

Product markings on Crumple Plastic Pipe will include the following information to facilitate jobsite inspection.

Nominal pipe size Manufacturer's name Date code Application standard(s)

WORKMANSHIP/ APPEARANCE

Pipes shall be free from all defect including indentations, delaminating, bubbles, pinholes, cracks, pits, blisters, foreign inclusions that due to their nature degree or extent detrimentally affect the strength and serviceability of the pipe. The pipe shall be as uniform as commercially practicable in colour opacity, density and other physical properties as per relevant IS Code or equivalent International Code. The inside surface of each pipe shall be free of scouring, cavities, bulges, dents, ridges and other defects that result in a variation of inside diameter from that obtained on adjacent unaffected portions of the surface. The pipe ends shall be cut clearly and square to the axis of the pipe

MEASUREMENT

The net length of pipes as laid or fixed shall be measured in running meters correct to a cm.

INSPECTION AND TESTING:

The pipe shall be delivered at site after inspection by the nominated inspectors by the Employer. Physical Dimensions and visual inspection: The Manufacturers test reports shall be provided for review. Mechanical Characteristics shall be in accordance to IS 16098- 2013. Ring Flexibility shall be as per IS 16098.

Pipe manufacturers are a valuable resource during the project planning stage since they are familiar with adapters that work well with their own products.

BELL & SPIGOT COUPLERS WITH “O” RING GASKETS

These couplers to impede or prevent the infiltration or infiltration of liquids in NON-PRESSURE application.

Bell & Spigot Couplers with “O” Ring Gaskets:- These couplers are produced on the pipe during the pipe extrusion process. Bell & Spigot pipes are available in 20-foot lengths, each coupler Spigot End comes with a non-pressure pipe water leak restriction gasket manufactured per ASTM-D-477. one should not test until the pipes have been backfilled or restrained for safety.

UNLOADING

- a) The Contractor should set aside an area for products to be stored on site.
- b) This area should be flat, free of large rocks, rough surfaces and debris.
- c) It should also be out of the way of construction traffic.
- d) Pipe may be delivered either palletized or loose, depending on the type and quantity of product.
- e) Pallets may be unloaded with a backhoe, forklift or other piece of equipment and a nylon sling or cushioned cable.
- f) The sling should be wrapped around the pallet at the third points as it lifts the pallet onto the ground. As an alternative to using a sling to unload full pallets, the pallet may be opened and lengths of pipe unloaded individually be carefully rolling single lengths of loose pipe from the delivery truck onto the front end loader, then onto the ground.
- g) Alternately, the pipe can also be lifted using a nylon sling or cushioned cable at the third points.
- h) End handling with a forklift MUST NOT be used as pipe damage will occur.
- i) Due to joint weight, larger diameter pipes should not be off loaded by hand.

JOB SITE STORAGE

- a) Reasonable care should be used in handling pipe.
- b) The pipe should not be dropped, dragged or bumped against other pipe or objects.
- c) Palletized pipe should remain in the pallet for jobsite storage.
- d) Non-palletized pipe can be stockpiled for temporary storage in a flat debris-free area out of the way of construction traffic.
- e) Begin the stockpile with secured timbers spaced the width of the proposed stockpile at a distance not exceeding the third points.
- f) For pipe with attached bells, a recommended stacking method is to alternate the direction of the pipe lengths so that the bells are not stacked on each other.
- g) As upto three pipes can be laid before alternating directions. Subsequent layers should follow the same pattern as the first but with fewer sticks of pipe in each row.
- h) For smooth interior pipe, storage space can be minimized by nesting smaller diameters into large diameter pipe.
- i) Factory installed gaskets on the spigot should be protected by positioning them between corrugations.

STRINGING THE PIPE

- a) Placing the pipe and accessories along the open trench, or “stringing” Can save handling time.
- b) Each pipe length should be laid on a level surface as near as possible to the trench on the side opposite the excavated trench material; allow some space between pipe to protect pipe ends.
- c) The pipe should be out of the way of any equipment in a location that will allow excavation to proceed uninterrupted.
- d) HDPE DWC Pipe shall be of SANGIR, KISAN, FINOLEX, DURALINE or equivalent approved by EIC.

RCC PIPE:

- a) The RCC S&S NP-4 pipes ISI Marked shall be supplied conforming to IS:458:1988 (Amended up to date) with anticorrosive bitumenastic paint of approved brand two or more coats (make Shalimar or equivalent) with ISI marked rubber ring/gasket lubricant etc.
- b) The laying and jointing of HDPE DWC pipes shall be done in accordance with I.S. 16098 (Part-II)-2013.
- c) The laying and jointing of RCC S&S pipes NP-4 shall be done in accordance with IS: 783: 1995 (Amended up to date) with hydraulic testing of sewer line.
- d) All pipes supplied shall be free from cracks, chipped ends and irregular angular space between pipes and socket /spigot end and should have smooth interior finish. All pipes shall be subjected to sound test by a suitable wooden hammer and ensured against invisible cracks. Any defective pipe, even after lowering into the trench shall be rejected and shall be immediately removed from site. The storage of pipes at site shall be in accordance with the provisions of ISS 4032-1977.
- e) The pipe shall be lifted towards alignment of sewer line covered and laid in the trenches, in the manner specified with equipments like chain-pulley etc. all arrange by the contractor. Any pipe damaged during above operation shall be removed and replaced by the contractor at his cost. Any material falling into the trench while lowering or otherwise shall be removed and trenches shall be kept clear all the time.
- f) The pipes fittings and other construction material shall be placed along the alignment in advance with utmost care during transit so that they are not damaged. Any damage due to these reasons shall be Contractor's liability.
- g) Laying of the pipe prior to install the pipe bedding in the pipe trench, the Trench Bottom Level (TBL) shall be checked to confirm the slope and relative depth with respect to design level and got it approved from the Engineer. At first stage bedding shall be done up to pipe bottom level and same shall be checked before laying the pipe. At second stage the remaining bedding shall be done with proper careful compaction and finally the pipe top level shall be checked to confirm the proper slope.
- h) All the sewer lines are to be laid perfectly true both in alignment and to gradient specified. In case of spigot and socket pipe, the socket end of the pipe shall face upstream.
- i) The sewer lines shall be laid such that the making on pipes appears at the top of the pipes.
- j) Properly fitted temporary wooden stoppers shall be provided to close the ends of all incomplete sewer line. The stoppers are only to be removed when pipes are being laid and jointed. Opening of sewer at end of day's work shall be capped and sealed.
- k) Sewer pipe laying and jointing shall be started and completed only section wise as per the instruction of the Engineer-in-charge. The sections shall be chosen manholes to manhole. However in unavoidable circumstances the section of sewer line shall be changed as per site condition and as directed by Engineer. The work of sewer line laying, manhole construction and vent shaft shall be done simultaneously so that all the necessary testing can be done efficiently. The construction of the works should progress from downstream end (i.e. the discharge point) and proceed towards upstream. Also, as the work to facilitate the house sewer connection shall be done simultaneously, it will help in the commissioning of the works. As far as possible the testing of pipeline shall be done from manhole to manhole.
- l) The bedding for sewer lines shall be provided as specified in the drawings and as per direction of the Engineer.
- m) After 24 Hrs. of PCC bedding and laying of pipe line the trench shall be filled up to top of pipe with moist soil. The trench can be filled up to the top of the pipe level with moist soil to ensure curing of concrete and then after testing of sewer line, trench should be filled. In the duration before filling the trench, soil should be kept moist to ensure adequate curing.
- n) All the testing of sewer lines and other appurtenances, at both factory and site shall be carried out in presence of the Engineer or his representative.
- o) Special arrangements such as cranes, tripods with chain pulley block for lowering the pipes and fittings shall be made by contractor at his own cost. In no case pipes and fittings shall be dropped.
- p) The payment for the sewer lines and manholes shall be made only after satisfactory testing of the works, as directed by the Engineer.
- q) The reinstatement of road/footpath shall be done as specified and as per the requirements of the local authorities, on completion of all the works.

6.5 CONSTRUCTION OF MANHOLE CHAMBER AND TESTING FOR WATER TIGHTNESS.

- a) The manholes shall be circular and constructed as RCC insitu for varying invert depths as per design and specification. The manholes shall generally conform to relevant I.S. and departmental specifications. The location of manhole shall be as per the drawing or layout given by the Engineer-in-charge or as directed by the Engineer-in-charge. The Manhole dimensions and other details shall be as per the enclosed drawing. The location of manholes shall be as per drawing or layout given by the Engineer-in-charge.
- b) The inspection and testing of manhole chambers frames and covers shall be done at factory in presence of Engineer or his representative or shall be got done through third party inspection. The load test for covers shall be done in accordance with Table 1 of IS 12592 (Part -I).
- c) The entire height of the manhole shall be tested for water tightness as per CPHEEO Manual or relevant IS code. The required water for testing and any other requirements shall be arranged by the Contractor at his own cost. .
- d) The testing shall be preferably be done between manhole to manhole lengths. In case of steep slopping sewers, the test pressure at lower end of pipe, length tested should not exceed the allowable static pressure,

the pipe length should be subdivided, and plug at end shall be effectively fixed. The pipe length under test shall be charged gradually. The pipe length under test should remain filled with water at least 24 hrs. Before testing.

- e) Any defect noticed during the testing shall be immediately repaired removed and replaced. The testing should again be repeated if it satisfies above requirements. The test water should be left in pipe during bedding and back filling operations.

6.6 MAKING CONNECTION WITH EXISTING SEWER.

- a) The connections in the existing sewer where required as per working drawings shall be made by cutting precast manhole walls preferably by using core cutting machine or other suitable means as specified by Engineer-in-charge.

6.7 WORK TO FACILITATE HOUSE SEWER CONNECTION:

The work involves the laying of 110mm dia PVC (SWR) Grade 'B' pipes (make KISAN/FINOLEX) from the street manholes to property boundaries / roadside chambers to the as per drawings, site layout and as directed by the Engineer-in-charge to facilitate house sewer connections. UPVC pipes are to be plugged with end cap and concrete post near the property boundaries as shown in the Drawing and / or as directed by the Engineer.

No work shall be carried out inside the property boundaries.

6.8 OTHER SERVICES

Contractor shall take the necessary precautions to avoid the damage to other services such as water supply lines, telephone cables, electrical cables, storm water drains etc. In case of any damages to any of the services, Contractor shall be responsible for restoring the facilities in bare minimum time at his own cost.

6.9 SPECIFICATION FOR RCC ECCENTRIC CONICAL PIECE IN M40 GRADE.

The work involves construction of Pre-cast RCC M-40 grade circular manhole chamber of designated diameter 1000/1200/1500 for various invert depths including required excavation of earth in all types of soils such as murrum, sand, sandy silt, black cotton soil, hard soil, kankar etc. disposing of surplus excavated material within a lead of 50 meter. The work includes laying of 150 mm thick plain cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size) 1600/1800/2100 mm diameter bedding in foundation, providing and laying of plain cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate) in channel & circular starter base wall up to 50 mm above outer dia. of sewer pipe and P&F in position of 125 mm thick 150/225 mm high Pre-Cast M-40 grade cement concrete ring at bottom and consecutive standard size 300 mm high rings. The work includes P&F pre-cast reinforced cement concrete eccentric conical piece of M40 grade, 125 mm thick having 560 mm and 1000/1200/1500 mm internal diameter at top & bottom respectively, fitted with Ferro-cement cover of 33 kg cast iron double seal ring & frame (heavy-duty) etc to withstand for class AA loading including supply and fixing of Ferro-cement foot steps and sealing of all joints with cement mortar 1:1 complete job as per detailed specifications, drawings and directions of Engineer-In charge.

The height of the M-40 grade cement concrete circular rings of manhole can be increased only after the approval of Engineer-in-Charge subject to a maximum height of 1.20 m for which no extra payment shall be made to the contractor.

6.9.8.1 TOP ECCENTRIC CONICAL PIECE.

- a) Providing and fixing of Pre-cast RCC M-40 grade concrete eccentric conical piece for manhole manufactured using Weight Batching Plant.
- b) Only Design Mix Concrete of Grade M-40 shall be used.
- c) Shape:- Eccentric frustum of cone of designated diameter and thickness as per the enclosed drawings and specifications
- d) Testing: Apart from the usual strength test on of the concrete mix non-destructive test for strength of the concrete is to be carried out on sample piece of pre-cast manhole elements as per the instruction of engineer-in-charge.

6.9.8.2 CIRCULAR RINGS.

- a) Providing and fixing of Pre-cast M-40 grade cement concrete circular rings for manhole chambers manufactured by using Weight Batching Plant.
- b) Only Design Mix Concrete of Grade M-40 shall be used.
- c) Shape:- Circular in shape with end keys at top and bottom of designated diameter, height and thickness as per the enclosed drawings and specifications. The height of rings can be increased in the multiples of 30cms after inspection and approval of Engineer-in-Charge.
- d) Testing: Apart from the usual strength test on of the concrete mix non-destructive test for strength of the concrete is to be carried out on sample piece of pre-cast manhole elements lot as per the instruction of engineer-in –charge.

- 6.9.8.3** The contractor shall be responsible for the quality of the works during the executions of works with good Engineering practices. He shall, therefore, have his own independent and adequate setup for

ensuring the same.

7.0 CONTRACTOR'S STAFF AND EQUIPMENT

- a) The contractor shall employ for the execution of the work only such persons as are skilled and experience in all activities required for the completion of the work, from reconnaissance surveys to detailed design, manufacturing, and execution and testing to commissioning.
- b) The contractor shall provide either one graduate or one diploma Engineer to supervise the construction of the work and to act as the contractor's Representative. The Engineer shall be B.E. Civil Eng. with minimum 1-year experience or a diploma in Civil Eng. with minimum 3 years experience in the field of sewer line work. The contractor shall also provide sufficient skilled, semi-skilled and un-skilled labor as are necessary to ensure completion of the various sections of the work in the time required the contractor shall not deploy/remove any supervisory staff or Labour from the site without approval of the Engineer in charge.
- c) The Engineer in charge shall be at liberty to object and direct the contractor to remove from the work any person who in the opinion, of the engineer in charge misconduct himself or is incompetent or negligent in the proper performance of his duties such person shall not be again employed without permission of the engineer in charge.
- d) The contractor shall at all times during progress of the work take all requisite precautions and use his best endeavors to prevent any notorious or unlawful behavior by or amongst the workers and other persons employed on the works and for the preservation of peace and protection of the inhabitants and the security of property in the neighborhood of the work.
- e) The contractor shall, if required by the Engineer in charge deliver to him a return in detail in such form and at such intervals as the Engineer in charge may prescribe, showing the supervisors and Labour employed by the contractor on the site The contractor shall make his own suitable arrangements for lodging and boarding of his, Labour supervisors and engineers

8.0 PROGRESS OF WORK

All components of works shall ensure a logical sequence of supply, installation, testing, and commissioning. If any supply of a material is made, not in conformity to the logical sequencing of the work component, no payments will be entitled against such supplies and installations.

Executive Engineer (PHE-I)
JDA, Jaipur

Section A-5

Annexure

Compliance with the code of Integrity and No Conflict of Interest

Any person participating in a procurement process shall –

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) Not misrepresent or omit the misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) Not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) Not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- (e) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) Not obstruct any investigation or audit of a procurement process;
- (g) Disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

Conflict of Interest :-

The Bidder participating in a bidding process must not have a Conflict of interest.

A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

i. A Bidder may be considered to be in Conflict of Interest with one or more parties in a bidding process if, including but not limited to:

- a. Have controlling partners/shareholders in common ; or
- b. Receive or have received any direct or indirect subsidy from any of them; or
- c. Have the same legal representative for purposes of the Bid; or
- d. Have a relationship with each other; directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Entity regarding the bidding process; or
- e. The Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or
- f. The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or
- g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.

Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted to for procurement of in response to their Notice inviting Bids No.Dated

I/We hereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that :

1. I/We possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/We have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
3. I/We are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceeding for any of the foregoing reasons;
4. I/We do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement Contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/We do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date :
Place :

Signature of bidder

Name :
Designation :
Address :

Grievance Redressal during Procurement Process

The designation and address of the **First Appellate Authority is Commissioner, JDA Jaipur.**

The designation and address of the **Second Appellate Authority is Executive Committee (E.C.), JDA Jaipur.**

(1) Filing an appeal

If any Bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued there under, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings:

Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

(2) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall Endeavour to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

(4) Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- (a) Determination of need of procurement;
- (b) Provisions limiting participation of Bidders in the Bid process;
- (c) The decision of whether or not to enter into negotiations;
- (d) Cancellation of a procurement process;
- (e) Applicability of the provisions of confidentiality.

(5) Form of Appeal

(a) An appeal under para (1) or (3) above shall be in the annexed form along with as many copies as there are respondents in the appeal.

(b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.

(c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

(6) Fee for filing appeal

(a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.

(b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

(7) Procedure for disposal of appeal

(a) The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.

(b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,-

(i) Hear all the parties to appeal present before him; and

(ii) Peruse or inspect documents, relevant records or copies thereof relating to the matter.

(c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.

(d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

FORM No. 1

[See Rule 83]

**Memorandum of Appeal under the Rajasthan
Transparency in Public Procurement Act, 2012**

Appeal No. of Before the
..... (First/Second Appellate Authority)

1. Particulars of appellant :

(i) Name of the appellant :

(ii) Official address, if any :

(iii) Residential address :

2. Name and address of the respondent (s) :

(i)

(ii)

(iii)

3. Number and date of the order appealed against and name and designation of the officer/authority who passed the order (enclose copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:

5. Number of affidavits and documents enclosed with the appeal :

6. Grounds of appeal :

(Supported by an affidavit)

7. Prayer :

Place

Date

Appellant's Signature

Additional Conditions of Contract**1. Correction of arithmetical errors**

Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- i. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- ii. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected ; and
- iii. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

2. Procuring Entity's Right to Vary Quantities

- (i) At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit prices or other terms and conditions of the Bid and the conditions of contract.
- (ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- (iii) In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the supplier fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the supplier.

3. Dividing quantities among more than one Bidder at the time of award (In case of procurement of Goods)

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

**Signature of Contractor
with full address & Mobile No.**

**Executive Engineer (PHE-I)
JDA, Jaipur**

ANNEXURE- I

[Reference Clause 3(i)]

Signed
Photograph of
Applicant

To be given on Non-Judicial stamp
Paper of Rs. 10/- only,

AFFIDAVIT

**I/We..... Proprietor/ Partner/ Authorized
signatory of M/s under take the oath that the
information furnished by me/us in schedule I to VII of the assessment Bid for
..... is correct to the best
of my/our knowledge and nothing has been concealed by me. I acknowledge that if
in future any information furnished by me is found incorrect I will be solely
responsible and shall be punished as per the law and also any benefits in any form
obtained by me shall be recoverable.**

.....
Proprietor/ Partner/ Authorized signatory
M/s

Note:-

The applicant has to enclose a self attested photo identity card with the above affidavit.

ANNEXURE- II

Bank Guarantee Performa for Bid security deposite

Form of (Bank Guarantee) -En cashable at branch of the bank in Jaipur City.

To
Secretary,
Jaipur Development Authority,
Jaipur

Sub:

Bank Guarantee No. _____ dated _____ for [amount of Security in figures] [in words] on behalf of _____ [Name of the Bidder] against the Security Deposit for the work of
“Rate Contract for Providing, Laying & Jointing of lateral Sewer line with construction of precast RCC Manhole in Various colonies for 1 year under PHE-I Jurisdiction, JDA, Jaipur”

WHEREAS, _____ [name of Bidder with address] (**hereinafter called “the Bidder”**) has submitted his Bid dated for the work of “Rate Contract for Providing, Laying & Jointing of lateral Sewer line with construction of precast RCC Manhole in Various colonies for 1 year under PHE-I Jurisdiction, JDA, Jaipur” (**Name of Work**) (Hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that we _____
_____ (Name of Bank) of having our registered office at _____ [name of country] having our registered office at _____ (hereinafter called “the Bank”) are bound unto Secretary, Jaipur Development Authority. (Hereinafter called “the Employer”) in the sum of Rupees _____ [**Amount of Security in figures**] _____ (in words) only for which payment will and truly to be made to the said Employer, the Bank binds itself, its successors, and assigns by these presents.

That on demand of JDA , this Bank Guarantee is encashable at following branch in Jaipur City.

1. Name of Bank:
2. Name of the branch with branch code:
3. Address:
4. E-Mail Id:
5. Telephone No.
6. Fax No.:

SEALED with the Common Seal of the said Bank this _____ day of _____ of 20____.

THE CONDITIONS of this obligation are:

- (1) if the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid;
- (2) if the Bidder refuses to accept the correction of errors in his bid;
- (3) If the Bidder, having been notified of the acceptance of his Bid by the Employer during the period of Bid validity;

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders,
or

(b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or more of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 30 days after the date of expiration of the Bid Validity, as stated in the Instructions to Bidders, or any such extension thereto as may be agreed by the Bidder, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

The amount covered under the above Bank Guarantee shall be automatically be credited in the accounts of JDA in ICICI Bank, JDA Campus, Jaipur through ISFC code No ICICI 006754. Bank Account No. 675401700518 on the date of expiry or its validity, unless the agencies get it re-validated well before its expiry date or produce NOC from JDA in written for its release.

Date _____ Signature of the Bank _____

Witness _____ Seal _____

[Signature, Name and Address]

[Note: To be furnished on appropriate non-judicial stamps.]

PAYMENT MECHANISM FOR PARTICIPATING IN TENDER

Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security) Tender fee online through JDA portal. The bid security options available in tender for participants are as mentioned below :

A. Payment Options:

Option-1: Bank Guarantee (BG). against EMD / Bid Security

Bidder may opt Bank Guarantee (BG) against EMD (Bid Security) for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee). This amount will be paid through **Payment Gateway only**, option to make balance payment through EFT (RTGS/NEFT) will not be available

If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT/RTGS) will be available

Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS)

If the bidder selects payment mode as EFT (NEFT/RTGS) **"Paying Slip for EFT (NEFT/RTGS)"** will be generated by the system for the complete amount. The payment can be made from **any Bank any Branch** using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 2 days prior to closing date of bid participation.

Option-3: Payment Gateway (Aggregator)

The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from **anywhere any time** till the closing date & time of bid participation

B. Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the **"Bid Participation Receipt"** will be generated on real time basis
- In case complete payment is done through Payment Gateway, on successful transaction the **"Bid Participation Receipt"** will be generated on real time basis
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) **"Bid Participation Receipt"** will be available on Login of Bidder on JDA portal.

Executive Engineer (PHE-I)
JDA, Jaipur

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

No. JDA/Ex.En. (TA to Dir. Engg.-I)/2016/D-29

Dated: 11/3/2016

Office Order

Subject: - DLP period for various type of works.

As per the decision taken in the 201st meeting of Executive Committee held on 23.02.2016 w.r.t. agenda no. 201:22, DLP period of various natures of works amounting more than Rs. 25 lakhs has been revised as per following time periods based on nature of works.

This order will supersede the earlier orders issued in this regard i.e. order No. JDA/TA to D(E)/2010-11/D-317 dated 28.04.2011 including Special Condition No. 2.2.2 & 2.2.3 of Annexure-I related to SD refund & forfeiture (other Special Condition of annexure-I of this order will remain valid) and order No. JDA/Ex.En.(Pr.-5 & TA)/2013/D-43 dated 27.02.2013 and also all pertaining orders, in contract agreements or in PWF&AR having DLP period different than what is being enforced through this present order for concerned type of work.

Table-I

S.No.	Type of Work	Existing DLP Period	As per approved in E.C. held on 23.02.2016
1.	Bridge Work	3 years	5 Years
2.	CD Work	3 years	5 Years
3.	CC Road, PQC Work	3 years	5 Years
4.	CC tiles/Kerbs/medians	3 years	5 years
5.	Drains	6 months	3 years
6.	Roads		
	(i) Two layer WBM/CSB	3 years	6 Months or one full rainy season whichever is later
	(ii) For Renewal/Strengthening		
	(a) BT upto 30 mm thickness	3 years	1 year
	(b) BT above 30 mm to upto 40 mm	3 years	2 years
	(c) BT above 40 mm to upto 90 mm	3 years	3 years
	(d) ET Above 90 mm	3 years	5 years
	(iii) New Roads		
	(a) BT upto 90 mm	3 years	3 years
	(b) BT more than 90 mm	3 years	5 years
7.	Compound wall	6 months	3 years
8.	Buildings work		
	(i) Work pertaining to Sanitary works electrical works, joinery works and painting works.	6 months	2 years
	(ii) Work pertaining to Building structure and other civil works.	6 months	5 years
9.	Electric work except maintenance	6 months	3 years
10.	Sewer/Water supply all including STP and water supply related work except maintenance works.	6 months	3 years <i>14</i>

The release of SD amount shall be as per following table:-

Table-II

S. No.	Released SD DLP period	1 st year	2 nd year	3 rd year	5 th year
1.	Upto 1 year	100%	40%	20% ✓	10%
2.	Upto 2 year		60%	20% ✓	10%
3.	Upto 3 year			60% ✓	10%
4.	Upto 4 year				20%
5.	Upto 5 year				50%

Various conditions for managing DLP are as under:-

- (i) At the time of completion of work, final component shall be worked out for each individual item like BT/CC/tiles/drains etc (as per different categories in Table I), DLP shall be operative based upon type of individual item ex:- CC-5 years, BT- 1/2/3/5 years, Drain- 3 years etc.
- (ii) Similarly for all new works, these components should be calculated at the time of TS itself, which should be made part of BID document.
- (iii) If any work, amount is less than Rs. 25 lakhs but later on due to extra/excess work, if amount of final work crosses more than Rs. 25 lakhs, DLP shall be operative as per rule for each individual item.
- (iv) Similarly if any work is more than Rs. 25 lakhs but after finalization amount of work is less than Rs. 25 lakhs, DLP should be operative for six months or rainy season whichever is late.
- (v) During DLP period if contractor fails to repair any work even after issue of 7 days written notice, same work shall be got executed by respective Executive Engineer at the contractor's risk and cost. This process shall be applicable throughout the DLP period. After completion of DLP period in such works contractor should be debarred and blacklisted from JDA for three years as per RTTP Rule 2012 and 2013 where he defaults twice in a single agreement or in two different works.
- (vi) Quarterly Inspection as per rules shall be carried out and DLP registers shall be maintained by respective Executive Engineers to monitor the DLP repairs.
- (vii) Special and regular inspection shall also be carried out as per order no. JDA/Ex.En & TA to DE-I/2014-15/D-223 dated 12.03.2015 and order no. SE (PMGSY) CIRCULAR 2006/D-115 dated 04.05.2006 Point no. 3.
- (viii) In case JDA feels to take up work on any existing DLP road due to any reason, following procedure should be adopted:
 - (a) At the time of withdrawal total liability of repairs as per DLP conditions to be carried out and contractor shall be asked to complete the same. After completion of assessed repairs DLP period shall be released after deduction amt. as per table III.

Table-III

% Recovery on Withdrawal of DLP, of work order DLP period	1 year	2 year	3 year	4 year	5 year
1 year	1.12	-	-	-	-
2 year	2.55	1.43	-	-	-
3 year	4.38	3.26	1.83	-	-
5 year	9	7.88	6.45	4.62	2.47

Note:- Calculation is to be done on quarterly basis.

(b) In case Contractor fails to carry out these repairs, same shall be carried out at his risk and cost. If the total amt. of such repairs works out to be more than total retained amt. of SD, same shall be recovered from other works and as per PDR rules. The amount as per Table III is also to be deducted in addition to this amount.

(ix) Based upon type of work, DLP conditions for works to be carried out during DLP period with their frequency of respective type of work shall be prepared by respective SE's after approval of these periods.

This order shall come in force with immediate effect and will be applicable on all new works whose NIB is to be called.

Sd/-
Director (Engineering-I)
JDA, Jaipur

Copy to following for information and necessary action:-

1. PS to IDC, JDA, Jaipur.
2. PS to Secretary, JDA, Jaipur.
3. Director Engineer I/II, JDA, Jaipur.
4. Director (Fin.), JDA, Jaipur.
5. C.F, JDA, Jaipur.
6. All Add. Chief Engineers, JDA, Jaipur.
7. All Superintendent Engineers, JDA, Jaipur.
8. OSD (RM), JDA, Jaipur.
9. Additional Director (REV.&DP.)
10. CAO (P&A) JDA, Jaipur.
11. Sr. Horticulturist, JDA, Jaipur
12. All Executive Engineer, JDA, Jaipur.
13. DD (E&B) JDA, Jaipur.
14. All AOs, JDA, Jaipur.
15. All AAOs, JDA, Jaipur.
16. System Analyst
17. All Contractors' Association, JDA, Jaipur.
18. Guard file

Sd/-
S.E. & TA to Dir. (Engg.-I)
JDA, Jaipur

Jaipur Development Authority, Jaipur

Office Order

No. : JDA/IT(1074501)/E-Services/2015-16/D-399

Dated: 4-10-2016

Subject: Payment mechanism for participating in tender.

Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security), Tender Fee and RISL processing fee online through JDA Portal. The bid security options available in tender for participants are as mentioned below:

A. Payment Options:**Option-1: Bank Guarantee (BG) against EMD / Bid Security**

Bidder may opt Bank Guarantee (BG) against EMD (Bid Security), for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee + RISL Processing Fee). This amount will be paid through **Payment Gateway only**, option to make balance payment through EFT (RTGS/NEFT) will not be available.

If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT / RTGS) will be available.

Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS)

If the bidder selects payment mode as EFT (NEFT/RTGS), "Paying Slip for EFT (NEFT/RTGS)" will be generated by the system for the complete amount. The payment can be made from **any Bank any Branch** using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 2 days prior to closing date of bid participation.

Option-3: Payment Gateway (Aggregator)

The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from **anywhere any time** till the closing date & time of bid participation.

B. Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR.

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis.

- In case complete payment is done through Payment Gateway, on successful transaction the **"Bid Participation Receipt"** will be generated on real time basis.
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) **"Bid Participation Receipt"** will be available on Login of Bidder on JDA portal.

This payment mechanism will come into force w.e.f 15/10/2016. Thereafter, old payment mechanism related to NEFT/ RTGS in which the bidder makes direct payment without **"Paying Slip for EFT (NEFT/RTGS)"** in JDA's bank account will be discontinued.

All procuring entities are hereby directed to clearly mention this procedure in NIB document.


(Pawan Arora)
Secretary

Copy for information and further necessary action to:

1. P.S. to JDC, JDA, Jaipur.
2. P.S. to Secretary, Secretary, JDA, Jaipur.
3. Director (Law / Finance / Town Planning / Engineering-I / Engineering-II), JDA, Jaipur.
4. All Additional Chief Engineer _____, JDA, Jaipur
5. DC (Administration)/DC(Store)/DC (Vehicle), JDA, Jaipur
6. System Analyst, JDA, Jaipur
7. Analyst-cum-Programmer, JDA to ensure integration of software w.e.f 01/10/2016.
8. All Xen _____, JDA, Jaipur.
9. Officer-in-charge, SPPP Portal, Jaipur.
10. OSD (Public Relation) / PRO, JDA, Jaipur.


(Brijesh Kishore Sharma)
OSD (RM)

जयपुर विकास प्राधिकरण, जयपुर

क्रमांक :- F-()JDA/Sr.Ao.works-II/2017/D-

172

दिनांक :-

12.7.17

आदेश

1 जुलाई 2017 से भारत सरकार के नोटिफिकेशन द्वारा GST लागू होने के कारण व्यक्तियों/फर्म/कम्पनी/संस्था/टेकेदार के निर्माण/सिविल आपूर्ति/सेवाओं इत्यादि के कार्यों के प्राधिकरण द्वारा बिल भुगतान किये जाने के लिये प्राधिकरण कर सलाहकार चार्टर्ड एकाउन्टेन्ट से प्राप्त हुई राय के क्रम में निम्नांकित प्रमाण पत्र/शपथ पत्र/Invoice बिलों के साथ प्रस्तुत किया जाना सुनिश्चित करावे :-

1. व्यक्ति/फर्म/कम्पनी/संस्था/टेकेदार का GST के अन्तर्गत रजिस्ट्रेशन प्रमाण पत्र की स्व:प्रमाणित फोटो प्रति।
2. व्यक्ति/फर्म/कम्पनी/संस्था/टेकेदार का GST के रजिस्ट्रेशन नहीं होने के स्थिति में स्व:प्रमाणित शपथ पत्र।
3. अपंजीकृत व्यक्ति/फर्म/कम्पनी/संस्था/टेकेदार के बिलों के भुगतान की स्थिति में मासिक टैक्स Invoice भुगतान-आधिकारी द्वारा मासिक आधार पर उसी माह के अंत में तैयार करवाया जाना सुनिश्चित किया जावेगा।
4. आपूर्ति एवं सेवा के विरुद्ध भुगतान बिलों में Vat/Service Tax चार्ज होने (Vat/Service Tax होने) पर (दिनांक 30.06.17 तक आपूर्ति एवं Invoice जारी करने पर) Taxable Invoice नहीं बनाया जावेगा एवं इनका भुगतान पूर्वानुसार (01.07.2017 से पूर्व निहित प्रक्रिया अनुसार) किया जाना सुनिश्चित करावे।

स्पष्टीकरण :- दिनांक 30.06.17 तक सामान की आपूर्ति के बिलों में Vat Invoice होने पर या अन्यथा होने पर इनका भुगतान पूर्वानुसार 01.07.2017 से पूर्व निहित प्रक्रिया अनुसार किया जावेगा।

संलग्न :- GST रेट तथा HSN/SAC CODE की फोटो प्रति

(बृजेश किशोर शर्मा)
निदेशक(वित्त)

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु :-

1. वरिष्ठ निजी सचिव, आयुक्त, जविप्रा, जयपुर।
2. वरिष्ठ निजी सचिव, सचिव, जविप्रा, जयपुर।
3. निदेशक (वित्त/विधि/अभियंत्रिकी-प्रथम व द्वितीय/आयोजना/परियोजना, जविप्रा, जयपुर।
4. अतिरिक्त आयुक्त(प्रशासन/पूर्व/पश्चिम/एल.पी.सी./भूमि), जविप्रा, जयपुर।
5. संयुक्त आयुक्त(सिस्टम मैनेजमेन्ट/संसाधन एवं समन्वय), जविप्रा, जयपुर।
6. विशेषाधिकारी(संसाधन विकास), जविप्रा, जयपुर।
7. अतिरिक्त निदेशक(राजस्व एवं सम्पत्ति निस्तारण), जविप्रा, जयपुर।
8. समस्त जौन उपायुक्तगण, जविप्रा, जयपुर।
9. मुख्य लेखाधिकारी(पी. एण्ड ए.), जविप्रा, जयपुर।
10. उपनिदेशक(व्यय एवं बजट), जविप्रा, जयपुर।
11. वरिष्ठ लेखाधिकारी(निर्माण-प्रथम/द्वितीय/आर.सी.आर./पेंशन/नीलामी), जविप्रा, जयपुर।
12. सिस्टम एनालिस्ट, जविप्रा, जयपुर को प्रेषित कर लेख है कि सिस्टम में GST नम्बर सम्मिलित करने एवं Tax Invoice बनाने की प्रक्रिया तैयार करावे।
13. उप रजिस्ट्रार(सहकारिता), जविप्रा, जयपुर।
14. अधिशाषी अभियन्ता जौन, जविप्रा, जयपुर।
15. वरिष्ठ उद्यानविज्ञ, जविप्रा, जयपुर।
16. लेखाधिकारी (भुगतान/योजना/निर्माण)/सहायक लेखाधिकारी, जविप्रा, जयपुर।
17. प्रभारी अधिकारी, नागरिक सेवाकेन्द्र, जविप्रा, जयपुर।
18. सलाहकार(जनसम्पर्क), जविप्रा, जयपुर।
19. रोकडिया(निर्माण/सिविल/भूमि आवृत्ति), जविप्रा, जयपुर।
20. रक्षित पत्रावली

अति.निदेशक(रा.एवं स.नि.)

SPECIAL CONDITIONS

1. If there is any typographical error or otherwise in the 'G' Schedule the rates given in the relevant BSR on which schedule 'G' has been prepared, shall prevail.
2. The contractor shall follow the contractor labour regulation and abolition Act 1970 & Rule 1971.
3. The JDA shall have right to cause on audit and technical examination of the work and the final bills of the contractor including all supporting vouchers, abstract etc. to be made within two years after payment of the final bills and if as a result such audit any amount is found to have been over paid/excess in respect of any work done by the contractor under the contract or any work claimed by him to have been done under this contract and found not to have been executed the contractor shall be liable to refund such amount and it shall be lawful for the JDA to recover such sum from him in the manner prescribed in special condition no. 8 or any other manner legally permissible and if it is found that the contractor was paid less than that was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be paid by the JDA to the contractor.
4. Tax exemption/ Tax liabilities if any shall be applicable as per prevailing government rule and bidder has to consider this while quoting the rates.
5. The contractor shall not work after the sunset and before sunrise without specific permission of the authority Engineer.
6. Whenever any claim against the contractor for the payment of a sum of money arises out of or under the contracts, the JDA shall be entered to recover the sum by appropriating in part or whole of the security deposit of the contractor. In the event of the security being insufficient or if no security has been taken from the contractor then the balance of the total sum recoverable as the case may be shall be deducted from any sum then due or which at any time there contract with the JDA should this sum be sufficient to recover the full amount recoverable, the contractor shall pay to JDA on demand the balance remaining due. The JDA shall further have the right to effect such recoveries under P.D.R. Act.
7. The rate quoted by the contractor shall remain valid for a period of 120 days from the date of opening of the tenders.
8. By submission of this tender the contractor agree to abide with all printed conditions provided in the PWD manual from 64 (Chapter 3-para 36) and subsequent modification.
9. No conditions are to be added by the contractor and conditional tender is liable to be rejected.
10. All transaction in the execution of this work and this tender will be liable to GST & other taxes levied by GOR & GOI.
11. If any Bid withdraws his Bid prior to expiry of said validity period given at S.No. 7 or mutually extended prior or makes modifications in the rates, terms and conditions of the tender within the said period which are not acceptable to the department or fails to commence the work in the specified period, fails to execute the agreement and fails to furnish performance guarantee the department shall without prejudice to any, other right or remedy, be at liberty to forfeit the amount of earnest money given in any form absolutely. If any contractor, who having submitted a Bid does not execute the agreement or start the work or does not complete the work and the work has to be put to re-bidding, he shall stand debarred from participating in bidding in JDA for Six Months in addition to forfeiture of Earnest Money / Security Deposit /Performance Guarantee and other action under agreement
12. Rules regarding enlistment of contractors provide that work upto five times limit for which they are qualified for tendering can be allotted to them. Therefore, before tender the contractors will keep this in mind, and submit the details of work. Bids with incomplete or incorrect information are liable to be rejected.
13. Any material not conforming to the specifications collected at site shall have to be removed by the contractor within a period of 3 days of the instructions, issued by the Engineer-Incharge in writing. Failing which, such material shall be removed by the Engineer-Incharge at risk and the contractor after expiry of 3 days period.
14. The material collected at site and paid provisionally shall remain under the watch and ward of the contractor till it is consumed, fully on the work.

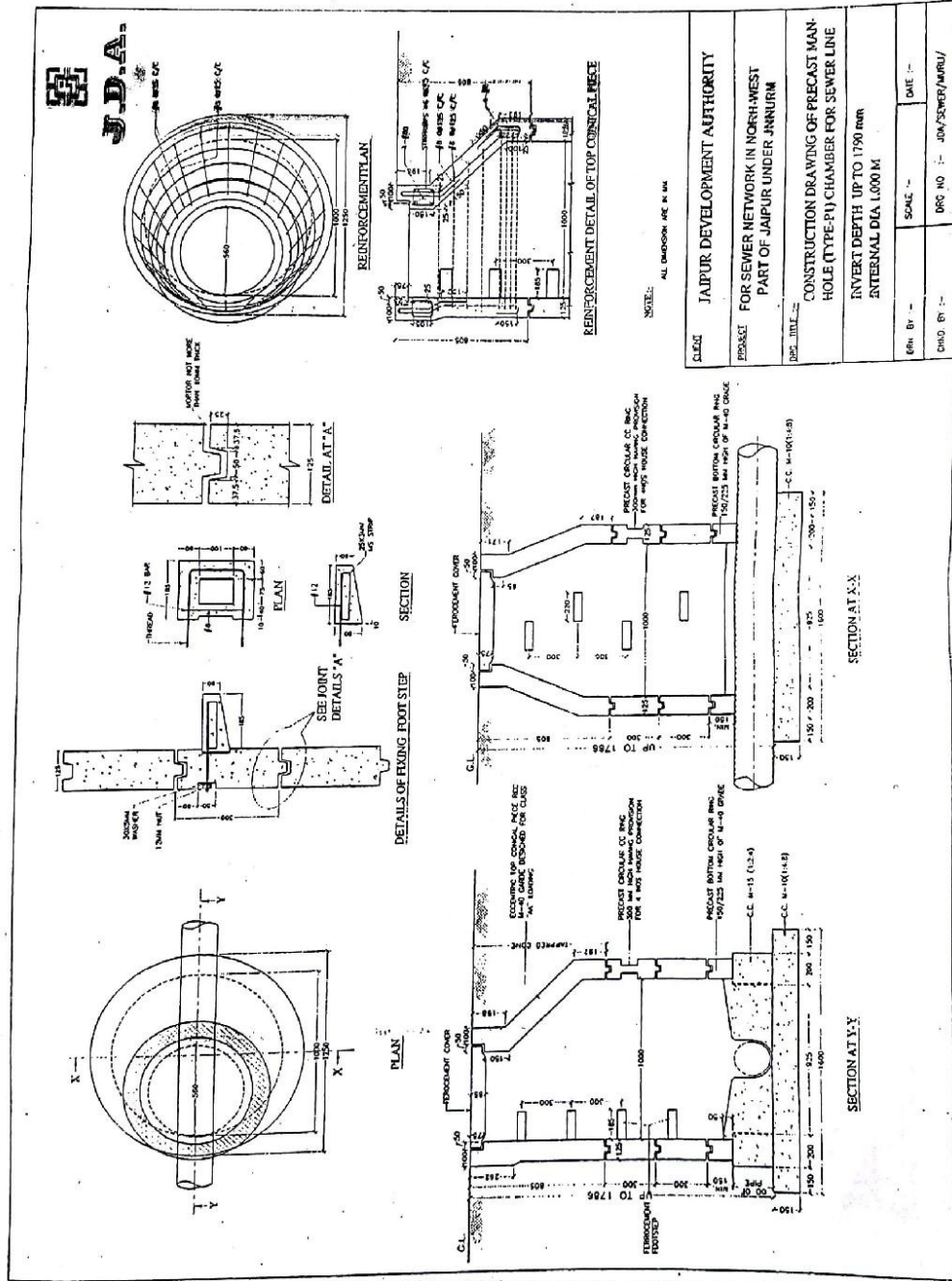
15. The rates provided in Bid documents are inclusive of all Taxes, royalty.
16. No extra lead of earth/material shall be paid over and above as specified in 'G' schedule. Source/borrow pit area for earth shall have to be arranged by the Contractor at his own cost.
17. Undersigned has full right to reject any or all Bids without given any reasons.
18. Mortar of Masonry work and lean concrete will be permitted mixer with hopper.
19. As per Supreme Court decision "All contracts with Governments shall require registration of workers under the building and other construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and extension of benefits to such workers under the act."
20. The Bidder are required to submit copy of their enlistment as contractor.
21. Conditions of RPWA-100 will be mandatory & acceptable to the contractor.
22. Any Bid received with unattested cutting/overwriting in rates shall be rejected and such bidder will be debarred from Bidding for three months in JDA.
23. All the provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules, 2013 will be applicable. If there is any contradictions in existing special conditions and provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and RULES, 2013 shall be applicable.
24. Time period of work can be increased as per RTPP Rules.

Signature of Contractor
with full address & Mobile No.

Executive Engineer (PHE-I)
JDA, Jaipur

Section A-6

Drawings

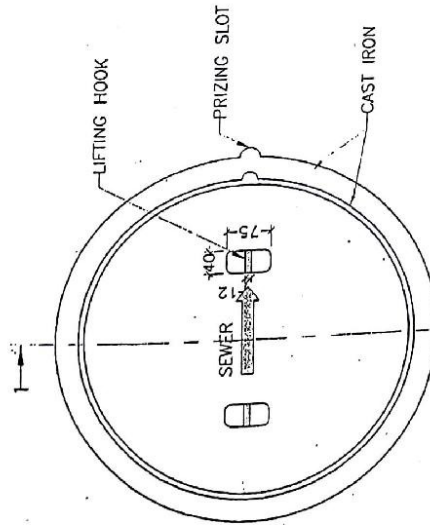
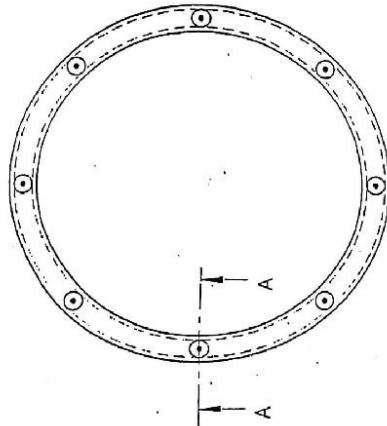


NOTE FOR M.H. COVER:-

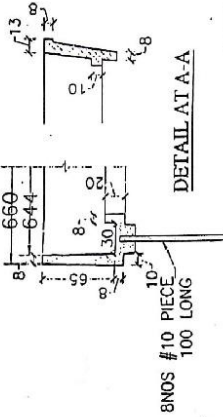
1. ALL DIMENSIONS ARE IN MM.
2. ALL REINFORCEMENT BARS TO BE RIBBED FOR STEEL CONFORMING IS 16-1786
3. SHOWS THE DIRECTION OF FLOW.
4. EXPOSED PORTION OF C.I. OR STEEL SHALL BE PAINTED WITH ANTI CORROSSIVE BITUMENSINIC PAINT.
5. BOTTOM OF THE COVER SHALL BE PAINTED WITH ANTI CORROSSIVE BITUMENSINIC PAINT.
6. COVERS SHALL BE ABLE TO WITH STAND THE TEST LOAD AS PER C.I. OR STEEL THAT IS 15-1726. TESTING OF COVERS SHALL BE DONE ON CONCRETE OR AN AREA OF 100MM DIA. SAT. UNFACTURE LOAD AND ULTIMATE ROAD 22MT.
7. FINISHING OF CASTINGS OF COVER AND FRAME RING SHALL BE DONE BY SAND BLASTING.
8. MINIMUM WEIGHT OF C.I. FRAME SHALL BE 18KG. MINIMUM WEIGHT OF C.I. RIM PART OF COVER SHALL BE 15KG.
9. LIFTING COP SHALL BE OF MINIMUM 4MM THICK. MS PLATE DIA OF LIFTING BAR SHALL BE 16MM.

NOTE FOR FOOT STEPS:-

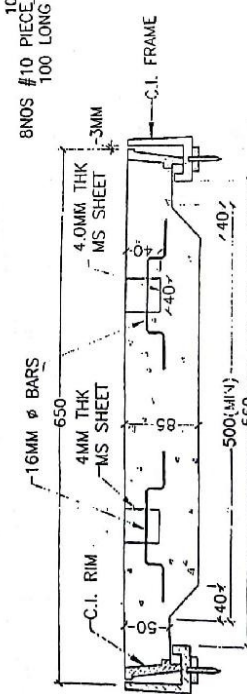
1. THE FOOT STEPS SHALL BE TESTED FOR UN-FACTURE LOAD OF 225KG AND ULTIMATE LOAD OF 1MT.
2. THE FOOT STEPS SHALL BE MANUFACTURED BY MICRO PRESSING METHOD AND AS PER DETAILED SPECIFICATIONS.



PLAN OF FERRO CEMENT COVER

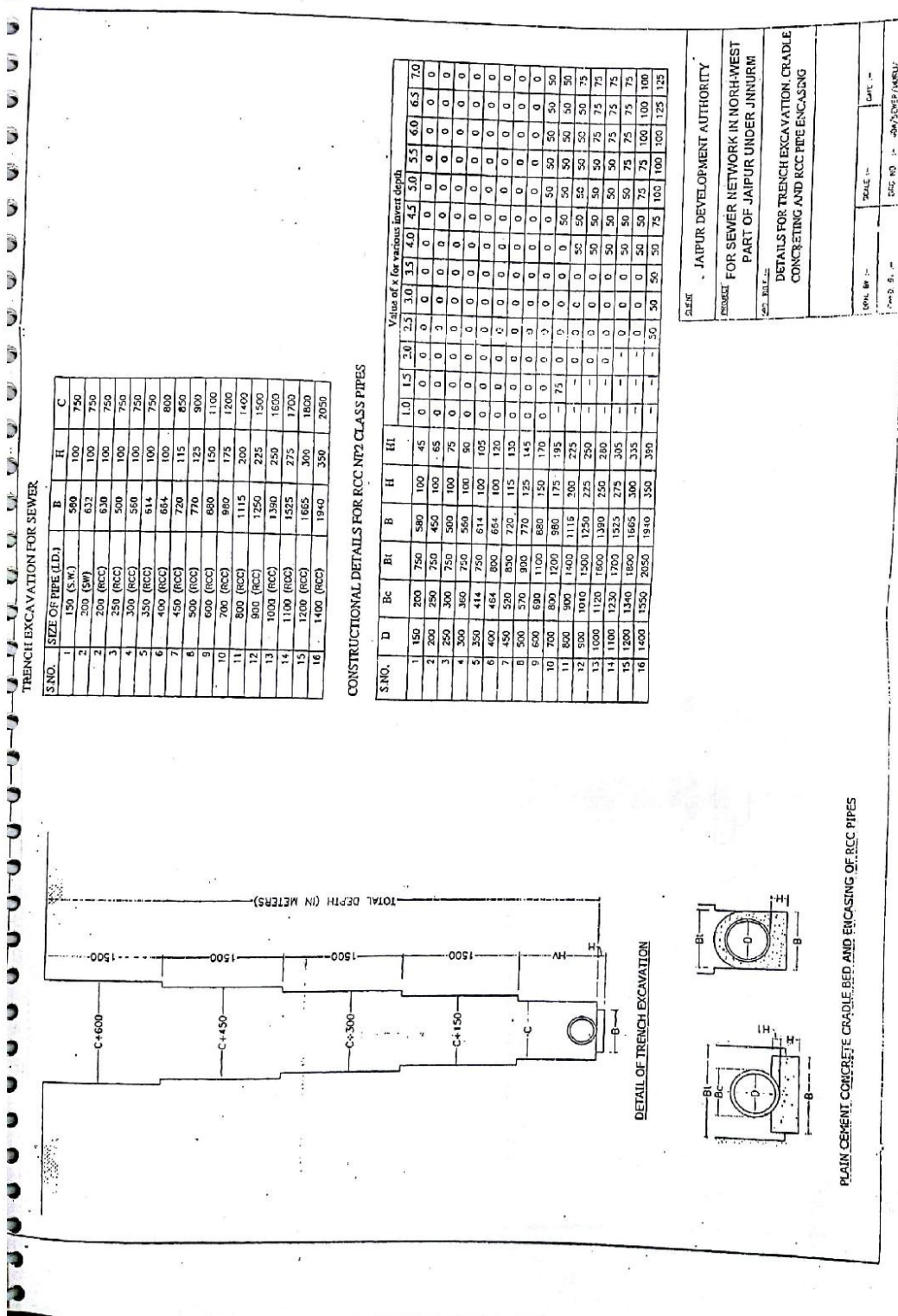


DETAIL AT A-A



SECTION AT 1-1

CLIENT	JAIPUR DEVELOPMENT AUTHORITY
PROJECT	FOR SEWER NETWORK IN NORTH-WEST PART OF JAIPUR UNDER JNNURM
DES. TITLE	DETAIL OF FERROCEMENT COVER WITH C.I. FRAME & RING
DRAWN BY :-	SCALE :-
	DATE :-



Section A-7

Bill of Quantities

JAIPUR DEVELOPMENT AUTHORITY

Name of work: Rate Contract for Providing, Laying & Jointing of lateral sewer line with construction of precast RCC Manhole in various colonies for 1 year under PHE-I Jurisdiction, JDA, Jaipur .

Estimate

Based on JDA BSR 2016, PHE BSR and approved Non BSR Item

S. No.	Particular	Unit	Rate	Qty.	Amount
1	Providing, laying and jointing of 200 mm diameter full round HDPE DWC (double wall corrugated) pipes of SN8 grade as per IS 16098 (Part 2) amended upto date in trenches with providing & laying 10 cm thick and 63 cm wide granular bedding with graded hard crusher broken stone aggregate 20 mm (nominal size) bedding in complete including all material, labour, hydraulic testing of sewer line including cost of water and equipment required for testing & commissioning as per Technical Specifications, drawings and as per direction of Engineer. The work includes earth work in all type of soil such as murrum, sand, sandy silt, black cotton soil, hard soil, kankar etc. including disposing off surplus excavated material within a lead of 50 meter including cost of close timbering beyond 1.50 meter average invert depth, shoring and strutting and refilling of trenches with excavated material, watering and ramming in layers as per PWD specifications complete in all respect and as per direction of Engineer-in-charge for following average invert depths:				
1.01	At av. Depth 0.6 meter [From 0.60 m to 0.89 m]	Mtr.	540.00	630.000	340200.00
1.02	At av. Depth 0.9 meter [From 0.90 m to 1.19 m]	Mtr.	564.00	3310.000	1866840.00
1.03	At av. Depth 1.2 meter [From 1.20 m to 1.49 m]	Mtr.	589.00	1470.000	865830.00
1.04	At av. Depth 1.5 meter [From 1.50 m to 1.79 m]	Mtr.	613.00	820.000	502660.00
1.05	At av. Depth 1.8 meter [From 1.80 m to 2.09 m]	Mtr.	818.00	595.000	486710.00
1.06	At av. Depth 2.1 meter [From 2.10 m to 2.39 m]	Mtr.	872.00	400.000	348800.00
1.07	At av. Depth 2.4 meter [From 2.40 m to 2.69 m]	Mtr.	937.00	430.000	402910.00
1.08	At av. Depth 2.7 meter [From 2.70 m to 2.99 m]	Mtr.	1003.00	295.000	295885.00

2	Providing, laying and jointing of 200 mm diameter RCC S&S NP-4 pipes ISI Marked conforming to IS:458:1988 (Amended up to date) with anticorrosive bitumenastic paint of approved brand (2 or more coats) and make shalimar or equivalent) with ISI marked rubber ring/gasket lubricant etc including P/ 10 cm thick and 46 cm wide granular bedding with graded hard crusher broken stone aggregate 20 mm (nominal size) bedding and haunching upto 1/4 of outer diameter of pipe of sewer and laying RCC S&S pipes confirming to IS: 783: 1995 (Amended up to date) with hydraulic testing of sewer line including cost of water and equipment required for testing. The work includes earth work in all type of soil such as murrum, sand, sandy silt, black cotton soil, hard soil, kankar etc. including disposing off surplus excavated material within a lead of 50 meter including cost of close timbering beyond 1.50 meter average invert depth, shoring and strutting and refilling of trenches with excavated material, watering and ramming in layers as per PWD specifications complete in all respect and as per direction of Engineer-in-charge for following average invert depths: (D-142 Dt. 28.04.2008)				
2.01	At av. Depth 3.0 meter [From 3.00 m to 3.29 m]	Mtr.	731.00	110.000	80410.00
2.02	At av. Depth 3.3 meter [From 3.30 m to 3.59 m]	Mtr.	800.00	70.000	56000.00
2.03	At av. Depth 3.6 meter [From 3.60 m to 3.89 m]	Mtr.	834.00	25.000	20850.00
2.04	At av. Depth 3.9 meter [From 3.90 m to 4.19 m]	Mtr.	879.00	25.000	21975.00
3	Construction of Pre-cast RCC M-40 grade circular manhole chamber up to invert depth 1.79 meter having 1000 mm internal diameter including required excavation of earth in all types of soils such as murrum, sand, sandy silt, black cotton soil, hard soil, kankar etc. disposing of surplus excavated material within a lead of 50 meter. The work includes laying of 150mm thick plain cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size) 1600 mm dia bedding in foundation, providing and laying of plain cement concrete 1:2:4 (1cement: 2 coarse sand : 4 graded stone aggregate) in channel & circular starter base wall up to 50 mm above outer dia. of sewer pipe and P&F in position of 125 mm thick 150/225 mm high pre-cast M40 grade cement concrete ring at bottom and consecutive standard size 300 mm high rings.The work includes P&F pre-cast reinforced cement concrete eccentric conical piece of M40 grade, 125 mm thick having 560 mm and 1000 mm internaldiameter at top & bottom respectively, fitted with Ferro-cement cover of 33 kg cast iron double seal ring & frame (heavy-duty) etc to withstand for class AA loading including supply and fixing of Ferro-cement foot steps and sealing of all joints with cement mortar 1:1 complete job as per detailed specifications, drawingsand directions of Engineer-In charge, for following average Invert depths: (D-142 Dt. 28.04.2008)For 200 mm dia Sewer line				
3.01	At av. Depth 0.9 meter [From 0.9 m to 1.19 m]	Each	6612.00	324.000	2142288.00
3.02	At av. Depth 1.2 meter [From 1.20 m to 1.49 m]	Each	7239.00	134.000	970026.00
3.03	At av. Depth 1.5 meter [From 1.50 m to 1.79 m]	Each	8292.00	70.000	580440.00

4	Construction of Pre-cast RCC M-40 grade circular manhole chamber for invert depth from 1.800 meter to 2.990 meter having 1200 mm internal diameter including required excavation of earth in all types of soils such as murrum, sand, sandy silt, black cotton soil, hard soil, kankar etc., disposing of surplus excavated material within a lead of 50 meters. The work includes laying of 150 mm thick plain cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size) 1800 mm dia bedding in foundation, providing and laying of plain cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate) in channel & circular starter base wall up to 50 mm above outer diameter of sewer pipe and P&F in position of 125 mm thick 150/225 mm high precast M-40 grade cement concrete ring at bottom and consecutive standard size 300 mm high rings. The work includes P&F pre-cast reinforced cement concrete eccentric conical piece of M40 grade, 125 mm thick having 560 mm and 1200 mm internal diameter at top & bottom respectively, fitted with Ferro-cement cover of 33 kg Cast Iron double seal ring & frame (heavy-duty) etc., to withstand for Class-AA loading including supply and fixing of Ferro-cement foot steps and sealing of all joints with cement mortar 1:1 complete job as per detailed specifications, drawings and directions of Engineer- In-charge, for following average invert depths: (D-142 Dt. 28.04.2008). For 200 mm dia Sewer line				
4.01	At av. Depth 1.8 meter [From 1.80 m to 2.09 m]	Each	10451.00	49.000	512099.00
4.02	At av. Depth 2.1 meter [From 2.10 m to 2.39 m]	Each	11695.00	31.000	362545.00
4.03	At av. Depth 2.4 meter [From 2.40 m to 2.69 m]	Each	12941.00	34.000	439994.00
4.04	At av. Depth 2.7 meter [From 2.70 m to 2.99 m]	Each	14188.00	23.000	326324.00

5	Construction of Pre-cast RCC M40 grade circular manhole chamber for invert depth from 3.000 meter and above having 1500 mm internal diameter including required excavation of earth in all types of soils such as murrum, sand, sandy silt, black cotton soil, hard soil, kankar etc., disposing of surplus excavated material within a lead of 50 meters. The work includes laying of 150 mm thick plain cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size) 2100 mm diameter bedding in foundation, providing and laying of plain cement concrete 1:2:4 (1cement: 2 coarse sand : 4 graded stone aggregate) in channel & circular starter base wall up to 50 mm above outer dia. of sewer pipe and P&F in position of 125 mm thick 150/225 mm high precast M40 grade cement concrete ring at bottom and consecutive standard size 300 mm high rings. The work includesP&F pre-cast reinforced cement concrete eccentric conical piece of M40 grade, 125 mm thick having 560 mm and 1500 mm internal diameter at top & bottom respectively, fitted with Ferro-cement cover of 33 kg Cast Iron double seal ring & frame (heavy-duty) etc to withstand for Class-AA loading including supply and fixing of Ferro-cement foot steps and sealing of all joints with cement mortar 1:1 complete job as per detailed specifications, drawings and directions of Engineer- in -charge, for following average Invert depths: (D-142 Dt. 28.04.2008).For 200 mm dia Sewer line				
5.01	At av. Depth 3.0 meter [From 3.00 m to 3.29 m]	Each	18585.00	9.000	167265.00
5.02	At av. Depth 3.3 meter [From 3.30 m to 3.59 m]	Each	20098.00	7.000	140686.00
5.03	At av. Depth 3.6 meter [From 3.60 m to 3.89 m]	Each	21628.00	2.000	43256.00
5.04	At av. Depth 3.9 meter [From 3.90 m to 4.19 m]	Each	23154.00	2.000	46308.00
6	Construction of Random Rubble Stone masonry circular manhole Each chamber as per detailed specifications up to invert deph 0.89 meter having 560 mm internal diameter including required excavation of earth in all types of soil such as murrum, sand, sandy-silt, black cotton soil and kankar etc., disposing of surplus excavated material within a lead of 50 meters. The work includes laying of 15 cm thick plain cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size) in 1460 mm dia bedding in foundation, construction of RR Stone masonry wall 300 mm thick in cement mortar 1:6, laying of plain cement concrete 1:2:4 (1 Cement : 2 Coarse sand : 4 graded stone aggregate) in channel, 12 mm thick plaster in CM 1:4 on inner face of chamber, finishing of channel and wall with neat cement punning, flush and ruled pointing in CM 1:3 on outer face of chamber in full depth, 15 cm thick stone Lintel including S&F of Ferro-cement manhole cover with clear opening 560 mm diameter with 22 kg. Cast Iron CC (heavy duty) complete as per detailed specification and as per directions of Engineer-in-charge complete job for .60 mt to 0.89 mt depth:- (D-142 Dt. 28.04.2008)				
6.01	At av. Depth 0.6 meter [From 0.60 m to 0.89 m]	Each	4276.00	64.000	273664.00

7	Raising/lowering to required height of pre-cast concrete manhole where ever pre-cast chamber have been provided in sewerage system by dismantling the C.I. frame provided for cover, dismantling and concrete of conical piece, bending the extended reinforcement in required position providing M-40 grade cement concrete as per site requirement and fixing of new C I frame for placing manhole cover. The work includes curing, providing barricading during construction, putting sign board/caution board for safety purpose, providing all material like cement, sand, grit for M-40 concrete, shuttering where ever required. The work also includes providing all tools and plants such as vibrator, mixture, required for the Job in all respect with site clearance. (Dir. Engg. /D-143 dt. 28.02.2011)	Nos	1500.00	8.000	12000.00
8	Barricading with sal ballies as per design including tying wit vertical posts by coconut strings complete in all respect with two horizontal members height 1.2 meter upto 1.5 meter above G.L. and vertical support upto 2.5 meter C/C and for 3 days period incl. removal and cleaning the site complete in all respects & including dressing of sides in all types of soil. (Hire charges subsequent days (Per day)	Mtr.	14.85	24075.000	357513.75
9	Labour changes for making connection of sewer line through manhole.	Each	340.20	1245.000	423549.00
10	Providing and fixing unplasticized Poly-Vinyl-Chloride uPVC SWR Pipes Type "B" for Sciland waste discharge system (IS:13592:1992 marked) of approved quality/ make size 110 mm diameter.	Mtr.	198.00	7000.000	1386000.00
11	Providing and fixing unplasticized Poly-Vinyl-Chloride uPVC SWR Pipes fittings Type "B" for sciland waste discharge system (IS:13592:1992 marked) of approved quality/make size 110 mm diameter (socket plug).	Each	43.20	1245.000	53784.00
12	Excavating trenches of required width for pipe cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 meter including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed within a lead of 50 meter. Pipes, cable, etc. exceeding 80 mm dia. but not exceeding 300 mm diameter.	Mtr.	117.00	7000.000	819000.00
13	Earth, Sand, Lime, Morrum manure or sludge				
13.01	For 500 M(0.5 Km.)	Cum	38.70	3350.000	129645.00

14	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sum on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in a lead of 50 meter. All kinds of soils	Cum	111.60	60.000	6696.00
15	Add extra for foundation/trenches/drains for every additional lift of 1.5 Mtr. or part thereof in				
15.01	Add Extra for lift above 1.5 mtr to 3 mtr	Cum	21.60	60.000	1296.00
15.02	Add Extra for lift above 3.00 mtr to 4.5 mtr	Cum	43.20	54.000	2332.80
15.03	Add Extra for lift above 4.5 mtr to 6.0 mtr	Cum	64.80	54.000	3499.20
16	P & F Close timbering in trenches including strutting, shoring and packing cavities (wherever required) etc. Complete (Measurement to be taken of the face area timbered):				
16.01	Depth not exceeding 1.5 Mtr.	sqm	59.40	120.000	7128.00
16.02	Depth exceeding 1.5 Mtr. but not exceeding 3 Mtr	sqm	62.10	120.000	7452.00
16.03	Depth exceeding 3 Mtr. but not exceeding 4.5 Mtr	sqm	68.40	120.000	8208.00
17	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering - All work up to plinth level.				
17.01	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	Cum	2058.30	7.000	14408.10
17.02	M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	2882.70	11.000	31709.70
18	Providing and laying in position specified grade of cement concrete for all RCC structural elements upto plinth level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 cement: 3 coarse sand) and making good the joints and cost of plastizers(if required) excluding the cost of centering, shuttering and reinforcement. M20 grade Nominal Mix / Design Mix	cum	2961.00	55.000	162855.00
19	Centering and Shuttering with plywood or steel sheets including strutting, propping bracing both ways and removal of formwork for foundation , footings, strap beam, raft , bases of columns etc.	sqm	99.00	4.200	415.80
20	Walls (any thickness) including attached pilasters, buttresses plinth and string course. Add 20% extra for shuttering in circular work (in respective centering and shuttering items) Outer Face	sqm	217.08	290.000	62953.20
21	Providing and fabricating reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding (including cost of binding wire) all complete up to floor five level.				

21.01	Hot rolled deformed bars (IS : 1139).	Kg	61.20	2450.000	149940.00
22	Dry sinking of well true and vertical in all tpes of soils including sand, silt, clay mixed upto 25% with gravel and river bed stones upto size 300 mm in any direction complete as per drawings and technical specification for depth up to 5 Mtr.	PMD/PMD	660.00	50.000	33000.00
	Grand Total Rs. =				14967350.55

Executive Engineer (PHE-I)
JDA, Jaipur

I/We Quote as % Above/ Below the schedule " G "
(In Words.....)

'Signature of Contractor
With full Address & Mobile No.