**Ref No.: NWSDB/SBD/SUP&LAY-Major (CP)/Ver1**

***REVISED ON 12-07-2021***

**GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC**

# OF SRI LANKA

**MINISTRY OF WATER SUPPLY**

# NATIONAL WATER SUPPLY AND DRAINAGE BOARD

### ……………………….. WATER SUPPLY/SEWERAGE SCHEME

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

*For the bidding documents prepared by the P&D section Head Office:*

**CONTRACT No.: NWSDB/**..*(1)..***/P&D***(2)***/CP***(3)***/A..***(4*)**../2021/..***(5)***..**

*For the bidding documents prepared by RSCs:*

**CONTRACT No.: NWSDB/…***(1)***…/CP***(3)***/A..***(4*)**../2021/..***(5)***..**

*(1)Name of the RSC*

*(2)P&D means the head office P&D*

*(3)CP means Corporate Plan 2020-25 projects*

*(4)Ref.no. in Annex of Cooperate plan 2020- 2025*

*(5)Number of the Contract*

***REVISED ON 12-07-2021***

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**GALLE ROAD**

**RATMALANA.**

**……………………..**

**MONTH & YEAR**

#### DOCUMENT ISSUANCE CERTIFICATE

(To be filled at the time of issue by the authorized issuing officer)

1. STANDARD DOCUMENT REFERENCE NUMBER: NWSDB/SBD/Sup & Lay-Major (CP)/Ver1

2. CONTRACT NUMBER : ………………….…………..…………………….

3. a) ISSUED TO : ………..........................……...............................

b) ADDRESS : ………….................................…….....................

c) TELEPHONE NUMBER : ....……...............................…..................

d) FACSIMILE NUMBER : ………………………………..………..

4. a) TENDER FEE : Rs. ........ RECEIVED/NOT RECEIVED

IN CASH/BANK DRAFT

b) RECEIPT/BANK DRAFT NUMBER : .....................…….............

5. NUMBER OF COPIES ISSUED : ..................…….…....................…...........

6. NUMBER OF CANCELLED COPIES ISSUED : …….....................…........

7. CANCELLED COPY FEE : Rs................…….... RECEIVED/NOT RECEIVED (IN CASH/BANK DRAFT)

8 BUSINESS REGISTRATION NUMBER : ..........................………................

9. a) ISSUING OFFICER : ................................................…….........

b) DESIGNATION : ....................................................………..

c) SIGNATURE : ..................................................………..

10. PLACE OF ISSUE : ........................................................….….

11. SEAL : ………………..………………………………………….…….

12. DATE : ............................ TIME : …..............................……

# T A B L E O F C O N T E N T S

##### VOLUME 1

**Volume - 1 of this document is the Volume – 1 of Standard Bidding Document, Procurement of Works, Major Contracts, ICTAD publication No. ICTAD/SBD/02 Second Edition – January 2007, and available for purchasing at CIDA, Wijerama Mawatha, Colombo 7.**

Volume 1 includes following sections

Section 1 - Instructions to Bidders

Section 3 - Conditions of Contract

Section 5 - Standard Forms (Contract) are not used – Refer Section 12 of Volume II

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**CHECK LIST BEFORE SUBMISSION OF BIDS**

Bidders are advised to fill the following table:

|  |  |  |
| --- | --- | --- |
| **ITEM** | **REFERENCE** | **REMARKS** |
| Documentary evidence to establish eligibility of bidder. | ITB Clause 4 |  |
| Signatory to the BID |  |  |
| Evidence for authority for Signatory(ies)  enclosed? | ITB Clause 20 |  |
| Form of Bid |  |  |
| Addressed to the Employer? |  |  |
| Completed? |  |  |
| Signed? |  |  |
| Bid Security |  |  |
| Addressed to the Employer? | ITB Clause 17 |  |
| Format as required? | ITB Clause 17 |  |
| Issuing Agency as specified? | ITB Clause 17 |  |
| Validity **as mentioned in the bidding**  **data** | ITB Clause 17 |  |
| Qualification Information |  |  |
| All relevant information completed? | ITB Clause 4 |  |
| Signed? | ITB Clause 4 |  |
| Addendum |  |  |
| Contents of the addendum (if any) taken in  to account? | ITB Clause 11 |  |
| BID package |  |  |
| All the documents given in ITB Clause 13  enclosed in the original and copy? | ITB Clause 13 |  |
| ITB Clause 21 followed before Sealing the  Bid Package? | ITB Clause 21 |  |
| Copy of VAT registration certificate | ITB Clause 14.3 |  |
| Bio data of engineers and technical officers | Appendix 4A |  |
| Summary of Assets and liabilities for the last  three financial years | Appendix 2A |  |
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| Quality Management System Certificate  ISO 9001:2015 | ITB Clause 4 |  |
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VOLUME 1

Standard Bidding Document, Procurement of works, Major Contracts, ICTAD/SBD/02 Second Edition, - January 2007 Published by Construction Industry Development Authority (CIDA) is applicable in respect of this Contract. Any changes to these Clauses in the Instructions to Bidders & Conditions of Contracts are indicated in Bidding data and Contract data in Section 2 and 5 respectively.

**ICTAD/SBD/02 Second Edition – January 2007 is not provided with this Bidding document, and it is available for purchasing at CIDA, Wijerama Mawatha, Colombo 7.**

VOLUME 2

**INVITATION FOR BIDS**

THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

**MINISTRY OF …………………………**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**CONTRACT No.: …………………………………..**

**…………………………….. ……. Water Supply**

**Bid for …………………………………………….**

**INVITATION FOR BIDS (IFB)**

1. The Chairman, Standing Cabinet Appointed Procurement Committee, Ministry of Water Supply, No. 35, “Lakdiya Madura”, New Parliament Road, Pelawatta, Battaramulla, Sri Lanka on behalf of the National Water Supply and Drainage Board (NWSDB) invites sealed bids from eligible and qualified bidders for ……..…………….…………………………………of ……………………………………… Water Supply Scheme.
2. Bidding will be conducted through National Competitive Bidding Procedure. Bidder shall arrange funding from a Funding Agency towards the payment of the above project as stated in the Clause 2.1 of the Bidding Data.
3. Alternative bids shall not be accepted
4. To be eligible for Contract award, the successful bidder shall not have been blacklisted. The bidder or one of the partner of the Joint Venture shall have Registration with CIDA in the field of ………………………………. in Grade …………… at time of submission of the bid.
5. The estimated cost for this Bid is Rs………………………………. Million without VAT and the construction period is ……………… Days.
6. Interested bidders may obtain further information from Assistant General Manager, (Tenders and Contracts), NWSDB, Galle Road, Ratmalana, Sri Lanka over the telephone, number 011-2635885 or 011-2638999 Ext. 1750 or facsimile number 011-2635885 and bidding documents may be inspected free of charge at the office of the Assistant General Manager, (Tenders and Contracts), NWSDB, Galle Road, Ratmalana, Sri Lanka.
7. A complete set of Bidding documents in English language may be purchased by interested bidders on the submission of a written application on a business letterhead to the Assistant General Manager (Tenders and Contracts), NWSDB, Galle Road, Ratmalana, Sri Lanka or RSC(…..), ………………………………………………………. from ……………….. until …………from 09:00 hours to 15:00 hours on normal working days upon payment of a non-refundable tender fee of Rs………………………./= Plus applicable VAT in cash.
8. Bids shall be delivered to the Chairman, Standing Cabinet Appointed Procurement Committee, Procurement Division, Ministry of Water Supply, No. 35, “Lakdiya Madura”, New Parliament Road, Pelawatta, Battaramulla, Sri Lanka on or before …………………hrs on ………………Late Bids will be rejected. Bids will be opened soon after closing in the presence of the bidders’ representatives who choose to attend.
9. All Bids shall be accompanied by a bid security of Rupees…………………………and valid upto ……………………… *(Specify the Date).*

**Chairman**

National Water Supply and Drainage Board

Galle Road, Ratmalana. Sri Lanka.

**2. BIDDING DATA**

The Bidding Data is a part of Instructions to Bidders and should be read in conjunction with the Instructions to Bidders.

If there is a discrepancy found in the Instructions to Bidders and the Bidding Data, the Content in the Bidding Data shall supercede the Content in the Instructions to Bidders.

*(Note: What is typed in italic letters are guide lines to prepare the Bidding Data and they shall be removed after preparation of the Bidding Data.)*

**Bidding Data**

(Please note that the Clause numbers given here under are that of Instructions to Bidders)

**Instructions to Bidders**

**Clause Reference**

|  |  |  |
| --- | --- | --- |
| **(1.1)** | **The Employer’s Name and Address**  Name: National Water Supply and Drainage Board  Address: Galle Road,  Ratmalana, Sri Lanka | |
| **(1.1)** | **Scope of works** | |
|  | The Works consists of *(Detail description of scope of work to be written)* ………………………………………………………………….…………..……………………………………………………………………………  Located at ……………………………………………………. | |
| **(1.2)** | **Time for completion** | |
|  | Intended Completion Date is ………………..Days from the Commencement Date. | |
| **(1.3)** | The office for collection of bid forms is  Assistant General Manager (Tenders & Contracts)  Tenders & Contract Section,  NWSDB, Galle Road,  Ratmalana.  or  RSC/PPC (………),  ……………………,  …………………..  The non-refundable fee is Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Plus VAT, payable in cash.  The Bid forms will be issued until\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| **(2.1)** | **Source of Funds**  The Bidder as the primary borrower shall establish that, there is a firm commitment for total funding for this project against their own balance sheet or from a reputed Funding Agency for financing the Project through a Letter of Intent (LOI) issued by the proposed Lender/Lenders. The amount of funding available for the Project shall be highlighted and submitted. The Funding Agency shall provide a confirmation of amount of funds that could be allocated. Further the financial terms shall be submitted (Indicative Financial Term Sheet) for the Funding Terms as per the Clause 2.2 to establish the terms and conditions of the funding as per the evaluation criteria elaborated under Clause 30.  The Department of External Resources will negotiate the terms and conditions of the loan with the lending bank proposed by the Bidder A tripartite agreement to be signed among the Bank, Contractor and National Water Supply and Drainage Board (NWSDB). The General Treasury will issue a treasury guarantee or the Letter of Comfort to the lending Bank to secure the loan obtained by the Contractor. The NWSDB will be submitted a copy of Loan Agreement with a request to issue the relevant security to the Department of Treasury Operations. The Ministry of Finance will provide necessary budgetary allocation to service and repay the Loan as and when necessary to the Ministry of Water Supply as requested. Ministry of Water Supply on behalf of the Contractor will utilize such provisions for the servicing and the repayment of the Loan made available to the Contractor to finance the relevant water supply project. | |
| **(2.2)** | **Employer’s Requirements for Funding Terms**   1. Funds for this Contract shall be obtained by the Contractor as the primary borrower towards the Cost of Construction/ Supply and Laying of pipes/Supply and installation of Mechanical and Electrical Plant as specified in the scope of Work of this Contract. Payments by the Funding Agency will be made only at the request of the National Water Supply & Drainage Board (NWSDB), Sri Lanka in accordance with the Loan Agreement, and will be subjected in all respect to the terms and conditions of the Loan Agreement and payment will be settled through a local bank established in Sri Lanka approved by the Central Bank of Sri Lanka. No party other than the National Water Supply & Drainage Board, Sri Lanka shall derive any rights from the Loan agreement or have any rights to the Loan proceeds. Loan shall cover the total Contract Price plus up to 10% price variation. If Contractor or Joint Venture partner financing, then they must provide terms and conditions including confirmation of their funds. 2. Bidder is expected to submit following details in comprehensive manner with all necessary supporting documents to commit the funding:   If financing is proposed by the Contractor or Joint Venture partner:   1. Substantial evidence on confirmation of funds including specific terms and conditions by the contractors’ bank; 2. Unconditional commitment letter issued by the Contractor or Joint Venture; 3. The letter of Intent initially by the Contractor or Joint Venture to cover the project cost; 4. The Contractor or Joint Venture shall provide an assurance that any additional requirements for funding could be made available for the proper completion of the Project; 5. If the bridging of funding is needed, the Commitment Letter for the second funding Agency for the supplementary funding including terms and conditions.   If financing is proposed by a reputed Funding Agency,   1. Unconditional commitment letter issued by the Funding Agency; 2. The Letter of Intent initially by the Bank to cover the project cost which is based on the bidders Initial Contract Price; 3. Bank shall provide an assurance that any additional requirements for funding could be made available for the proper completion of the Project. 4. The Bank shall provide a Term Sheet for the Loan to enable the Employer to evaluate the Loan terms. 5. If the bridging of funding is needed, the Commitment Letter for the second funding Agency for the supplementary funding including terms and conditions. (Second financial term sheet)   iii) Minimum requirement of funding terms;   |  |  |  | | --- | --- | --- | | **No.** | **Description** | **Minimum Requirement** | | 01. | Grace Period + Repayment Period | Grace period ; 03 years | | Repayment period; 12 years | | 02. | Interest margin per year\* | 1% | | 03. | Number of payments per year | 2 | | 04. | Commitment, Management and Other Charges | 0% |   \* Interest margin per year added to the average weighted lending rate of the country. Ex: for LKR, AWPLR and for USD, LIBOR etc.  This minimum requirement sheet shall be filled by the bidder as per the Appendix-20 in the Section 13 of this document. |
| **(4.1)** | **Eligibility and Qualification Requirement**  All bidders shall include the following information and documents with their Bid (Refer Section 13 – Appendices).  **Eligibility**   1. Bidder shall not be a blacklisted Contractor at the time of bidding and the time of awarding. 2. CIDA registration as stated in Clause 4.2a (Appendix-1): If fully local registered contractor or Joint Venture, then need CIDA registration at least for one party holding more than 40% of the Joint Venture. If Joint Venture with fully technically qualified foreign contractor holding more than 25% but less than 49% ownership, they do not need CIDA registration and if awarded they must register contract with CIDA. 3. Properly signed Form of Bid. 4. Legal status of the company (Appendix-1). 5. Joint Venture agreement if applicable (Appendix-1). 6. Bidders Authorization to sign the Bid (Appendix-7). 7. If a Joint Venture with a foreign partner, the lead partner shall be the technology provider. 8. Local bank account detail shall be submitted by the bidder   **Qualification**   1. Registration as per Act No.3 of 1987. 2. Valid Bid security as stated in Clause 17.2. 3. Audited financial reports (Appendix-2A). 4. Evidence of Adequacy of Working capital (Appendix-2B & 2C). 5. Pending Litigation (Appendix-2D) 6. Annual volume of Construction work (Appendix-3A, 3B, 3C & 3D). 7. Experience in work of a similar nature and size (Appendix-3A, 3B, 3C & 3D). 8. Details of contract management & key technical staff (Appendix-4A). 9. Time Schedule for Key staff (Appendix-4B). 10. Major items of Construction equipment proposed (Appendix-5A & 5B). 11. Proposed Work Program (Appendix-6). 12. List of manufactures details for Materials to supply under the contract (Appendix-8). 13. Quality Management System Certificates (ISO 9001:2015) for the factories of manufacturers proposed to supply Materials under the Contract. 14. Valid Product Conformity Certificate BS/BSEN for the Materials supplied under the Contract. 15. Certificate for the confirmation from WRAS (UK) or NSF International laboratories for the suitability for the drinking water purposes for HDPE Pipes &fittings. 16. The Materials, Plant and services, which are impossible or uneconomical to purchase from the country of origin, may be procured from countries other than the country of origin (the “country of manufacture”) with the prior consent of the Employer. However, the country of origin or country of manufacture shall have supplied records and end user certificates to developed countries. The Bidder shall submit the documentary evidence the Material/Plant/ services supplied his manufacturers and end user certificates to developed countries with the Bid. The “developed countries” are defined as those countries having a Human Development Index (HDI) exceeding 0.800 (as of year 2020), as listed by the IMF as indicated in Appendix-AA to Bidding Data. 17. Functional Guarantee for DI/HDPE pipes, fittings, specials, rubber rings and Accessories (Appendix-9). 18. Manufacturer’s authorization to sign the Contract and confirmation of capability of production of Materials & supply of Materials according to delivery schedule (Appendix-10). 19. Manufacturer’s warranty for the Materials supplied under the Contract (Appendix-12). 20. Local accredited agent’s confirmation of supply of Materials according to work program (Appendix-14). 21. Details of Local accredited agent (Appendix-16).   *\* Add if Any other.* | |
| **(4.2 a)** | **CIDA registration required for this Contract** as per Clause (4.1) ii  Specialty: Water Supply & Sewerage  Grade: ……………or above. | |
| **(4.2 b)** | **Average annual volume of construction work**  Average annual volume of construction work performed in any consecutive three(03) years within the period of last ten years is Rs………………….   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Criteria** | **Compliance Requirements** | | | **Documents** | | **Requirement** | **Single Entity** | **Joint Venture** | | **Submission Requirements** | | **All Partners Combined** | **One of the Partners** | | Minimum average annual construction turnover of LKR**……million** calculated as total certified payments received for contracts in progress or completed, within the last **three (03)** years. | must meet requirement | must meet requirement | must meet  **40% of the requirement** | Appendix-3A, 3B, 3C & 3D |  1. *If Contract period is less than one year, the value of the Engineers estimate,* 2. *If Contract period is more than one year, 1.5 times annual value of the proposed work \*1*   *\*1 Annual Value of proposed work,*  *= 12 x Engineer’s estimate*  *Contract duration in months* | |
| **(4.2 c)** | **Minimum Qualification**  Add to the Clause;  Minimum qualification to qualify for the award of the Contract:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Criteria** | **Compliance Requirements** | | | **Documents** | | **Requirement** | **Single Entity** | **Joint Venture** | | **Submission Requirements** | | **All Partners Combined** | **One of the Partners** | | Participation as a Contractor, Joint Venture, or subcontractor, in at contract that have been successfully or substantially completed within the last **fifteen (15)** years, and that are **similar to the proposed works**, where the value of the bidder’s participation under each Contract similarity of the bidder’s participation shall be LKR …….. *(25% of the contract value)* | must meet requirement | must meet requirement | Not applicable | Appendix-3A, 3B, 3C & 3D |   Documentary evidence to justify shall be submitted. None submission of documentary evidence may cause of rejection of the bidder.   |  |  |  |  | | --- | --- | --- | --- | | **Criteria** | **Compliance Requirements** | | | | **Requirement** | **Single Entry or Its Specialist Subcontractors** | **All Partners Combined** | **Submission Requirement** | | For the above or other contracts exceeded during last **fifteen (15)** years minimum experience is required in following **key activities**; | must meet requirement | must meet requirement | Appendix-3A, 3B, 3C & 3D | | *Laying of ………..* | ………. | ………. | ………. |   *(Specify the appropriate works based on the scope of the Contract)*  *Guideline for Pipe laying –*  *Pipe Laying length of this Contract (Shall be included diameter range of pipe to be laid- for larger diameters at least 500 mm diameter pipe laying and for smaller diameters 200mm diameter pipe laying. Overall Length shall be 50% of the pipe laying length or 10 km whichever is less; aggregate of pipe lengths under different Contract should be considered)*  May be complied by the bidder or by specialized Subcontractor. If Subcontractors are proposed by the bidder for key activities, each specialized Subcontractor must have experience in related key activity as a single entity.  Documentary evidence to justify shall be submitted. None submission of documentary evidence may cause of rejection of the bidder. | |
| **(4.2 d)** | **Essential Equipment**  \* Proposals for the timely acquisition (own, lease, hire, etc.) of the essential equipment listed shall be as given in Appendix 5A & 5B.  (Bidder shall include any additional equipment, plant, etc. to the  Appendix 5A & 5B depending on his construction methodology). | |
| **(4.2 e)** | **Key Technical Staff**  Details of qualifications and experience of the Contract Manager and Key Technical staff as Appendix-4A & 4B. | |
| **(4.2 f)** | **Liquid Assets and/or Credit Facilities required**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Criteria** | **Compliance Requirements** | | | **Documents** | | **Requirement** | **Single Entity** | **Joint Venture** | | **Submission Requirements** | | **All Partners Combined** | **One of the Partners** | | Working Capital\*1 + present available credit facilities for the company\*2 + credit facilities exclusively for this Contract - 0.1 x current work commitments\*3>LKR……………\*4.  \*1 Working Capital = Current Assets – Current Liabilities  \*2A letter to prove the availability of credit facilities for particular project issued by a Bank within a month prior to date of closing of Bids.  \*3Current work commitment = work remaining uncompleted | must meet requirement | must meet requirement | must meet  **40% of the requirement** | Appendix-2A, 2B &2C |   *\*4(i) For Major Contracts (more than Rs. 100 million) - Financial requirements for 4 months’ period*  *(ii) For Other Contracts (less than Rs. 100 million) - Financial requirement for 3 months period.* | |
|  | Pending Litigation   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Criteria** | **Compliance Requirements** | | | **Documents** | | **Requirement** | **Single Entity** | **Joint Venture** | | **Submission Requirements** | | **All Partners Combined** | **One of the Partners** | | All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more than Seventy present (70%) of the Bidder’s net worth | must meet requirement | Not applicable | must meet  **40% of the requirement** | Appendix-2D |   Documentary evidence to justify shall be submitted. None submission of documentary evidence may cause of rejection of the bidder. | |
| **4.2 (h)** | **Add to the end of Sub-Clause 4.2:**  **If any item comes under the NWSDB Pre-qualified manufacturers’ list or NWSDB recommended M&E manufacturers’ list; which have to be supplied under the Contract, shall be from the NWSDB pre-qualified/ recommended M&E manufacturers. Lists of those manufacturers are given in Appendix 17.** | |
| **(9.1)** | **Content of Bidding Documents**  Delete the Sub-Clause 9.1 and substitute with the following;  The bidding documents consists of two volumes as stated below and should be read in conjunction with any addenda in accordance with Clause 11 of Instructions to Bidders:  **Volume 1**  Section 1: Instructions to Bidders  Section 3: Conditions of Contract  Section 5: Standard Forms(Contract) – not used | |
|  | **Volume 2**  Invitation for Bids  Section 2: Bidding Data  Section 4: Form of Bid  Section 5: Contract Data  Section 6: Specifications  Section 7: Schedule of Particulars  Section 8: Deviations from Specifications  Section 9: Schedules of Day Work Rates  Section 10: List of Drawings  Section 11: Bill of Quantities  Section 12: Standard Forms  Section 13: Appendices | |

|  |  |
| --- | --- |
| **(10.1)** | **Clarification of Bidding Documents**  Employer’s address for the purpose of clarification is;  Assistant General Manager (Tenders and Contracts),  National Water Supply and Drainage Board,  Galle Road, Ratmalana, Sri Lanka.  Tel: 94-011-2605328.  Fax: 94-011-2635885. |

|  |  |
| --- | --- |
| **(13.0)** | **Document Comprising the Bid**  **Deleted the Sub-Clause 13.1 and add the following clauses;** |
| **(13.1)** | The Bidding Document shall comprise the following:   * + - 1. Section 4 (Page 4-1) – Duly filled and signed Form of Bid for General Qualification & Commitment for funding;       2. Section 4 (Page 4-2) – Duly filled and signed Form of Bid for Price and Funding Proposal;       3. Bid Security;       4. Power of Attorney for the signatory to the Bid;       5. Section 2– Bidding Data;       6. Section 4– Contract Data;       7. Section 6– Specification;       8. Section 7– Duly filled Schedules of Particulars;       9. Section 8– Deviation from Specifications;       10. Section 9- Schedule of Dayworks;       11. Section 10- Drawings;       12. Section 11– Duly filled and signed Bills of Quantities.       13. Section 13– Dully filled Appendices       14. Any other information required to be completed and submitted by bidders as specified in the Bidding Data.       15. Letter of Intent (LOI) issued by the prospective lender for commitment of funding. |
| **(13.2)** | The documents stated in Sub-Clause 13.1shall be enclosed in envelops marking “ORIGINAL” and “COPY” as per the Clause 21. |
| **(14.0)** | **Bid Pricing** |
| **(14.3)** | VAT component shall not be included in the rates. The amount written in the Form of Bid shall be without VAT. However, VAT component shall be shown separately in the Summary of the Bills. |
| **(14.5)** | **Add to the end of Clause 14:**  If a Bidder has given a discount of his bid price, the discount shall be distributed to each and every item excluding Provisional Sums in the Bills of Quantities by adjusting the rates in the Bills of Quantities by the percentage of discount offered. This rate is applicable for all variations to complete the Works in the Contract. |
| **(16.1)** | **Period of Bid Validity:** |
|  | The Bid shall be valid for 210 Days from the date of closing of the bids (excluding closing date) as specified in the IFB. |
| **(17.1)** | **Amount of Bid Security:** |
|  | The amount of Bid Security is LKR ………………….. |
| **(17.2)** | **Validity of Bid Security:** |
|  | Bid Security shall be valid up to ……………… *(give a date).*  Delete text in Clause 17.2 and add the following;  Bid Security (unconditional) which is en cashable on demand equivalent to the sum stated in Clause 17.1 Bidding Data, shall be furnished in one of the following forms. Bid Security shall be as per the format given in Volume 2 Section 12- Standard Forms in the Bidding Document.   1. Bank Guarantee issued by a reputed bank operating in Sri Lanka, approved by the Central Bank of Sri Lanka. 2. Sri Lanka rupee cash deposit to the National Water Supply and Drainage Board, (The original receipt for such deposit shall be attached to the original tender document). 3. A certified cheque issued by a reputed Bank operating in Sri Lanka, approved by the Central Bank of Sri Lanka, in favour of National Water Supply and Drainage Board. 4. A Foreign Exim bank which needs to be registered in the framework of Uniform Rules of Demand Guarantee 788. |
| **(19.1)** | **Pre Bid Meeting:**  Pre Bid meeting *will /will not* be held.  Pre Bid meeting -Venue …………………………………………  Date …………….. Time …………………….. |
| **(21.0)** | **Sealing and Marking of Bids**  Deleted the Sub-Clause 21.1 to 21.4 and replaced with the following: |
| **(21.1)** | The Bidder shall submit the Bid under two separately sealed envelopes as follows:  (a) The first envelope shall be clearly marked “**ENVELOPE 1 – GENERAL INFORMATION and COMMITMENT FOR FUNDING**” and shall include separately sealed inner envelopes of the “ORIGINAL” and “COPY” of the GENERAL INFORMATION separately;  (b) The second envelope shall be clearly marked “**ENVELOPE 2 – PRICE and FUNDING PROPOSAL”** and shall include separately sealed inner envelopes of the “ORIGINAL” and “COPY” of the PRICE and FUNDING PROPOSAL with a One soft copy in a CD and warning “DO NOT OPEN, EXCEPT IN THE PRESENCE OF THE BID OPENING COMMITTEE”. |
| **(21.2)** | (a) The bidder shall include the following originals to the inner envelop marked “ORIGINAL” and it’s copy to the inner envelop marked “COPY” to the “**ENVELOPE 1 – GENERAL INFORMATION and COMMITMENT FOR FUNDING”**;  **GENERAL INFORMATION and COMMITMENT FOR FUNDING**   1. Section 4 (Page 4-1) – Duly filled and signed Form of Bid for General Qualification; 2. Bid Security; 3. Power of Attorney for the signatory to the Bid; 4. Section 2– Bidding Data; 5. Section 4– Contract Data; 6. Section 6– Specification; 7. Section 7– Duly filled Schedules of Particulars; 8. Section 8– Deviation from Specifications; 9. Section 9- Schedule of Day work; 10. Section 10- Drawings; 11. Section 13– Dully filled Appendices 12. Any other information required to be completed and submitted by bidders as specified in the Bidding Data. 13. Letter of Intent(LOI) issued by the prospective lender for commitment of funding |
|  | (b) The bidder shall include the following originals to the inner envelop marked “ORIGINAL” and it’s copy to the inner envelop marked “COPY” to the “**ENVELOPE 2 – PRICE and FUNDING PROPOSAL”** ;  **PRICE PROPOSAL**   * + - 1. Section 4 (Page 4-2) – Duly filled and signed Form of Bid for Price and Funding Proposal;       2. Section 11– Duly filled and signed Bills of Quantities.   **FUNDING PROPOSAL**   1. Funding Commitment of the Lender/Lenders; 2. Financial Term Sheet/s. |
|  | (d) The envelops specified in Clause 21.2(a) and (b) shall be sealed in an outer envelope. The inner and outer envelops shall:  **be addressed to the Employer’s address for Bid submission**:  Chairman, Standing Cabinet Appointed Procurement Committee,  Procurement Division,  Ministry of Water Supply,  No. 35,“Lakdiya Madura”, New Parliament Road,  Pelawatta, Battaramulla,  Sri Lanka.  **bear the name and identification number and the name of the contract as:**  Contract name: ……………………………………………………..  Contract no.: ….……………………………………………………  **Provide a warning not to open before the time and date for bid opening, as specified in Clause 25.** |
| **(22.1)** | **Deadline for submission of Bids:**  The deadline for submission of Bids shall be ……………………….. |
| **(25.0)** | **Bid Opening**  Deleted the Sub-Clause 25.1 to 25.6 and add the following; |
| **(25.1)** | The Employer will open the envelope marked, ‘ENVELOPE 1 – GENERAL INFORMATION and COMMITMENT FOR FUNDING’, including withdrawals and modifications made to envelope marked ‘ENVELOPE 1 – GENERAL INFORMATION and COMMITMENT FOR FUNDING’ pursuant to Clause 24, in the presence of Bidders’ designated representatives who choose to attend, at the venue, time and date stipulated hereunder. The Bidders’ representatives who are present shall confirm their attendance by signing the attendance sheet.  **The Venue, time and date of bid opening:**  Venue : Procurement Division,  Ministry of Water Supply,  No. 35, “Lakdiya Madura”, New Parliament Road,  Pelawatta, Battaramulla, Sri Lanka.  Date ………………………………..  Time ………………………. |
| **(25.2)** | Envelopes marked “withdrawal” shall be opened first and the name of the bidder shall be read out. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause 24 shall not be opened. |
| **(25.3)** | The Bidders’ names, presence (or absence) of Modification to Bid and withdrawals, the presence (or absence) of Bid security, and any such other details as the Employer may consider appropriate, will be announced by the Employer at the opening. Subsequently, all envelopes marked “Modification to Envelope 1 – GENERAL INFORMATION and COMMITMENT FOR FUNDING” shall be opened and the submissions therein read out in appropriate detail including the Appendix-20 in Section 13 of the Bid. No Bid shall be rejected at Bid opening except for late Bids pursuant to Clause 23. |
| **(25.4)** | The envelopes marked ‘Envelope 2 – PRICEAND FUNDING PROPOSAL’ will be opened after the completing the evaluation of envelope marked ‘Envelope 1 – GENERAL INFORMATION and COMMITMENT FOR FUNDING’, in the manner described in Sub-Clause 30. |
| **(28.0)** | **Examination of Bids and Determination of Responsiveness** |
| **(28.4)** | **Add to the end of Clause 28;**   1. If a Bid does not meet any one of the requirements stated in Sub-Clause 28.1(a) to (c) and (e), it will be considered substantially non responsive. 2. If the Employer will determine that the bidder does not provide the proofing documents for the minimum qualification of technical and financial capacity (mentioned in Appendix 2A, 2B, 2D, 3A, 3B, 3C & 3D) the Bid is considered as non-responsive and it will be rejected. |
| **(30.0)** | **Evaluation and Comparison of Bids** |

|  |  |
| --- | --- |
| **(30.1)** | Add to the end of Sub-Clause 30.1;  The ‘Envelop 2 – PRICE AND FUNDING PROPOSAL’ has no access until the Envelop 1 is concluded. The Employer will evaluate the responsive bidder’s qualifications and the acceptability of submitted details of the Funding Terms as per the criteria given under this Sub-Clause; |
|  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No.** | **Description** | **Requirement** | **If Yes; Pass** | **If No; Fail** | | 01. | Average annual volume of Construction work submitted with the proofing documents as per Clause 4.2b. | Rs..…… |  |  | | 02. | Similar work experience for the proposed work submitted with the proofing documents as per Clause 4.2c. | Acceptable |  |  | | 03. | Experience in key activities submitted with the proofing documents as per Clause 4.2c. | Acceptable |  |  | | 04. | Liquid Assets and/or Credit Facilities submitted with the proofing documents as per Clause 4.2f | Rs …………. |  |  | | 05. | Pending Litigation as per Clause 4.2f. | Submitted |  |  | | 06. | Performance in NWSDB ongoing Contracts submitted with the ongoing performance recommendation letters as per relevant sheets in Appendix-3A & 3C. | Not poor |  |  | | 07. | Details of Construction Management & Key Technical Staff. | Acceptable |  |  | | 08. | Time schedule for Key staff | Submitted |  |  | | 09. | Major items for Construction Equipment proposed as per Appendix 5A & 5B. | Acceptable |  |  | | 10. | Proposed Work Program as per Appendix-6. | Acceptable |  |  | | 11. | List of manufactures details for Materials to supply under the contract as per Appendix-8. | Submitted |  |  | | 12. | Duly filled Schedule of Particulars | Submitted |  |  | | 13. | Quality Management System Certificates (ISO 9001:2015) for the factories of Manufactures proposed to supply Materials under the Contract. | Acceptable |  |  | | 14. | Valid Product Conformity Certificate BS/BSEN for the materials/pipes, fittings, specials, accessories, M&E equipment’s, manhole covers and valves supplied under the Contract. | Acceptable |  |  | | 15. | Certificate for the confirmation from WRAS (UK) or NSF International laboratories for the suitability for the drinking water purposes for HDPE Pipes &fittings. | Acceptable |  |  | |
|  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No.** | **Description** | **Requirement** | **If Yes; Pass** | **If No; Fail** | | 16. | Documentary evidence the materials/pipes, fittings, specials, accessories, M&E equipment’s, manhole covers and valves services supplied his manufacturers and end user certificates to developed countries with the Bid as per the Clause 4.1(xvii). | Submitted |  |  | | 17. | Functional Guarantee for DI/HDPE pipes, fittings, specials, rubber rings and Accessories as per Appendix-9. | Submitted |  |  | | 18. | Manufacturer’s authorization to sign the Contract and confirmation of capability of production of materials/pipes, fittings, specials, accessories, M&E equipment’s, manhole covers and valves supply of Materials according to delivery schedule as per Appendix-10. | Submitted |  |  | | 19. | Manufacturer’s warranty for the Materials supplied under the Contract (Appendix-12). | Submitted |  |  | | 20. | Local accredited agent’s confirmation of supply of Materials according to work program as per Appendix-14. | Submitted |  |  | | 21. | Details of Local accredited agent (Appendix-16) | Submitted |  |  | |  | Requested details of funding terms stated in Clause 2.2(ii) | Submitted |  |  | |
|  | For the qualification stated in the above table, the Employer may call for clarification if required except for the documents stated in Sub-Clause 28.4(b).  All requirements stipulated in the above table shall be “pass”. Those who do not fulfill the above requirement will be “fail” and will not be considered for further evaluation stated in Clause 30.2 and 30.3. |
| **(30.2)** | **Deleted the Sub-Clause 30.2 to 30.5 and replace with the following;**  **Evaluation of employer’s Minimum Requirement of Funding Terms;**  The eligible bidders from the criteria stated in Sub-Clause 30.1 only will be considered for this evaluation. |

|  |  |  |
| --- | --- | --- |
|  | **For Local Funding Component:** | |
|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Description** | **Employer’s Minimum requirement** | **Bidders offer** | **Marks for the minimum requirement** | **Marks for the Bidder’s offer based on minimum requirement** | | 01. | Grace Period | 03 years | . | 25 | 5 points per year | | 02. | Repayment period | 12 years |  | 25 | 5 points per year | | 03. | Interest margin per year | 1.0% |  | 25 | -5 points per 0.1% | | 04. | Commitment Management and Other Charges | 0% |  | 25 | -5 points per 0.1% | | Sub Total | |  | *(sum)* |  | | | Total Marks | | Sub Total x % of Local Funding Component | | | | | |
|  | **For Foreign Funding Component:**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Description** | **Employer’s Minimum requirement** | **Bidders offer** | **Marks for the minimum requirement** | **Marks for the Bidder’s offer based on minimum requirement** | | 01. | Grace Period | 03 years | . | 25 | 5 points per year | | 02. | Repayment period | 12 years |  | 25 | 5 points per year | | 03. | Interest margin per year | 1.0% |  | 25 | -5 points per 0.1% | | 04. | Commitment Management and Other Charges | 0% |  | 25 | -5 points per 0.1% | | Sub Total | |  | *(sum)* |  | | | Total Marks | | Sub Total x % of Foreign Funding Component | | | |   **Note: All bidders shall meet the minimum requirements from Item Nos. 1-3 in the above tables to be eligible under the criteria for funding terms.** | |
|  |  | |
| **(30.3)** | **Evaluation Criteria for Price Proposal;**   1. The Employer will only evaluate the envelope marked ‘Envelope 2 – PRICE and FUNDING PROPOSAL’, for the eligible bidders from the criteria stated in Sub-Clause 30.1 and will determine the Evaluated Bid Price by adjusting the Price Proposal as follows: 2. making any correction for errors pursuant to Clause 29; 3. excluding provisional sums and the provision, if any for contingencies in the Bills of Quantities, but including Day works, where priced competitively; 4. converting the amount resulting from applying (a) to (b) above, if relevant, to Sri Lanka Rupees in accordance with Bidding Data Clause 15.1; and 5. making an appropriate adjustment on sound technical and/or financial grounds for any other quantifiable acceptable variations, deviations, or alternative offers. 6. The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, alternative offers, and other factors that are in excess of the requirements of the bidding documents shall not be taken into account in Bid evaluation. 7. The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation. 8. If the bid, which results in the lowest evaluated Price Proposal, is seriously unbalanced or found loaded in relation to the Engineer’s estimate of the items of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analysis for any or all items of the Bills of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. 9. The Employer will allocate the marks as per the following criteria for the Evaluated Bid Price through the process stated from (i) to (iv) above.  |  |  |  |  | | --- | --- | --- | --- | | **Rank** | **Bidder** | **Evaluated Bid Price** | **Marks** | | Rank 1 | ….. | Lowest (A) | Price (A) = 100 marks | | Rank 2 | ….. | 2nd Lowest (B) | Price (A) x 100 = ….. marks  Price (B) | | Rank 3 | ….. | 3rd Lowest (C) | Price (A) x 100 = ….. marks  Price (C) | | …. | ….. | …… | …. | | ….. | ….. | ….. | ….. | | |
| **(30.4)**  **Final marks =** | Finally, the Employer will rank the bidders as per the following weighted average formula based on the total marks scored through Sub-Clause 30.2 and 30.3.  **[10% of marks for [10% of marks for [80% of marks for**  **Funding Terms funding Terms the Evaluated Bid**  **(Local) as per + (Foreign) as per + Price as per**  **Sub Clause 30.2] Sub Clause 30.2] Sub Clause 30.3]**  **100** | |
| **(30.5)** | Based on the ranking the bidders as per the Sub-Clause 30.4, it may forward for the negotiations of Financial Terms if required. | |
| **(30.6)** | After finalizing the Financial Terms for the Evaluated Bid Price, the Employer may taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the Performance Security set forth in Clause 35 be increased at the expense of the bidder to a level sufficient to protect the employer against financial loss in the event of default of the successful bidder under the Contract. | |
| **(32.1)** | **Add to the end of this Sub-Clause;**  The Bidder who has pending litigation or poor past performance will not be considered for awarding the Contract.  The unsuccessful bidders if they so wish, within one week, 07 working days of such notice may make representation to the Chairmen at the address given below by registered post or handed over to the office of PAB. Such representation shall be self-contained to enable the Secretary to arrive at a conclusion and a cash deposit to amount given below shall be made. The Employer may request the bidder who had made representation to submit further evidence during the investigation of such representation. The Appeal Board may request the bidder who had made representation to submit further evidence during the investigations. The cash deposit will be forfeited unless the Employer has changed the original Contract award decision in favor of the bidder who has made such representation.  Address: The Chairman,  Procurement Appeal Board,  Presidential Secretariat,  Colombo 01.  Cash Deposit: Rs. 100,000/= (Non- refundable fee) | |
| **(32.2)** | **Add to the end of this Sub-Clause;**  (c) To ensure that the bids made not unrealistic, following criteria will be adopted;   1. If the Bid value is 11% to 19% less than the Engineer’s estimate, the performance bond should be increased by 5% of the Initial Contract Price. 2. If the Bid value is 20% to 29% less than the Engineer’s estimate, the performance bond should be increased by 10% of the Initial Contract Price. 3. If the Bid value is 30% or higher percentage less than the Engineer’s estimate, the bid will be rejected. | |
| (34.6) | If a Bidder has given a discount of his bid price, the discount shall be distributed to each and every item in the Bills of Quantities excluding provisional sums by adjusting the rates in the Bills of Quantities by the percentage of discount offered. Contractor shall adjust all BOQ Rates deducting the discounted amount and shall endorse with the Contractor’s Signature. This rate is applicable for all variations to complete the works in the Contract. | |
| **(35.1)** | **Amount of Performance Security:**  The amount of Performance Security is 5% of the Initial Contract Price and issued by an agency stipulated below using the Form for Performance Security included in Volume 2 Section 12- Standard Forms in the Bidding Document.   1. Bank guarantee from Bank operating in Sri Lanka, approved by the Central Bank of Sri Lanka. 2. Sri Lanka rupee cash deposit to the National Water Supply and Drainage Board. 3. Certified cheque issued by a Bank operating in Sri Lanka in favour of National Water Supply and Drainage Board.   Performance Security shall be valid until the issuance of Performance Certificate. |
| **(37.0)** | **Not Applicable.** |

**APPENDICES TO BIDDING DATA**

**Appendix -AA**

**CURRENT LIST OF DEVELOPED COUNTRIES (IMF/HDI) EXCEEDING**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Rank** | **Country/Territory** | **HDI** | **Rank** | **Country/Territory** | **HDI** |
|  | Norway | 0.954 | 32. | Greece | 0.872 |
|  | Switzerland | 0.946 | 33. | Poland | 0.872 |
|  | Ireland | 0.942 | 34. | Lithuania | 0.869 |
|  | Germany | 0.939 | 35. | United Arab Emirates | 0.866 |
|  | Hong Kong | 0.939 | 36. | Andorra | 0.857 |
|  | Australia | 0.938 | 36. | Saudi Arabia | 0.857 |
|  | Iceland | 0.938 | 38. | Slovakia | 0.857 |
|  | Sweden | 0.937 | 39. | Latvia | 0.854 |
|  | Singapore | 0.935 | 40. | Portugal | 0.850 |
|  | Netherlands | 0.933 | 41. | Qatar | 0.848 |
|  | Denmark | 0.930 | 42. | Chile | 0.847 |
|  | Finland | 0.925 | 43. | Brunei | 0.845 |
|  | Canada | 0.922 | 44. | Hungary | 0.845 |
|  | New Zealand | 0.921 | 45. | Bahrain | 0.838 |
|  | United Kingdom | 0.920 | 46. | Croatia | 0.837 |
|  | United States | 0.920 | 47. | Oman | 0.834 |
|  | Belgium | 0.919 | 48. | Argentina | 0.830 |
|  | Liechtenstein | 0.917 | 49. | Russia | 0.824 |
|  | Japan | 0.915 | 50. | Belarus | 0.817 |
|  | Austria | 0.914 | 51. | Kazakhstan | 0.817 |
|  | Luxembourg | 0.909 | 52. | Bulgaria | 0.816 |
|  | Israel | 0.906 | 53. | Montenegro | 0.816 |
|  | South Korea | 0.906 | 54. | Romania | 0.816 |
|  | Slovenia | 0.902 | 55. | Palau | 0.814 |
|  | Spain | 0.893 | 56. | Barbados | 0.813 |
|  | Czech Republic | 0.891 | 57. | Kuwait | 0.808 |
|  | France | 0.891 | 58. | Uruguay | 0.808 |
|  | Malta | 0.885 | 59. | Turkey | 0.806 |
|  | Italy | 0.883 | 60. | Bahamas | 0.805 |
|  | Estonia | 0.882 | 61. | Malaysia | 0.804 |
|  | Cyprus | 0.873 | 62. | Seychelles | 0.801 |

**Source:** https://en.wikipedia.org/wiki/Developed country.

## FORM OF BID

**4.1 Form of Bid for General Qualification and Financial Proposal**

**4.2 Form of Bid for Price Proposal**

THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

## MINISTRY OF ………………………………………..

## NATIONAL WATER SUPPLY AND DRAINAGE BOARD

**…………………………….. ……. Water Supply**

**Bid for …………………………………………….**

## Contract No.: …………………………………..

## FORM OF BID FOR GENERAL QUALIFICATION AND FINANCIAL PROPOSAL

To: The Chairman,

Standing Cabinet Appointed Procurement Committee

Ministry of …………………………………………….…,

No. 35, “Lakdiya Madura”, New Parliament Road,

Pelawatta, Battaramulla,

Sri Lanka

Gentleman,

1. Having examined the Bidding Document – Procurement of Works Volume I [ICTAD/SBD/02 - Second Edition, January 2007] and Volume II, Procurement of Works Bidding Data, Contract Data, Condition of Contract, Specifications, Drawings and Bills of Quantities etc... and Addenda including Loan Term and Conditions for the execution of the above-named Works, we the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Contract Data, Conditions of Contract, Specifications, Drawings, Bills of Quantities and addenda including Loan Term and Conditions.

2. We acknowledge that the Loan agreement and Contract Data forms part of our Bid.

3. We undertake, if our Bid is accepted, to commence the Works as stipulated in the Contract Data, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.

4. We agree to abide by this Bid until the date specified in ITB Clause 16………………(*date*) or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. Unless and until a formal agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us*.(add following in case of joint venture bid. “We undertake the responsibility to enter in to a joint venture agreement among the joint venture partners. We are also well aware that in the event we failed to enter in to a joint venture agreement, the Contract formed between us is null and void and our bid bond will be forfeited by you”)*

6. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this ............. day of ............ 20... in the capacity of ..........…………………….... duly authorized to sign tenders for and on behalf of ....................................………….....................................

(IN BLOCK CAPITALS)

Signature : ………………………………….

Name : ………………………………..

Address : ………………………………….

…………………………………..

Witness:

Signature .............................….…................... Name ……………………………

Address …………………………........

THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

## MINISTRY OF ……………………………………….

## NATIONAL WATER SUPPLY AND DRAINAGE BOARD

**…………………………….. ……. Water Supply**

**Bid for …………………………………………….**

## Contract No.: …………………………………..

## FORM OF BID FOR PRICE PROPOSAL

To: The Chairman,

Standing Cabinet Appointed Procurement Committee,

Ministry of …………………………………………….…,

No. 35, “Lakdiya Madura”, New Parliament Road,

Pelawatta, Battaramulla,

Sri Lanka.

Gentleman,

1. Having examined the Bidding Document Volume I [ICTAD/SBD/02 - Second Edition, January 2007] and Volume II, including Procurement of Works Bidding data, Contract data, Condition of Contract, Specifications, Drawings and Bills of Quantities etc... and Addenda for the execution of the above-named Works, we the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Contract data, Conditions of Contract, Specifications, Drawings, Bills of Quantities and addenda for the sum of ……………. ...... ……………………………………………………………………. ………………………………………………………*in words*(………...............…*in figures*) (excluding VAT) or such other sums as may be ascertained in accordance with the said Conditions.

2. We acknowledge that the Contract Data forms part of our Bid.

3. We undertake, if our Bid is accepted, to commence the Works as stipulated in the Contract Data, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.

4. We agree to abide by this Bid until the date specified in ITB Clause 16………………(*date*) or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. Unless and until a formal agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us*.(add following in case of joint venture bid. “We undertake the responsibility to enter in to a joint venture agreement among the joint venture partners. We are also well aware that in the event we failed to enter in to a joint venture agreement, the Contract formed between us is null and void and our bid bond will be forfeited by you”)*

6. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this ............. day of ............ 20... in the capacity of ..........…………………….... duly authorized to sign tenders for and on behalf of ....................................………….....................................

(IN BLOCK CAPITALS)

Signature : ………………………………….

Name : .…..……………………………..

Address : ………………………………….

…………………………………..

Witness:

Signature .............................….…...................... Name ……………………………

Address …………………………........

**5. CONTRACT DATA**

* **Contract Data**
* **Appendix A – For Contract Data**

The Contract Data is a part of General Conditions of Contract and should be read in conjunction with the General Conditions of Contract.

If there is a discrepancy found in the General Conditions of Contract and the Contract Data, the Content in the Contract Data shall supercede the Content in the General Conditions of Contract.

*(Note: What is typed in italic letters are guide lines to prepare the Bidding Data and they shall be removed after preparation of the Bidding Data.)*

**Contract Data**

Contract Data is a part of Condition of Contact and shall be read together. If any discrepancy is founds content of the Contract Data shall supersede the Conditions of Contract

**(Please note that the Clause numbers given hereunder are that of Conditions of Contract)**

|  |  |  |
| --- | --- | --- |
| **Conditions of Contract Clause Number/s** | **Title** |  |
| 1.1.1.6 | The Contract | **Delete paragraph 1.1.1.6 and replace with the following.**  “Appendices” means document(s) titled Appendices and given in Volume 2: Section 13 and “Schedule of Particulars” given in Volume 2: Section 7, which shall be completed by the bidder and submitted with the Bid, as included in the Contract. |
| 1.1.2.2 & 1.3 | **Employer’s name** and address  Authorized Representative | Name: National Water Supply & Drainage Board  Address: Galle Road, Ratmalana, Sri Lanka  Chairman, National Water Supply & Drainage Board |
| 1.1.2.3 &1.3 | **Contractor’s name** and address | Name: …………………………………………  Address: ……………………………………….. |
| 1.1.2.4 & 1.3 | **Engineer’s name** and address | Name General Manager  National Water Supply & Drainage Board  Address: Galle Road, Ratmalana, Sri Lanka |
| 1.1.2.9 | Adjudicator | **Not Applicable.** |
|  |  |  |
| 1.3.3 | Time for Completion of the Works | Time for Completion is ……. Days from the Commencement Date. |
| 1.1.3.7 | Defects Notification Period | Defects Notification Period is ….. Days |
| 1.5 | Priority of Documents | The documents forming the Contract shall be interpreted in the following order of priority:   1. Agreement 2. Letter of Acceptance, 3. Memorandum of understanding /Addenda / Minutes of negotiations 4. Form of Bid. 5. Contract Data, 6. Conditions of Contract 7. Specifications (Specifications given in this document supersedes the CIDA specifications). 8. Drawings 9. Bills of Quantities 10. Schedule of Particulars 11. Appendices 12. Any other document listed in the Contract Data as forming part of the Contract. 13. Any other document (if any) |
| 1.14 | Joint and Several Liability | **Add to the Sub-Clause:**  Contractor shall submit the Joint Venture Agreement. |
| 2. 1 | Right of access to the Site | 21 Days from the date of Letter of Acceptance. |
| 3.1 | Engineer’s Duties and Authority | Add following paragraphs at the end of this Sub-Clause; |
|  |  | Engineer shall not allow the Contractor to store any excess pipes, fittings and accessories along road sides in addition to the material required for the daily work or after completion of Work. |

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| 3.6 | **Provision of office/mobile office and other related facilities to the Engineer’s Representative and his staff by the Contractor** | **Add following sat the end of Clause 3.0 as**  **Sub-Clause 3.6.**  (C*an be amended to suit specific requirements when preparing the Bidding Document)*  **Project office:**  The office shall be well lighted, lockable and fully weather proof. A covered parking space for one vehicle shall be provided and another additional space for minimum 2 vehicles.  The office shall have two rooms with a total floor area of at least 120m2. The office shall have overhanging eaves and be provided with windows with lockable shutters for security. The office shall have two wash room and a pantry space. | |
|  |  | Doors shall be fitted with locks at least with two keys and the Contractor shall hand over all keys to the Engineer’s Representative. The office shall be provided with wash basins with cold running water and two ceiling fans. The Contractor shall provide electricity, communication facilities, air condition facilities, toilet facilities, potable drinking water facilities and the following furniture & equipment to the office until maximum of 6 months in the Defect Notification Period where necessary. | |
|  |  | **Item** | **Required No** |
|  |  | Table 0.9m x 1.5m with four lockable drawers | …………. |
|  |  | Table 0.9m x 1.5m with one lockable drawer | ………… |
|  |  | Chairs | …………. |
|  |  | Chairs with arm rest | …………. |
|  |  | Lockable four drawer steel filing cabinet | …………. |
|  |  | Computer with UPS & requires software | …………. |
|  |  | Photocopy + Printing machine | …………. |
|  |  | Binding machine | ………… |
|  |  | Set of shelving 1.2m high by 0.9m long with shelves for keeping the drawings | …………. |
|  |  | Domestic water filter | …………. |
|  |  | Stand fans | ………… |
|  |  | Personal Protection Equipment (PPE) | ………… |
|  |  | Partitioned first aid box with the regular prescribed medicines and general medical dressings. | …………. |
|  |  | …….. |  |

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|  |  | All office building and fittings in good condition and the equipment and furnishings installed therein shall be provided and well maintained during the above period by the Contractor. Computer with ups & required software, photocopy, printing machine and binding machine shall be handover to the Employer in good condition at the end of the project period. All other Equipment and furnishing of office shall become the property of the Contractor thereafter.  The Contractor shall provide janitorial services to maintain a good working environment and security of the project office. At the end of the given period, the Contractor shall remove the office building as per the instructions given by the Engineer. | |
|  |  | **Sub office/s or Site office/s:**  The Contractor shall provide and maintain sub office/s or site office/s for the use of the Engineer’s staff in numbers stated in the BOQ. Each office shall be established at the sites as directed by the Engineer maintained by the Contractor until the completion of construction works. | |
|  |  | The sub office/s shall be provided with sufficient ventilation, light, weather proofed, insulated and painted internally and externally. Floor to ceiling height shall be at least 2.7 meters with minimum floor area 60m2. The office shall have external lockable doors and windows as necessary. | |
|  |  | Water Supply, electricity supply, Air condition facility, sanitation facility and telephone shall be provided and maintained throughout the contract period.  All necessary facilities & equipment such as stationeries, consumables and office utilities shall also be provided by the Contractor. | |
|  |  | Each sub office/site office shall be supplied with the following new furniture, equipment and services: | |
|  |  | **Item** | **Quantity** |
|  |  | Steel tables 1.2m x 0.75m with two lockable drawers | …….. |
|  |  | Steel four drawer lockable filing cabinet | …….. |
|  |  | Arm chairs | …….. |
|  |  | Water filters | …….. |
|  |  | Stand fans | ……... |
|  |  | File Trays | ……… |
|  |  | Leveling instrument | ……… |
|  |  | Computers with UPS & required software | ………… |
|  |  | Binding machine | ………… |
|  |  | Personal Protection Equipment (PPE) | ………… |
|  |  | Partitioned first aid box with the regular prescribed medicines and general medical dressings. | ………… |
|  |  | All office building and fittings in good condition and the equipment and furnishings installed therein shall be provided and well maintained during the above period by the Contractor. Computer with ups & required softwares, binding machine and leveling instruments shall be handover to the Employer in good condition at the end of the project period. All other Equipment and furnishing of office shall become the property of the Contractor thereafter.  The Contractor shall be provided a janitorial service to maintain a good working environment and security of the project office. At the end of the given period, the Contractor shall remove the office building as per the instructions given by the Engineer. | |
|  |  | **Mobile Office/s**  The Contractor shall provide and maintain mobile office/s for the use of the Engineer’s staff in numbers stated in the BOQ. Each office shall be established at locations as directed by the Engineer and shall be maintained by the Contractor until the completion of construction works.  The mobile office/s shall be provided with sufficient ventilation, weather proofed, insulated and painted internally and externally. Floor to ceiling height shall be at least 2.7 meters with approximate floor area 15m2. The office shall have external lockable doors and windows as necessary. The office shall be well lighted and ventilated.  Water Supply, electricity supply, air condition facility, sanitation facility and telephone shall be provided and maintained by the Contractor throughout the contract period.  Each mobile Office shall be supplied with the following new furniture, equipment and services: | |

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| --- | --- | --- | --- | --- | --- |
|  | |  | **Item** | **Quantity** | |
|  | |  | Steel tables 1.2m x 0.75m with two lockable drawers | ………. | |
|  | |  | Steel four drawer lockable filing cabinet | ………. | |
|  | |  | Arm chairs | ………. | |
|  | |  | Computers with UPS & required software | ………. | |
|  | |  | Water filters | ………. | |
|  | |  | Stand fans | ………. | |
|  | |  | File Trays | ………. | |
|  | |  | Leveling instrument | ………. | |
|  | |  | Personal Protection Equipment (PPE) | ………. | |
|  | |  | Partitioned first aid box with the regular prescribed medicines and general medical dressings. | ……….. | |
|  | |  | All office building and fittings in good condition and the equipment and furnishings installed therein shall be provided and well maintained during the above period by the Contractor. Equipment and furnishing of office shall become the property of the Contractor thereafter.  The Contractor shall be provided a janitorial service to maintain a good working environment and security of each office. At the end of the given period, the Contractor shall remove each office building as per the instructions given by the Engineer. | | |
|  |  | | Transport :  The Contractor is required to provide ……… nos. Vehicles (with engine capacity not less than 2400cc) including drivers, fuel and other consumables for sole use of the Engineer’s representative and his staff. Contractor shall maintain these vehicles in good condition during the Contract period. Vehicle shall have “Full Insurance”, insurance cover including passengers.  Vehicle shall be Air conditioned with Digital FM Radio/Cassette player/CD/DVD player/USB player and complete with standard accessories. Years of vehicle registration should be less than 8 years.  In case of absence of driver or repair of vehicle, Contractor shall provide alternative driver or alternative vehicle to continue the Engineer’s Representative and his staff’s works smoothly.  **Employer’s supportive service & supervision staff**  *Add relevant provisions for necessary employers supportive services & essential supervisory staff.* | |

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| 4.1 | | Contractor’s General  Obligations |  |
| 4.1 (d) | |  | **Add to the Sub-Clause:**  Contractor shall provide complete set of “as-built” drawings;   1. in AutoCAD format and submit 01 set of A3 size white paper hard copy and 01 soft copy in a CD. 2. in GIS format as per the Specification given in Volume 2: Section 6 in the Bidding Document.   . |
| 4.2 | | Amount of Performance Security | 5% of the Initial Contract Price, in the currencies and proportions in which the Contract Price is payable. The acceptable form is included in Volume 2: Section 12 – Standard Forms of the Bidding Document. |
| 4.9 | | Site Data | **Add to the Sub-Clause:**  It is compulsory that Contractor shall visit the site prior to bidding and carefully study the site conditions, environmental conditions, climatic conditions, site safety, possible risks that can be foreseen by an experience Contractor and acquaint themselves about all measures that have to be taken during the implementation of the Contract including operation, maintenance and Defects Notification Period until the Performance Certificate is obtained. |
| 6.4 | | Working hours | **Add to the Sub-Clause:**  Normal working hours should be 7.30a.m to 5.00p.m |
| 6.6 | | Health and Safety | **Add to the Sub-Clause:**  Contractor shall maintain health and safety at site in accordance with the health and safety regulations of the respective authorities of the Government of Sri Lanka and any additional precautions time to time to adhere strict compliance with these regulations and he shall indemnify the Employer from any acts by the Government of Sri Lanka and any courts of law. |
| 6.8 | | Contractors Personnel | **Add following to the Sub-Clause:**  The Contractor shall make his own arrangements for the engagement of all labour local or otherwise, and, save in so far as the Contract otherwise provides for the transport, housing, feeding and payment thereof. |
|  | |  | The Contractor shall where possible employ skilled and semi skilled labour possessing National Certificate of Trade Tests issued by the National Apprentices and Industrial Training Authority. The Contractor should ensure that at least 15% of his skilled/semi skilled labour force at any time possess National Trade Test Certificates. In the alternative, the Contractor should arrange for at least 15% of his skilled/semi skilled work force to be Trade Tested at the next National Trade Test being conducted by the National Apprentices and Industrial Training Authority. In respect of heavy earthmoving equipment operators, the percentage of those possessing the National Certificate of Competence or those required to be tested will be 100%.The failure of the Contractor to comply with the above will result in a deduction of 0.3% of each interim payment certificate until compliance with above when the amount withheld will be refunded. |
| 6.11 | | Construction Management Services | **Add following Sub-Clauses to the Clause 6:**  To ensure the proper management of the construction of the Works, the Contractor shall furnish the names, qualifications and experience of such engineering and technical personnel above the grade of Technical Officer, who he intends employing for the purpose of providing proper construction management services for the Works. The personnel so listed should have the same qualifications and experience and numbers as indicated in the Bidding Documents.Such personnel whether listed in the Bidding Document or not should be approved by the Engineer. The cost of these will be borne by the Contractor. |
| 8.7 | Liquidated damages for the Works | | Rs…….…….….. per Day. *(enter a value)* |
|  | Maximum amount of liquidated damages | | 10% of the Initial Contract Price. |
| 11.1 | Completion of outstanding work & remedying defects | | **Add to the Sub-Clause:**  Completion of outstanding works and remedying defects by the Contractor shall be done within the Defect Notification Period as may be notified in-writing by the Engineer or within 14 Days after Defects Notification Period as a result of an inspection made by the Engineer or his Representative at the completion of the Defect Notification Period in-writing. |
| 12.2 (b) | Method of Measurement | | The Method of Measurement shall be Civil Engineering Standard Method of Measurement, Third Edition (1991), (CESMM3) and SLS 573. |
| 13.4(b) | Percentage for adjustment of Provisional Sums | | Percentage for adjustment of Provisional sum is as stated in the Bill of Quantities. |
| 13.7 | Price Adjustments | | The Contract Price is subjected to price adjustment, if the Date for Time for Completion from the Commencement Date exceeds 3 months.  Weightings of Inputs are given in Appendix B.  Non adjustable elements are given in Appendix B. |

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| 14.2 | Total Advance Payment  Number and timing of installments | An Advance Payment of maximum of 20 % of the Initial Contract Price excluding provisional sums and contingencies shall be paid on submission of an unconditional Bank guarantee for Advance payment issued by a recognized Bank operating in Sri Lanka, approved by the Central Bank of Sri Lanka in the Form for Advance payment Security included in Volume 2: Section 12- Standard Forms and the Performance Guarantee as specified in the Bidding Document.  Number of Installments of Advance Payment is One(01)  Advance payment Guarantee shall be obtained at the Contractor’s cost. |
| 14.3 | Application for Interim Payment Certificate | **Replace the first paragraph of this Sub-Clause with the following paragraph;**  The Contractor shall submit a Statement including approved joint measurement sheets of the Work done for the period in three copies to the Engineer after the end of each month, in a form approved by the Engineer, showing in detail the amount to which the Contractor considers himself to be entitled, together with supporting documents which shall include the relevant report on progress during this month in accordance with Sub-Clause 4.14 [Progress Reports] and Subcontractor’s payment progress report. |
| 14.3 (c) | Percentage of retention | **Add to the Sub-Clauses:**  The retention from each payment shall be 10% of the certified work done. |
| 14.3(c) | Limit of Retention Money | The limit of retention shall be 5% of the Initial Contract Price. |
| 14.5 | Minimum amount of Interim Payment Certificates | **Add to the Sub-Clauses:**  Minimum Amount of Interim Payment shall be 25% of the average monthly value of Contract excluding provisional sums and contingencies. |
| 14.6 | Payment | **Delete the paragraph in Sub-Clause 14.6(b) and add the following paragraph;**  The amount certified in each Interim Payment Certificate within 42 Days after the Employer receives the Interim Certificate from the Engineer; and  **Add following paragraph**s **at the end of Sub-Clause 14.6;**  However, if the Employer finds sufficient evidence that the Works progress is substantially behind the schedule, the Employer shall instruct to request the Contractor to establish an ESCROW Account with a reputed local bank (ESCROW Agent) acceptable to the Central Bank of Sri Lanka an ESCROW Agreement. Refer Appendix-A of Contract Data for the ESCROW Agreement to ensure funds dispersed are utilized solely for the expenses under the Contract.  All payments to the contractor shall be made by local currency (LKR) and the foreign currency exchange rate at the time of payment shall be utilized as the conversion factor for any payment involved with foreign currency. |
| 14.8 | Payment of Retention | **Deleted the first paragraph and add the following:**  When Retention amount reaches 5% of Contract Price, upon the issuance of the Taking-Over Certificate the full amount of the Retention Money may be released on submission of unconditional, on demand guarantee for 2.5% of Contract Price issued by a commercial bank operating in Sri Lanka approved the Central Bank of Sri Lanka and acceptable to the Employer. This Guarantee shall be valid until 28 Days beyond the Defects Notification Period.  Format for Retention Money guarantee is given in Volume 2: Section 12 - Standard Forms of the Bidding Document. |
| 18.1 | Insurance for Works and Contractor’s Equipment | **Add to the Sub-Clauses:**  The minimum insurance covers shall be :  (a) • The minimum cover for insurance of the Works and of Plant and Materials is 115% of the Initial Contract Price.  (b) • The minimum cover for loss or damage to Equipment is the replacement cost of equipment. |
| 18.2 | Third Party Insurance (Including Employer’s Property) | (a) • The minimum cover for insurance of other property (other than the Site) is to cover the building and property adjacent to the site and reinstatement of ………………….. |
|  |  | (b)• The minimum cover for personnel injury or  Death or third party is Rs.1,000,000 per event. Number of events are unlimited. |
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| 18.3 | Insurance for Contractor’s Personnel | (a) The minimum cover for personal injury  or death,   1. For employees of the Employer and other persons engaged by the Employer in the Works is Rs 1,000,000 per event, Number of events are unlimited. |
|  |  | (b) The minimum cover for personal injury or  death,   1. for the Contractor's workmen is Rs. 1,000,000 per person, number of persons are unlimited. 2. Contractor's employees other than workmen is Rs 1,000,000 per person, Number of persons are unlimited. 3. Employer’s Employees and Consultant’s Employees is Rs.1,000,000/= per person. Number of persons are unlimited. |
|  |  | **Add the following Sub Clauses:**  Contractor shall bear all costs in connection with the damages to the works, his labourers, Employer’s staff and adjacent properties and pay any compensation to them. Contractor shall pay any loss of revenue to third party due to closure of roadways, and blockages of road ways or access to all business premises due to the implementation of the works of the Contract.  Contractor shall indemnify the Employer for any losses or damages or any compensation due to cause of the works under the Contract. |
| 19.2 | Dispute Resolution | **Delete the paragraph and replace with the following;**  Any dispute of whatever nature arising out of or in relation to this agreement shall in the first instance be attempted to be resolved by way of amicable settlement by the Employer and the Contractor. |
| 19.3 | Procedure for Adjudication | **Not Applicable.** |
| 19.4 | Replacement of Adjudicator | **Not Applicable.** |
| 19.5 | Arbitration | Venue : Colombo, Sri Lanka  Language: English |

**Add following as Clause 21**

1. **SUPPLY OF MATERIALS (MATERIALS/PIPES, FITTINGS, SPECIALS, ACCESSORIES, M&E EQUIPMENTS, MANHOLE COVERS AND VALVES) UNDER THE CONTRACT.**

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| **21.1** | **Use of Contract Documents and Information**  (a) The Contractor shall not, without the Employer's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Employer in connection therewith, to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.  (b) The Contractor shall not, without the Employer’s prior written consent, make use of any document or information enumerated in para 21.2 (a) except for purposes of performing the Contract.  (c) Any document, other than the Contract itself, enumerated in para 21.2 (a) hereof shall remain the property of the Employer and shall be returned (in all copies) to the Employer on completion of the Contractor's performance under the Contract if so required by the Employer. |
| **21.2** | **Inspections and Tests**  **Testing and Inspection Agencies**  (a) The Employer or his representative shall have the right to inspect and/or to test the Goods for their conformity to the Contract. The Contract Data of Contract and/or the Technical Specifications shall specify what inspections and tests the Employer requires not specified anywhere and where they are to be conducted. The Employer shall notify the Contractor in writing of the identity of any representatives retained for these purposes.  (b) The inspections and tests may be conducted on the premises of the Manufacturer or his Subcontractor(s), at point of delivery and/or at the Good's final destination. Where conducted on the premises of the Manufacturer or its Subcontractor(s), all reasonable facilities and assistance including access to drawings, documents and production data shall be furnished to the inspectors at no charge to the Employer.  (c) Should any inspected or tested Materials fail to conform to the specifications, the Employer may reject them and the Contractor shall either replace the rejected Materials or make all alterations necessary to meet specification requirements free of charge to the Employer.  (d) The Employer's right to inspect, test and, where necessary, reject the Materials after the Materials arrival in the Employer's stores shall in no way be limited or waived by reason of the Materials having previously been inspected, tested and passed by the Employer or its representative prior to the delivery of Materials or Materials shipment from the country of origin, in case of importing.  (e) The Employer requires the Materials to be supplied under this contract shall conform to the requirements given in Section 6. The Supplier shall obtain the Certificates of Inspection for the specific requirement of this contract document carried out by an Authorized Accredited Agency which is a member of International Accreditation Forum (IAF) acceptable to the Employer. The Authorized Accredited Agency shall have the authority for the accreditation of mentioned Materials in their scope of accreditation.  (f) The selected inspection authority’s name to same has to be given in summary of price schedule. On the acceptance of the bid, the Employer shall inform directly to the selected inspection authority with a copy to the Contractor, the specific requirements for testing including deviations accepted by the Employer, if any, to be tested. However, the payment to the Inspection Authority has to be made directly by the Contractor on production of test reports.  (g) Nothing in Clause 21 shall in any way release the Contractor from any warranty or other obligations under this Contract.  (h) The Contractor shall obtain the approval of the Engineer to ship the Materials to be imported for the Works or to deliver such materials and plant to the site. Applications for such consent to ship shall be accompanied by manufacturer’s test certificates and certificates of inspection prescribed in the Contract or agreed with the Engineer. Application shall be made so as to give the Engineer a reasonable time to deal with such applications.  (i) Nominated Inspection Agency shall carryout inspection and testing during Manufacturing process, after Manufacturing and at any time prior to shipping and shall confirm that Materials are in conformity with specifications included in the Contract document. He shall submit his inspection report to the Employer including all items given in the Terms of Reference (TOR) for the Nominated Inspection Agency which is included in the Contract document as Appendix – 13. |
| **21.3** | **Pre-shipment Inspection by the Nominated NWSDB Engineers for Foreign Manufacturers** |
|  | The Contractor shall arrange for two (2) numbers of Nominated NWSDB Engineers for pre-shipment inspection visit to country of manufacture before dispatching the DI/HDPE Pipes, Fittings, Valves, Specials and Accessories etc. and Treatment Plant equipment.  Each shipment should be inspected by Nominated NWSDB Engineers before dispatching at Manufacturer’s factory.  The Contractor shall in his bid provide detailed proposals for pre-shipment inspection visit he offers to provide under this Clause. The following guidelines shall be used by the Contractor to formulate his proposals. |
|  | 1. The duration of inspection for Pre-shipment Inspection by Nominated NWSDB Engineers shall be worked out based on following guidelines. 2. If DI pipes and fittings are manufactured in same premises, duration of the inspection shall not be less than Eight (8) Days. 3. If DI pipes and fittings are manufactured in different premises, duration of the inspection shall not be less than Ten (10) Days. 4. If HDPE pipes and fittings, duration of the inspection shall not be less than Ten (10) Days. 5. DI valves Eight (8) Days.   (b) Most of the time shall be centered round the manufacturer’s goods which the Contractor proposes to use in the work.   1. The inspection at the specific manufacturer shall include;    * A general introduction to the manufacturer’s country, area, town & source of materials, etc.    * introduction to design standards and procedures adopted.    * introduction to relevant production procedures and quality control standards.    * manufacturing process, and Quality Assurance procedure.    * testing procedures, mill certificates, product conformity certificate, Quality Management System Certificate and any other relevant certificates etc. regarding the products.    * packing & dispatching procedure    * Site visits to inspect installed or application of similar products/materials. |

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|  | (d) The Nominated NWSDB Engineers shall be guided by experienced engineers and quality controllers who are also competent in English language.  (e) Each Nominated NWSDB Engineer shall be paid a per diem to include combined allowances, the allowance the amount specified in the Appendix 18 prior to departure.  (f) All visas, Insurance (Life, Health and Travel), air fares, permits, taxes, transfer fees, travelling within the manufactures country and all other facilities required to carry out pre-shipment inspections at the manufacturer’s factory/premise shall be arranged by the Contractor and shall be included in the rates and prices of the contract. Contractor is not liable for providing food and accommodation. Contractor shall assist Nominated NWSDB Engineers for booking accommodation if requested.  (g) The Nominated NWSDB Engineers shall be provided Terms of Reference (TOR) as shown in Appendix-13A, 13B, 13C, & 13D for the inspection jointly agreed by the Contractor and the Engineer and with printed catalogues, manuals, illustrative videos etc., relevant to the manufacturing process and also obtain extra information requested by them, and shall arrange to dispatch these to Nominated NWSDB Engineers, by the Contractor at his own cost.   1. Contractor shall provide a detailed programme (itinerary) showing details of inspection, travelling, and all other arrangement etc. required for the pre-shipment Inspection and submit to the Inspection team prior to departure. Contractor shall discuss the inspection programme in detail with the inspection team and shall be agreed with the Pre-shipment Inspection team prior to departure. Contractor shall assist for obtaining visa for the inspection from the relevant Embassy/High commission for Nominated NWSDB Engineers. |
|  | (j) Nominated NWSDB Engineers shall inspect and test DI/HDPE Pipes, Fittings, Valves, Specials and Accessories etc. and Treatment Plant equipment as per the attached check lists for pre shipment as given in Appendix-15A & 15B respectively. Manufacturers should perform any other tests which may be required by the Nominated NWSDB Engineers.    (k) Nominated inspection agency shall be present during pre-shipment inspection by the Nominated NWSDB Engineers and shall assist the Nominated NWSDB Engineers for the testing and inspection.  (l) Any inspections carried out by Inspection Agencies or Nominated NWSDB Engineers shall not relieve the Contractor of his obligations under the Contract.  (m) Contractor/Manufacturer shall not ship/deliver by plane materials from the manufacturers Factory or Stores without approval of the Engineer. |
| **21.4** | **Pre-delivery Inspection by the Nominated NWSDB Engineers for Local Manufacturers**  The Contractor shall arrange for two (2) number of Nominated NWSDB Engineers for pre-delivery inspection visit of local manufacturer before dispatching the HDPE Pipes, fittings, Specials and Accessories etc.  Each delivery should be inspected by Nominated NWSDB Engineers before dispatching at Manufacturer’s factory.  The Contractor shall in his bid provide detailed proposals for pre-delivery inspection visit he offers to provide under this Clause. The following guidelines shall be used by the Contractor to formulate his proposals.   1. Most of the time shall be centered round the manufacturer’s goods which the Contractor proposes to use in the work. 2. The inspection at the specific manufacturer shall include;    * introduction to design standards and procedures adopted.    * introduction to relevant production procedures and quality control standards.    * manufacturing process, and Quality Assurance procedure.    * testing procedures, mill certificates, product conformity certificate, Quality Management System Certificate and any other relevant certificates etc. regarding the products.    * packing & dispatching procedure.    * Site visits to inspect installed or application of similar products/materials.   (c) The Nominated NWSDB Engineers shall be guided by experienced engineers and quality controllers who are also competent in English language.  (d) The Nominated NWSDB Engineers shall be provided Terms of Reference (TOR) as shown in Appendix-13B for the inspection jointly agreed by the Contractor and the Engineer and with printed catalogues, manuals, illustrative videos etc., relevant to the manufacturing process and also obtain extra information requested by them, and shall arrange to dispatch these to Nominated NWSDB Engineers, by the Contractor.  (e) Nominated NWSDB Engineers shall inspect and test HDPE Pipes, fittings, Specials and Accessories etc… as per the attached check lists as given in Appendix-15B. Manufacturers should perform any other tests which may be required by the Nominated NWSDB Engineers.    (f) Nominated inspection agency shall be present during pre-delivery inspection by the Nominated NWSDB Engineers and shall assist the Nominated NWSDB Engineers for the testing and inspection.  (g) Any inspections carried out by Inspection Agencies or Nominated NWSDB Engineers shall not relieve the Contractor of his obligations under the Contract. |

**21.5** **Packing**

(a) The Contractor shall provide such packing as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination and the absence of heavy handling facilities at all points in transit.

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(b) The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract and, any subsequent instructions ordered by the Employer.

(c) Each package shall be marked on three sides with proper indelible paint as follows:

1. National Water Supply & Drainage Board, Sri Lanka
2. Contract Number
3. Description of Materials
4. Country of Origin of Materials
5. Suppliers' Name
6. Packing List Reference Number
   1. **Transportation**

The Contractor shall be required to meet all transport and storage expenses until delivery to the destination as specified in the Contract.

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The pipe materials and pipe appurtenance shall be stored in Contractor’s stores within reasonable distances from Work sites and only the quantities that can be laid in excavated trenches for the daily work shall be kept along the road. Left-overs shall not be kept at the roadsides and it shall be returned to the Contractor’s stores.

* 1. **Incidental Services**

(A) The Contractor shall provide any or all of the following services, if required, without any extra cost to the Employer.

(a) Furnishing of tools required for assembly and/or maintenance.

(b) Furnishing of a detailed installation, operations and maintenance manual for each appropriate unit.

(c) Conduct training of the Employer’s personnel, at the Manufacturer’s plant and/or on-site, in assembly, operation, maintenance and/or repair as appropriate.

(d) Demonstration of pipe laying prior to commencement.

(B) Prices charged by the Contractor for the preceding incidental services, shall be included in the Contract Price.

* 1. **Spare Parts**

The Contractor shall be required to provide the following materials and notifications pertaining to spare parts manufactured or distributed by the Contractor:

(a) Such spare parts as the Employer may elect to purchase from the Contractor, provided that this election shall not relieve the Contractor of any warranty obligations under the Contract;

(b) The Contractor shall carry sufficient inventories to assure ex-stock supply of consumable spares such assure local agents of Equipments as Gaskets, Plugs, Bolts, Nuts and Washers etc.

* 1. **Warranty**

(a) The Employer warrants that the Materials supplied under the Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless otherwise provided in the Contract. The Contractor further warrants that Materials supplied under the Contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the Employer’s Specifications) or from any act or omission of the Contractor, that may develop under normal use of the supplied Materials in the conditions prevailing in the country of final destination.

1. This warranty shall remain valid for twelve (12) months after Materials, or any portion thereof as the case may be, have been delivered and commissioned to the final destination indicated in the Contract.

(c) The Employer shall promptly notify the Contractor in writing of any claims arising under this warranty.

(d) Upon receipt of such notice, the Contractor shall, with all reasonable speed, repair or replace the defective Materials or parts thereof, without costs to the Employer other than, where applicable, the cost of inland delivery of the repaired or replaced Materials or parts from the port of entry to the final destination.

**APPENDIX-A**

**ESCROW Agreement**

**THIS AGREEMENT** is made and entered into at Colombo on this ….. day of *…………… ………………………[insert month and year]* in the Democratic Socialist Republic of Sri Lanka

**BY AND BETWEEN**

**National Water Supply & Drainage Board**, a corporate body duly established under the provisions of the National Water Supply and Drainage Board Act No.2 of 1974 (hereinafter referred to as **NWSDB**) of having its Head Office at Ratmalana in Sri Lanka (hereinafter referred to as the **‘Employer’** or **‘the Board’** and its successors and assigns)

**AND**

**…………………………………………………..** a firm duly registered in the said Republic of Sri Lanka under Partnership Agreement Bearing No. ………… and having its Registered Office at ……………………………………………………………………………………………. **OR/AND** ……………………………………………………………. (Company name) a company duly incorporated in …………………………………….(Country in incorporation) under the provision of the Companies Act/Country legislation No. …………………… and having its Registered Office at ……………………………………………………………………………. (address of the Registered Office) in ………………………………. (Country) (hereinafter referred to as the **‘Contractor’** and its successors and assigns)

**AND**

……………………………………………………..[*insert the name of the Bank*] a Banking Company incorporated under the laws of Sri Lanka and having its registered office at …………………………………………………………………………. and a branch office at …………………………………………………………… (hereinafter called and referred to as the “**ESCROW Agent**” which term or expression as herein used shall where the context so requires or admits mean and include the said …………………………………[*insert the name of the Bank*] and its successors and assigns)

**(The Employer, the Contractor and the ESCROW Agent are hereinafter and sometimes collectively referred to as ‘the Parties’)**

**WHERE AS THE EMPLOYER AND THE CONTRACTOR ARE PARTIES TO STANDARD OPERATING PROCEDURE FOR OPERATION OF JOINT ESCROW ACCOUNT FOR COMPLETION OF WORKS OF .....................……………… ………………………………. PROJECT FOR:**

1. CONTRACT NO: …………...……………………………………………………………..………………………………………………………………………………………………
2. CONTRACT NO: …………...……………………………………………………………..………………………………………………………………………………………………
3. CONTRACT NO: …………...……………………………………………………………..

................................................................................................................................

(hereinafter referred to as the **“Project”**)

**NOW THIS AGREEMENT WITNESSETH THAT THE PARTIES HEREBY AGREE AS FOLOWS:**

1. **Appointment**

The Employer and the Contractor hereby appoint ……………………[*insert the name of the Bank*] ………………….. BRANCH the ESCROW Agent and the joint ESCROW Accounts shall be opened for each project in the name of the Contractor. Withdrawals from this account shall only be made by way of joint written request/ fund transfer order duly signed by a signatory for the Contractor and a signatory for the Employer. The Contractor ……………………….………….. [ insert the name of the Contractor] shall authorize two signatories for each Project / Account and NWSDB shall authorize two signatories to operate this account.

1. **The Accounts**

The Account shall solely constitute for the money due to the Contractor, ………………………………………………………………[*insert the name of the Contractor*] in the form of loan disbursement, additional advance, Interim Payment Certificates (IPCs), escalation claims or any other money due on account of Contract payments.

1. **Auditing**

The internal audit of the ESCROW Account shall be the co-responsibility of the NWSDB and the …………………………………………………………… [ *insert the name of the Contractor*].

1. **Operation in Accounts**

No cheque books are issued for the ESCROW Accounts. The Cash/Funds out of the ESCROW Account shall only be made under the authorized signature of the Employer and the Contractor.

1. **Payments**

Payments from the ESCROW Account shall be processed as follows:

1. Once the ESCROW account is established, payments of all future certified IPCs shall be deposited in the ESCROW Account.
2. Limitation on transactions:

Transactions out of the ESCROW Account shall be limited to payments under the project including Salaries/Wages, Utility Bills, Subcontractors, Suppliers, Service Renders, maintenance work, material supplies, administration requirements, individual dues, etc.

1. The Contractor shall request disbursements from the Committee specified under 5(d) in this Agreement by listing items in appropriate grouping of Salaries/Wages, Utility Bills, Subcontractors, Suppliers, Service Renders, maintenance work, material supplies, administration requirements, individual dues, showing the total amount required for each item listed. Appropriate summary and detailed assessments shall accompany the request. Notwithstanding above, the disbursement against Head Office Overheads shall constitute a mutually agreed amount and the same shall be paid directly to an account as requested by …………………………………………………..…………………… [ *insert the name of the Contractor*].
2. The committee comprising of the Project Director (NWSDB), Consultant Team Leader, and Project Manager of the Contractor, Accountant of the Contractor ……………………………………………………..….…. [ *insert the name of the Contractor*], shall review the requested list, and determine if the requirements are appropriate to the needs of the Contractor’s activities on the Project. Once approved/agreed, the disbursement payment shall be issued directly to agreed creditors/suppliers. The committee must ensure that;
3. The materials are in accordance with the specifications for the Works.
4. The materials have been delivered to the site and they are properly stored and protected against loss, damage, or deterioration.
5. The Contractor’s records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records are available for inspection by the Engineer.
6. The Contractor has submitted a statement certified by the Employer of his cost of acquiring and delivering the materials to the Site, together with such documents as may be required for the purpose of evidencing such cost.
7. No cash payments will be made through this account
8. All written requests duly signed by the Employer and the Contractor shall be submitted to the bank before 15th of each month.
9. No Facsimile transactions requests shall be accepted
10. Any unreasonable imbalance between the amount paid out from the ESCROW account and the agreed list of payments shall result in further disbursements from the ESCROW account being stopped until the required information/explanation is provided.
11. **Bank Interest**

Any bank interest gained on balance amount in ESCROW account shall be that of ………………………..………………………………………….. [ *insert the name of the Contractor*]

1. **Disputes**

The ESCROW Account shall operate within the provisions of terms, conditions and clauses of the Contract. In case of any Conflict between ………………………………………………………………… …….[ *insert the name of the Contractor*] and NWSDB, the provisions of this ESCROW agreement shall hold preference. In the case of such dispute the ESCROW Agent shall have sole authority to cease the operation of such ESCROW account immediately.

1. **Maintaining Cash Books**

The cash book shall be maintained by the Project Manager, of ……………………………………………………………………………… [ *insert the name of the Contractor*] and it will be countersigned by the Employer’s Representative. The cash book shall be closed on monthly basis.

1. **Period**

By operation on this ESCROW Account, the Contractor is not relieved of any of its obligations under the Contract Agreement with respect to completion of the Works on time as stated in the Contract.

1. **The Role of ESCROW Account**

The role of the ESCROW Account is limited to ensure smooth flow of finance to the project by channeling project payments for speedy execution of the project.

1. **Termination of the ESCROW Agreement:**

The ESCROW Account may be terminated when the full amount of all mobilization advance and additional advance are repaid and the whole of the Works are “Taken Over’ by the Employer, or when the original Contract of the Project between the NWSDB and the ………………………………………………………………………. [ *insert the name of the Contractor*] comes to an end. On termination of the account all remaining funds shall be paid to the Contractor subject to any dues to be recovered by the ESCROW Agent.

1. **Amendments**

Employer has the right to add any amendments with the written consent of the Contractor and the ESCROW Agent when it is necessary in the interest of public money.

1. **Governing Law**

This Agreement shall be construed in accordance with the Laws of the Democratic Socialist Republic Sri Lanka and be subjected to the Jurisdiction of the Courts of Sri Lanka.

1. **Miscellaneous**
2. Good Faith

The Parties hereto agree and recognize that not all matters forming the intent of the Parties hereto may be incorporated in this Agreement and not all possibilities which may arise in connection with the subject matter hereof can be foreseen at the time being and fully provided for at the execution of this Agreement. Where any omission or lacuna becomes known. The Parties hereto agree to amend in writing this Agreement to cover such omission or lacuna in conformity with spirit of this Agreement.

1. Severability

If any provision of this Agreement or the application to any party or circumstances are determined to be invalid, illegal or unenforceable to any extent, the remainder of this Agreement or such provision or the application of such provision to such party or circumstances, other than those to which it is so determined to be invalid, illegal or unenforceable, will remain in full force and effect to the fullest extent permitted by law and will not be affected thereby unless such a construction would be unreasonable.

1. Assignment

This Agreement shall ensure to the benefit of and shall be legally.

1. Non – waiver

The failure of either party to enforce a provision of this Agreement shall not be construed as a waiver of any of their rights and obligations in terms of this Agreement. The rights or remedies hereof are cumulative to any other rights or remedies, which may be granted by law.

1. Accrued Rights/Obligations

All of the rights and obligations referred to in this Agreement shall apply during the period of this Agreement provided that where any right(s) and/or obligation(s) has been accrued, such right / obligation shall nevertheless be complied with even after the termination of this Agreement.

1. Entire Agreement

This agreement sets forth the entire understanding between the parties concerning the subject matter of this Agreement and incorporates and supersedes all prior negotiations and understandings of the same.

1. Joint Preparation

This Agreement is to be deemed to have been prepared jointly by the Parties hereto and any uncertainty or ambiguity existing herein shall be interpreted according to the application of the rules of interpretation.

1. **Notices**

Any notice of or other communications to be given or sent by the Employer/ Contractor/ ESCROW Agent shall be in writing and any be as provided hereunder served personally or sent by email or facsimile or registered mail to the addresses and to the persons as set out herein and shall be deemed to have been given as follows.

If personally served when served / or any email or by facsimile, on the second business day after transmission thereof on a facsimile machine to the proper fax number or if emailed to the proper email address /or if mailed (by registered post) on the third business day after deposit in the mail with postage pre – paid and properly addressed.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year aforementioned in accordance with the laws of Sri Lanka.

Signed by the said …………………………………………. Chairman, National Water Supply and Drainage Board and ……………………………………………. Board Member of **the National Water Supply and Drainage Board** at …………………………………… on the …………. day of ………………………….. Two Thousand and ……………….. in the presence of the following Witnesses.

Chairman …………………………………

Board Member ……………………………

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**Witnesses**

1. Signature ……………………. 2. Signature : ………………………

Name : ……………………. Name : ………………………

Address : ……………………. Address : ………………………

……………………. ………………………

……………………. ………………………

For and on behalf of the **Contractor** : signed by the said ……………………………………in the capacity of …………………………………………………………………………. and/or duly authorized to sign this Contract agreement for and on behalf of ..………………...……..

…………………………………………………………………………………………………..

……………………………………………………………… (Block Letters).

Authorized Signature of the **Contractor** and the Company seal: ……………………………..

**Witnesses**

1. Signature ……………………. 2. Signature : ………………………

Name : ……………………. Name : ………………………

Address : ……………………. Address : ………………………

……………………. ………………………

……………………. ………………………

For and on behalf of the **ESCROW Agent** : signed by the said ……………………………in the capacity of ………………………………………………………………………... and/or duly authorized to sign this Contract agreement for and on behalf of ……………………………..

……………………………………………………………… (Block Letters).

Authorized Signature of the **ESCROW Agent** and the Company seal: ………………………..

**Witnesses**

1. Signature:……………………2. Signature : ………………………

Name : ……………………. Name : ………………………

Address : ……………………. Address : ………………………

……………………. ………………………

……………………. ………………………

**Appendix-B**

**For Contract Data**

* 1. **Input Percentages for Major Items**

With reference to Sub – Clause 13.7 (b) of the Conditions of Contract, the “input percentages’ for major items are

|  |  |
| --- | --- |
| **Input Name** | **Input Percentage** |
|  |  |
| **Total** | **90.0%** |

**Non Adjustable Elements**

With reference to Sub-Clause 13.7 (c) of the “Conditions of Contract” the BOQ item Nos. that shall be considered as ‘Non- Adjustable elements’ are

Items in General Bill, Provisional Sums, DI/HDPE Pipes, Fittings, Specials, accessories and Valves (All pipes, fittings, specials, accessories and valves), mechanical, electrical and automation items and any other items which does not belong to the categories of Inputs listed above).

………………………………………………………………………………………………

………………………………………………………………………………………………

(State if there are any others) ………………………………………………………………………………………………

………………………………………………………………………………………………

**6. SPECIFICATIONS**

**List of Specifications**

|  |  |  |
| --- | --- | --- |
|  | **Works** |  |
|  | **CIDA General Specifications:** |  |
| 1 | Civil Engineering Construction | **6a** |

* *Add the relevant list of NWSDB Standard Specifications to the document* ***from below list according to the requirement of the work.***
* *Add the all Specifications selected from this list to the document* ***from NWSDB web (under the “Restrict inks”) when preparing the Bidding Document.***

|  |  |  |
| --- | --- | --- |
| **NWSDB Standard Specifications List** | | |
|  | **The sections of each specification come under CIDA General Specifications given above shall be superseded from the following NWSDB Standard Specifications.** |  |
| **No.** | **Name of Specification** | **Page No.** |
|  | **Works** |  |
| 2 | Trench Excavation, Backfilling and Road Reinstatement for Pipe Laying | **6b** |
| 3 | Service Connection | **6c** |
| 4 | Trenchless Pipe Installation | **6d** |
| 5 | Instruction For Prevention Of Mosquito Breeding | **6e** |
| 6 | Surveying Works | **6f** |
| 7 | Timber Works | **6g** |
| 8 | Pipeline Warning Tape | **6bc** |
| 9 | Mastic Materials & Installation | **6bj** |
| 10 | Pressure Testing for DI & HDPE Pipes | **6bk** |
| 11 | As-built information in GIS format | **6bf** |
|  | **Pipes, Valves & Accessories** |  |
| 1 | DI Pipes, Fittings, specials and accessories for Water supply | **6h** |
| 2 | HDPE Pipes, Fittings, special and accessories for Water Supply | **6j** |
| 3 | Valve, Hydrants, Surface Boxes & Manhole Covers | **6m** |
| 4 | Mechanical Couplings, Repair Clamps and Flange Adaptors | **6n** |
| 5 | Clamp Saddles | **6o** |
| 6 | Ball Valves | **6p** |
| 7 | Stop Valves | **6q** |
| 8 | Repair Clamps | **6r** |
| 9 | Penstocks & Headstocks | **6w** |
| 10 | Supply and Installation of power surge protection devices | **6ai** |
| 11 | PP Clamp Saddles | **6bf** |
| 12 | Surge vessels & Air compressor | **6aj** |
|  | **Air Condition & Lighting Protection** |  |
| 1 | Air Conditioner - Window type | **6ap** |
| 2 | Air Conditioner - Split & Cassette Type | **6aq** |
| 3 | Lighting protection system | **6ar** |
|  | **Office Equipments** |  |
| 1 | Computer | **6ax** |
| 2 | Photo Copier | **6ay** |

|  |  |  |
| --- | --- | --- |
| **No.** | **Name of Specification** | **Page No.** |
|  | **Miscellaneous** |  |
| 1 | Hiring of Vehicle (English) | **6az** |
| 2 | Hiring of Vehicle (Sinhala) | **6bm** |
| 3 | Janitorial works | **6ba** |
| 4 | Water Bowsers | **6be** |
| 5 | Pontoon Intake | **6bg** |

Note:

1. Bidder shall submit a detailed technical comparison (Specified Vs Supplied) if their products deviate from performance criteria manifested in the Specifications.

**7. SCHEDULE OF PARTICULARS**

**SCHEDULE OF PARTICULARS**

(Information to be provided by the Bidder for the supply items only after reference to the Specifications, Bills of Quantities and Appendices).

Note: Where pamphlets, catalogues and drawings are accompany with the bid, their reference should be quoted in the Schedule of Particulars.

Copies of the Technical Literature with regard to pipes, specials and fittings shall be submitted to establish conformity with BS, BS EN or ISO standards along with ISO 9001:2015Quality Management System Certification, together with the offer.

1. Ductile Iron (DI);

1.1 Pipes & Fittings.

1.2 Mechanical Couplings & Flange Adaptors.

1.3 Manhole Covers & Surface boxes.

1. DI Valves and Accessories:

2.1 Gate/Sluice Valves.

2.2 Butterfly Valves.

2.3 Air Valve.

2.4 Check Valves.

2.5 Pressure Reducing Valves.

2.6 Pressure Sustaining/Relief Valves.

2.7 Flow Control Valves.

2.8 Altitude Valves.

2.9 Ball Float Valves.

2.10 Flap Valves.

2.11 Fire Hydrants.

2.12 Fire Hydrants - Dry Barrel Type.

1. Joint Protection Material.
2. High Density Polyethylene (HDPE) pipes and fittings.

**SCHEDULE OF PARTICULARS**

**1.** **DUCTILE IRON (DI)**

**1.1 PIPES AND FITTINGS**

1.1.0 Name of the Manufacturer: (1) Pipes …………………………………………………

(2) Fittings………………………………………………

1.1.1 Country of manufacture: (1) Pipes ……………………………………………………

(2) Fittings…………………………………………………

1.1.2 Manufacturers’ Address: (1) Pipes ………………………………………..

…………………………………………………….

(2) Fittings ………………………………………

……………………………………………………

1.1.3 1.1.3.1 Standards to which pipes and fittings conform:

(1) Pipes ………………………………

(2) Fittings ……………………………

* + - 1. No of Shipments proposed by the Contractor: ……………………..

1.1.4 Is Certificate for conformity to standards from relevant standards Institution provided

to the factory/factories : (1) Pipes ………………….

(2) Fittings ………………..

1.1.5 Is ISO 9001:2015 Quality Management System Certificate provided to the

factory/factories:

(1) Pipes ……………………

(2) Fittings …………………

1.1.6 Class of Pipes and fittings:

Class

S/S Pipes ………………..

Pipes with integral casted flanges ………………..

Pipes with factory welded flanges ………………..

Pipes with screwed flanges ……………….

Tees …………………

Bends & Other Fittings ……………….

1.1.7 Whether factory welded flange pipes tested for each flanged joint? ...............

1.1.8 Whether Pipes & Fittings are from same Manufacturer? …………..

1.1.9 Gaskets, Joint rings and Lubricant:

1.1.10 Standard to which Gaskets, Joint rings conforms: ……………………………

1.1.11 Is Certificate for conformity to standards from relevant standards Institution provided

to the factory/factories : ………………

1.1.12 Make of Gaskets, Joint rings and Lubricant:

Make

Gaskets ………………

Joint rings ………………

Lubricant ………………

1.1.13 Material of Gaskets, Joint rings and Lubricant:

Gaskets ………………

Joint rings ………………

Lubricant ………………

1.1.14 Hardness range of Gaskets and Joint Rings

Hardness Range (1RHD)

Gaskets ……………………

Joint Rings ……………………

1.1.15 Standard to which Flanges conform : ………………………………

1.1.16 Whether Flanges are integrally casted or Factory welded ? …………………………

1.1.17 Type of external coating and grade : …………………………………………………

1.1.18 Standard to which external coating conform: …………………………………………

1.1.19 Type of internal coating/lining and standard: ………………………………………..

1.1.20 Standard to which nuts and bolts, washers conform and the type of material:

Standard …………………………………..

Material ……………………………………

1.1.21 Standard to which polyethylene sleeving conform and the colour

Standard ………………………….

Colour …………………………...

1.1.22 Quantity of joint protection materials required per flanged joint as per manufacturer’s

recommendation

Diameter Mastic Paste Tape HD Polyethylene outer

(mm) /Primer (litres) (kg) (m) wrapping (m)

150 …………….. ………….. ………….. …………………….

200 ……………. …………. …………. …………………….

………. ……………. …………. …………. …………………….

……… ……………. ………… …………. …………………….

1.1.23 Port of shipment : …………………………………………………………………….

1.1.24 Packing and protection in transit : ………………………………….

1.1.25 Time of delivery: …………………………………………………….

1.1.26 Reference of the catalogues, technical literature, drawing provided with the Bid: …....

1.1.27 Name and address of the Supplier’s accredited agent in Sri Lanka: …………………..

1.1.28 Deviations from specifications (if any): ……………………………………………….

**1.2 MECHANICAL COUPLINGS AND FLANGE ADAPTERS**

1.2.0 Name of the Manufacturer : ………………………

1.2.1 Country of manufacture :………………………….

1.2.2 Manufacturers’ Address:……………………………………………………

1.2.3 1.2.3.1 Make, Material, Hardness Range and Standard :

Make Material Hardness Standard Date of

Range Manufacture

Sleeve: …………. ……….. N/A .………… ………………

Flange : …………. ……….. N/A ………… ………………

Gaskets: …………. ………. …………. ………… ………………

Joint Rings: …………. ……….. ………… ………… ………………

* + - 1. No of Shipments proposed by the Contractor: ……………………………

1.2.4 Type of external coating and thickness: ………………………………………………

1.2.5 Type of internal coating and lining: ……………………………………………………

1.2.6 Time of Delivery: ……………………………………………………………………

1.2.7 Port of Shipment: …………………………………………………………………….

1.2.8 Reference of the catalogues, technical literature, drawings provided with the Bid:

1.2.9 Name and Address of supplier’s agent (if any) in Sri Lanka ………………………..

1.2.10 Deviations from Specifications (if any): ………………………………………………

1.2.11 Is ISO 9001:2015 Quality Management System Certificate provided to the Factory ………………..

**1.3 SURFACE BOXES AND MANHOLE COVERS**

* 1. Name of the Manufacturer: ……………………………

1.3.1 Country of Manufacture: …………………………….

1.3.2 Manufacturer’s Address: ………………………………………………….

1.3.3 Material: ………………………………………

1.3.4 Class, Make, Standard and Date of Manufacture

Class Make Standard Date of Manufacture

Manhole Covers: ……… ……….. ………… ………………

Surface Boxes: ………. ………. …………. …………………

1.3.5 Coating: …………………..

1.3.6 Lifting arrangements:

Manhole Covers: ………………

Surface Boxes: ……………………

1.3.7 Name and Address of Supplier’s agent (if any) in Sri Lanka: ……………………….

1.3.8 Port of Shipment: ……………………………

1.3.9 Time of Delivery of Material at port of shipment:………………………….

1.3.10 Deviations from Specification (if any):…………………………..

**2.** **DI/CI VALVES AND ACCESSORIES**

**2.1** **GATE/SLUICE VALVES**

2.1.0 Name of the Manufacturer : ………………………

2.1.1 Country of Manufacture : …………………………………………..

3.1.2 Manufacturer’s Address: …………………………………

2.1.3 Date of Manufacture: ………………………………………………..

2.1.4 2.1.4.1 Standards to which valves conform …………………………………

2.1.4.2 No of Shipments proposed by the Contractor : ………………………

2.1.5 Is certificate for conformity to standards from relevant Standards Institution provided to the factory/ factories …………………………….

2.1.6 Is ISO 9001 : 2015 Quality Management System Certificate provided to the factory/ Factories ……………………….

2.1.7 Material

Body : ………………………………………………………

Spindle : …………………………………………………….

Metal faces and seal: ………………………………………….

2.1.8 Length between flanges (mm):…………..

2.1.9 End flanges - Pressure Rating: …………………………

Dimensions (mm): ………………………

Bolt Circle dia. (mm): …………………………

2.1.10 Whether gearing arrangement Provided : ……………………….

Gear Ratio

Unbalanced head: ………………..bars

Seat test pressure: ………………. bars

Body test pressure: ……………… bars

2.1.11 Internal protection : ………………………………………………………..

2.1.12 External protective finish: ………………………………………………………..

2.1.13 Weight of the valve …………….. kgs ………………………………

2.1.14 Packing and protection of valves in transit: ……………………………

2.1.15 Reference of the catalogues, technical literature and drawing provided with the Bid:

2.1.16 Port of shipment: ………………………………………..

2.1.17 Time of delivery of valves at the port of shipment: ……………………………………

2.1.18 Name and Address of Supplier’s accredited agent in Sri Lanka: ………………

2.1.19 Deviations from Specifications (if any):

**2.2** **BUTTERFLY VALVES**

2.2.0 Name of the Manufacturer : ………………………

2.2.1 Country of Manufacture ……………………..

2.2.2 Manufacturer’s Address: …………………………………………………

.…………………………………………………...

2.2.3 Date of Manufacture:…………………….

2.2.4 2.2.4.1 Standard to which valves conform: …………………………………….

2.2.4.2 No of Shipments proposed by the Contractor : ……………………….

2.2.5 Is certificate for conformity to Standards from relevant Standard Institution provided to the factory/ factories. ………………….

2.2.6 Is ISO 9001 : 2015 Quality Management System Certificate provided to the factory/ factories. ………………………………….

2.2.7 Material

Valve body:

Valve disc:

Valve seat:

Shaft:

Shaft seals:

2.2.8 Valve body : Whether Rubber lined ? if so material : …………………….

2.2.8.1 Standards to which gaskets conforms :………………………………

2.2.8.2 Is certificate for conformity to Standards from relevant Standard Institution provided to gaskets :. ………………….

2.2.8.3 Face to face dimensions of the valves (mm) :…………….

2.2.8.4 End Flanges

Pressure rating:…………

Dimensions (mm):…………..

Bolt circle dia. (mm):………………….

2.2.8.5 Standard to which nuts and bolts conform and the material:……………………..

2.2.8.6 The type of operating gear for the valve:……………………………..

2.2.8.7 Operating method of the valve (hand wheel/Tee key):…………………………….

2.2.8.8 Whether Gearing arrangement is provided : ……………….

Gear ratio of gearing:……………

Unbalanced head: ……………. Bars

Seat test pressure : …………………… Bars

Body test pressure ……………. Bars

2.2.8.9 Internal protective finish:

Material : ……………….

Thickness : ……………..

3.2.8.10 External protective finish:

Material : ………………….

Thickness : …………………

2.2.8.11 Weight of the valve: …………………. Kg

2.2.8.12 Packing and Protection of valves in transit: …………..

2.2.8.13 Reference of the catalogues, technical literature and drawings provided with the Bid:

……………………………………………………………………………………

2.2.8.14 Port of shipment: .………………………

2.3.8.15 Time of delivery of valves at port of shipment: ……………..

2.2.8.16 Name and Address of supplier’s agent (if any) in Sri Lanka: ………………………

…………………………………………………………………………………………

2.2.8.17 Deviations from specifications (if any) :…………………………….

**2.3** **AIR VALVES**

2.3.0 Name of the Manufacturer : ………………………

2.3.1 Country of Manufacture : …………………………

2.3.2 Manufacturer’s Address: ……………………………………………………

………………………………………………………………………………………….

2.3.3 Date of Manufacture: ………………….

2.3.4 Is ISO 9001 :2015 Quality Management System Certificate provided to the factory / Factories : …………………………………….

2.3.5 Type of Valve (single orifice/double orifice): ………………………………….

2.3.6 For large orifice air valves;

|  |  |
| --- | --- |
| Orifice dia.  …………… mm | Minimum air outflow at 0.5 bar differential pressure ………………… m3 /min |
| Minimum air inflow at 0.2 bar differential pressure ………………… m3 /min |

2.3.7 For large orifice and Double orifice air valves; whether isolating valve has mitre

gearing for making it Tee key operated: ………………….

2.3.8 Make of material of Ball (Stainless Steel or Plastic): ………………………….

2.3.9 Flanges (if applicable)

Pressure rating : …………..

Standard :………………….

Dimensions (mm) :………..

Bolt circle dia. (mm): ………

2.3.10 Seat test pressure : …………………. bars

2.3.11 Body test pressure : ………………… bars

2.3.12 Internal protective finish: ………….

2.3.13 External protective finish:………….

2.3.14 Weight of the valve :…………………… kg

2.3.15 Packing and protection of valves in transit: ………………..

2.3.16 Reference of the catalogues, technical literature and drawings provided with the Bid:

………………………………………………………………………………………..

2.3.17 Port of shipment: …………………………………….

2.3.18 Time of delivery of valves at port of shipment: …………………………

2.3.19 Name and Address of supplier’s agent (if any) in Sri Lanka: ………………………...

…………………………………………………………………………………………

2.3.20 Deviations from specifications (if any):………………………….

**2.4 CHECK VALVES**

2.4.0 Name of the Manufacturer: ………………………

2.4.1 Country of Manufacture: ………………………….

2.4.2 Manufacturer’s Address: …………………………………………………

…………………………………………………………………………………….

2.4.3 Date of Manufacture: ………………………..

2.4.4 Standard to which valves conform: …………………………………………..

2.4.5 Is ISO 9001 :2015 Quality Management System provided to the factory/

factories: ………

2.4.6 2.4.6.1 Is product conformity certificate from relevant Standard Institution provided

to the Factory / factories :……………………

2.4.6.2 No of Shipments proposed by the Contractor: ………………………………

2.4.7 Is this Vertical Installation or Horizontal Installation: ……………………..

2.4.8 Is this non Slam: ………….

2.4.9 Is this spring loaded: …………..

2.4.10 Material

Valve body: ……………….

Hinge pin and bushes: …………..

Disc: ……………

Disc encapsulating material: …………..

2.4.11 End Flanges

Pressure rating:………….

Dimensions (mm):………

Bolt circle dia. (mm):……..

Standard :…………………..

3.4.12 Face to face dimensions of the valve (mm) :…………

3.4.13 Seat test pressure : …………………… bars

3.4.14 Body test pressure ……………. bars

3.4.15 Internal protective finish:………………

3.4.16 External protective finish:………………..

3.4.17 Weight of the valve: …………………. Kg

3.4.18 Packing and Protection of valves in transit:………………….

3.4.19 Reference of the catalogues, technical literature and drawings provided with the Bid:

……………………………………………………..

3.4.20 Port of shipment:…………………..

3.4.21 Time of delivery of valves at port of shipment:……………………….

3.4.22 Name and Address of supplier’s agent (if any) in Sri Lanka:………..

3.4.23 Deviations from specifications (if any):…………….

**2.5 PRESSURE REDUCING VALVES**

2.5.0 Name of the Manufacturer : ………………………

2.5.1 Country of Manufacture : ……………………………….

2.5.2 Manufacturer’s Address: ……………………………………………...

…………………………………………………………………………………….

2.5.3 Date of Manufacture:…………….

2.5.4 Is ISO 9001:2015 Quality Management System provided to the factory/

factories: ………...………………………………………….

2.5.5 2.5.5.1 Is product conformity certificate from relevant Standard Institution provided to the factory/ factories:……………………

2.5.5.2 No of Shipments proposed by the Contractor: ………………………………

2.5.6 Material

Main valve:……………..

Body:……………………

Internal valve:…………….

Indicator rod:……………..

Relay Valve

Body:…………………..

Spindle:…………………..

Diaphragm:………………….

Spring:……………………..

2.5.7 Length between flanges (mm):…………

2.5.8 End Flanges

Pressure rating:……………

Dimensions (mm):………..

Bolt circle dia. (mm):…………

Standard :………………………

2.5.9 Minimum running pressure difference: …………………… bars

* + 1. Minimum control pressure ……………. Bars
    2. Internal protective finish:………………..
    3. External protective finish:………………….
    4. Weight of the valve: …………………. kg

2.5.14 Packing and Protection of valves in transit:…………

2.5.15 Reference of the catalogues, technical literature and drawings provided with the Bid: …...……………………………………………………………………..

* + 1. Port of shipment:………………………..
    2. Time of delivery of valves at port of shipment:…………………..
    3. Name and Address of supplier’s agent (if any) in Sri Lanka:…………………………
    4. Deviations from specifications (if any):………………………………….
  1. **PRESSURE SUSTAINING/RELIEF VALVES**
  2. Name of the Manufacturer : ………………………
     1. Country of Manufacture :………………………………………………..
     2. Manufacturer’s Address:………………………………………………
     3. Date of Manufacture:………………………..
     4. Is ISO 9001 :2015 Quality Management System provided to the factory/ factories

……………………………………..

* + 1. 2.6.5.1 Is product conformity certificate from relevant Standard Institution provided to the factory/ factories:……………………

2.6.5.2 No of Shipments proposed by the Contractor : …………………………….

* + 1. Material

Main valve:…………..

Body:……………………

Internal valve:…………

Indicator rod:……………..

Relay Valve

Body:…………………..

Spindle:…………………..

Diaphragm:………………

Spring:…………………….

* + 1. Length between flanges (mm):…………
    2. End Flanges

Pressure rating:………………

Dimensions (mm):………………..

Bolt circle dia. (mm):…………….

Standard :……………………….

* + 1. Internal protective finish:………………
    2. External protective finish:………………..
    3. Weight of the valve: …………………. kg
    4. Packing and Protection of valves in transit:………………….
    5. Reference of the catalogues, technical literature and drawings provided with the Bid:

………………………………………………………………

* + 1. Port of shipment:…………………………
    2. Time of delivery of valves at port of shipment:………………………….
    3. Name and Address of supplier’s agent (if any) in Sri Lanka:…………………………
    4. Deviations from specifications (if any):………………..
  1. **FLOW CONTROL VALVES**
  2. Name of the Manufacturer : ………………………
     1. Country of Manufacture :……………………………
     2. Manufacturer’s Address:…………………….
     3. Date of Manufacture:…………………………

2.7.4 Is ISO 9001 :2015 Quality Management System provided to the factory/ factories: …………………………

* + 1. 2.7.5.1 Is Product Conformity Certificate from relevant Standard Institution provided

to the factory/ factories:……………………

2.7.5.2 No or Shipments proposed by the Contractor : …………………………….

* + 1. Material

Main valve:………………….

Body:………………………..

Internal valve:………………..

Indicator rod:………………….

Relay Valve

Body:…………………..

Spindle:………………..

Diaphragm:……………

Spring:…………………

* + 1. Length between flanges (mm):……………………..
    2. End Flanges

Pressure rating:………………

Dimensions (mm):……………

Bolt circle dia. (mm):……………

Standard :………………………

* + 1. Minimum flow :…………………….
    2. Constant flow:………………….
    3. Internal protective finish:…………….
    4. External protective finish:………………….
    5. Weight of the valve: …………………. kg
    6. Packing and Protection of valves in transit:………………………
    7. Reference of the catalogues, technical literature and drawings provided with the Bid:
    8. Port of shipment:…………………….
    9. Time of delivery of valves at port of shipment:…………………..
    10. Name and Address of supplier’s agent (if any) in Sri Lanka:………………….
    11. Deviations from specifications (if any):……………………………………………..

**2.8 ALTITUDE VALVES**

2.8.0 Name of the Manufacturer : ………………………

2.8.1 Country of Manufacture :…………………

2.8.2 Manufacturer’s Address:…………………………………………………

…………………………………………………………………………………………

2.8.3 Date of Manufacture:………………………..

2.8.4 Is ISO 9001 :2015 Quality Management System provided to the factory/

factories ……………………

2.8.5 2.8.5.1 Is Product Conformity Certificate from relevant Standard Institution provided

to the factory/ factories……………………

* + - 1. No of Shipments proposed by the Contractor : ………………………………

2.8.6 Material

Main valve:…………..

Body:……………………

Internal valve:…………….

Indicator rod:………………

Relay Valve

Body:……………..

Spindle:……………

Diaphragm:………….

Spring:………………..

* + 1. Length between flanges (mm):……………
    2. End Flanges

Pressure rating:……………….

Dimensions (mm):…………….

Bolt circle dia. (mm):…………

Standard :…………………………

* + 1. Minimum head required at valve inlet:…………………
    2. Internal protective finish:…………………
    3. External protective finish:………………….
    4. Weight of the valve: …………………. kg
    5. Packing and Protection of valves in transit:…………………….
    6. Reference of the catalogues, technical literature and drawings provided with the Bid:

…………………………………………………………..

* + 1. Port of shipment:…………………………
    2. Time of delivery of valves at port of shipment:…………………….
    3. Name and Address of supplier’s agent (if any) in Sri Lanka:………………………
    4. Deviations from specifications (if any):…………………………………

**2.9 BALL FLOAT VALVES**

2.9.0 Name of the Manufacturer : ………………………

2.9.1 Country of Manufacture :…………………………….

2.9.2 Manufacturer’s address : ………………………………………………

2.9.3 Date of Manufacture:……………………..

2.9.4 Is ISO 9001 :2015 Quality Management System provided to the factory/

factories ……………………….

2.9.5 2.9.5.1 Is product conformity certificate from relevant Standard Institution provided

to the factory/ factories……………………

* + - 1. No of Shipments proposed by the Contractor : ………………………………

2.9.6 Body test pressure:……………….

2.9.7 End Flanges

Pressure rating:…………………..

Dimensions (mm):………………..

Bolt circle dia. (mm):……………..

Standard:…………………………………

* + 1. Material

Valve Body:……………………

Float:………………………….

Lever and links:…………………..

* + 1. Body test pressure: ……………… bars
    2. Close assembly test pressure ………………… bars
    3. Weight of the valve: …………………. kg
    4. Packing and Protection of valves in transit:……………………………….
    5. Reference of the catalogues, technical literature and drawings provided with the Bid:

……………………………………………..

* + 1. Port of shipment:………………………………
    2. Time of delivery of valves at port of shipment:………………………….
    3. Name and Address of supplier’s agent (if any) in Sri Lanka:………………………..
    4. Deviations from specifications (if any):………………………………..
  1. **FLAP VALVES**
  2. Name of the Manufacturer : ………………………
     1. Country of Manufacture :……………………….
     2. Manufacturer’s Address:……………………………………………………

2.10.3 Date of Manufacture:…………………………

2.10.4 Is ISO 9001 :2015 Quality Management System provided to the factory/ factories ……………………

2.10.5 2.10.5.1 Is product conformity certificate from relevant Standard Institution provided to the factory/ factories……………………

* + - 1. No of Shipments proposed by the Contractor : …………………………

2.10.6 Material

Frame and door:…………………

Sealing:………………..

Hinge pin:…………….

Links:………………….

* + 1. Flanges

Pressure rating:………

Dimensions (mm):………….

Bolt circle dia. (mm):…………..

Standard :……………………

* + 1. Weight of the valve: …………………. kg
    2. Packing and Protection of valves in transit:………………
    3. Reference of the catalogues, technical literature and drawings provided with the

Bid:…………………………..

* + 1. Port of shipment:…………………………
    2. Time of delivery of valves at port of shipment:…………………….
    3. Name and Address of supplier’s agent (if any) in Sri Lanka:………………….
    4. Deviations from specifications (if any)…………………………..
  1. **FIRE HYDRANTS**
  2. Name of the Manufacturer : ………………………
     1. Country of Origin:…………………………
     2. Manufacturer’s Address:………………………………
     3. Is this Pillar type or Underground type: ……………
     4. Screw down type

3.11.5 Is ISO 9001:2015 Quality Management System provided to the factory/ factories: …………………………………….

* + 1. 2.11.6.1 Is product conformity certificate from relevant Standard Institution provided

to the factory/ factories…………………………….

2.11.6.2 No of Shipments proposed by the Contractor: …………………………

* + 1. Date of Manufacture:…………………
    2. Standard to which it conform:……………….
    3. Inlet Flanges

Pressure rating:……………

Dimensions (mm):……………

Bolt circle dia. (mm):……………….

Standard:……………………….

Standard of facing and drilling:…………………………..

* + 1. The direction of closing of the hydrant valve:……………..
    2. Body test pressure:……………. Bars
    3. Valve and seat test pressure : ……………… bars
    4. Internal protective finish:………………
    5. External protective finish:……………………
    6. Weight of the hydrant: ……………………… kg
    7. Packing and protection of hydrants in transit:………………
    8. Reference of the catalogues, technical literature and drawings provided with the Bid:.....................................................................................................................................
    9. Time of delivery of hydrants at port of shipment:……………………
    10. Name and address of supplier’s agent (if any) in Sri Lanka:…………………………
    11. Deviations from specifications (if any):………………………
  1. **Fire Hydrants - Dry Barrel Type**
  2. Name of the Manufacturer : ………………………
     1. Country of Manufacture :……………………
     2. Manufacturer’s Address:………………………………………………
     3. Date of Manufacture:……………………………….

2.12.4 Is ISO 9001 :2015 Quality Management System provided to the factory/ factories ………………………………………………………………………………

* + 1. 2.12.5.1 Is product conformity certificate from relevant Standard Institution provided to the factory/ factories……………………

2.12.5.2 No of Shipments proposed by the Contractor : …………………………

* + 1. Standard to which it conform:……………………….
    2. Burried length of hydrant: ……………….. m
    3. Number of outlet nozzles nominal diameter and standard:

No. of outlet nozzles:………………….

Nominal diameter (mm):……………………

Standard:……………………..

* + 1. Inlet Flange

Pressure rating:………………..

Dimensions (mm):……………

Bolt circle dia.(mm):………….

Standard:………………………

* + 1. Material, Hardness range and standard

Material Hardness range Standard

Gaskets: ……………….… ………………. …………….

Nuts and Bolts: …………….. ………………… …………..

* + 1. The direction of closing of the hydrant valve:………………………………….
    2. Colour of the finish paint above ground line:
    3. Weight of the hydrant: ……………………… kg
    4. Packing and protection of hydrants in transit:
    5. Reference of the catalogues, technical literature and drawings provided with the tender:
    6. Port of shipment:
    7. Time of delivery of hydrants at port of shipment:
    8. Name and address of supplier’s agent (if any) in Sri Lanka:
    9. Deviations from specifications (if any):

**3.0 JOINT PROTECTION MATERIAL**

1. Country of manufacture:

(1) Mastic Primer………………………………………………

(2) Mastic Paste……………………………………………………….

(3) Mastic Tape……………………………………………………….

1. Manufacturers’ name and Address:
2. Mastic Primer…………………………………………………………

……………………………………….

1. Mastic Paste……………………………………………………….

………………………………..

1. Mastic Tape…………………………………………………
   1. Volatile Organic Compound Content……………………………….
   2. Self-Supporting…………………………….
   3. Cracking…………………………..
   4. Moisture and state limit……………………………………..
   5. Resistivity to;
2. Mineral Acid………………………………
3. Alkalis……………………………..
4. Salts……………………………….
   1. Suitability Climate…………………………………………….
5. Internal protection : ………………………………………………………..
6. External protection ………………………………………………………..
7. Weight of the packs …………….. kgs ………………………………
8. Reference of the catalogues, technical literature and drawings provided with the Bid:
9. Port of shipment: ………………………………………..
10. Time of delivery of the materials at port of shipment: ……………………………………
11. Name and Address of Supplier’s accredited agent in Sri Lanka: ………………
12. Deviations from Specifications (if any):

**4. HDPE PIPES AND FITTINGS**

4.0 Name of the Manufacturer : (1) Pipes ……………………………………………………

(2) Fittings…………………………………………………

* 1. No of shipments proposed by the Contractor : …………………………………
  2. Country of Manufacture:

Pipes: ……………………….

Fittings: ………………………

* 1. Manufacturer’s Address and the intended Date of Manufacture:

**Address** **Intended Date of Manufacture**

Pipes: ………………….. ………………………………

Fittings: …………………. ………………………………

* 1. Colour of the product :

Pipes: ……………………….

Fittings: ………………………

* 1. Port of Shipment :
  2. 4.6.1 Standards to which pipes and fittings conform:

Pipes: ……………………….

Fittings: ………………………

4.6.2 No of Shipments proposed by the Contractor : ……………………………

* 1. Is Certificate of product conformity from a relevant standards Institution provided :

Pipes ………………….. (attach a copy)

Fittings ………………. (attach a copy)

* 1. Nominal sizes and pressure ratings of Pipes & Fittings:

**Nominal Dia.** **Pressure Rating SDR**

Pipes: ……………. ………………. ………

Fittings: …………… ……………….. ………

* 1. Make of compression fittings, Gaskets/ rubber rings, inserts, clamps

**Make/material** **Intended Date of Manufacture**

**Body of Compression fittings …………………. ……………………..**

**Inserts ………………….. ……………………..**

**Rubber ring/Gasket ………………….. ……………………..**

* 1. Characteristics of PE compound as granules

1. Compound Density : …………………
2. Carbon black content

(black compound % by mass) …………

1. Carbon black dispersion

(black compound specify the grade range) ……………

* 1. Mechanical characteristics

1. Hydrostatic strength at 200C
2. For pipes …………………
3. For fittings ……………….
4. Hydrostatic strength at 800C
5. For pipes …………………
6. For fittings ……………….
   1. Packing and protection in transit :

Pipes ……………. (specify in detail)

Fittings ……………… (specify in detail)

* 1. Time of delivery:

|  |  |  |
| --- | --- | --- |
|  | **FOB** | **At Site** |
| Pipes |  |  |
| Fittings |  |  |

* 1. Reference of the catalogues, technical literature, drawing provided with the tender:

Pipes : ……………………….

Fittings : ……………………

* 1. Name and address of the Supplier’s agent in Sri Lanka: …………………… ………………………………………………………………………………………………………………………….………………………………………………………………………………………………………….
  2. Whether ISO 9001 : 2015 quality assurance certificate is available for

manufacturing factory:

(i) (a) For Pipes ……………………………(i) (b) If yes, attach a copy …………

(ii) (a) For Fittings …………………………………(ii) (b) If yes, attach a copy

**8. DEVIATIONS FROM SPECIFICATIONS**

**DEVIATIONS FROM SPECIFICATIONS**

**Preamble**

The Bidder is required to list any deviations of materials workmanship etc. from the Specifications including such information as has already been given elsewhere in the Tender Documents. The information shall be in sufficient detail to enable the Engineer to make a realistic assessment of the effect of such deviations on the performance or life of the materials to be supplied and also such deviation if any shall be subject to Clause 28.2 of Instructions to Bidders.

The list shall also include deviations from the Specifications relating to the mode of operation and/or control of any item of equipment, and any deviations from the specified design requirements for plant components.

**Deviations**

Note:

1. Bidder shall submit a detailed technical comparison (Specified Vs Supplied) if their products deviate from performance criteria manifested in the Specifications.
2. Additional sheets should be attached as necessary.

**9. SCHEDULE OF DAYWORKS**

* **PREAMBLE NOTES ON DAYWORKS SCHEDULES**
* **SCHEDULE OF DAYWORKS RATES FOR LABOUR**
* **SCHEDULE OF DAYWORKS RATES FOR MATERIALS**
* **SCHEDULE OF DAYWORKS RATES FOR CONSTRUCTIONAL PLANT**

# SCHEDULES OF DAYWORKS

**PREAMBLE NOTES ON DAYWORKS SCHEDULES**

**General**

Reference should be made to Clause 13.5 of the Conditions of Contract. Work shall not be executed on Dayworks basis except by written order of the Engineer. The rates specify shall apply to any quantities of Dayworks ordered by the Engineer. Dayworks rates are exclusive of VAT.

The Dayworks rates for labour, material and Contractor’s Equipment do not include percentages to cover Contractor’s overhead and profit. Contractor may add maximum percentage over and above the Dayworks rate to cover overhead and profit as specified in each section below.

**Labour for Dayworks**

Only the time of different classes of labour directly doing work ordered by the Engineer and for which they are competent to perform will be measured. The time of gangers (charge hands) actually doing the work with the gangs will also be measured but not the time of foreman or other supervisory personnel.

The Dayworks rates for labour shall cover all direct costs to the Contractor, including the amounts of wages paid to such labour, transporting time, subsistence allowances and any sums paid to or in on behalf of such labour for social benefits in accordance with Sri Lankan Law.

The overhead and profit component, maximum of 15% of day work rates to cover the Contractor’s profit, overhead, superintendence, liabilities and insurance and allowances to labour, time keeping, clerical and office work, the use of consumable stores, utilities, the cost of using, repairing and maintaining the tools necessary to each class of workman.

**Material for Dayworks**

The basic rates for material is based on the invoice price, freight, insurance, handling expenses, damages, losses, wastages etc. and shall provide and delivery to site as directed by the Engineer. The Contractor shall be entitled to payment in respect of materials used for Dayworks at the maximum of 6% of Dayworks to cover the overhead and profit.

**Contractor’s Equipment for Dayworks**

The Contractor shall be entitled to payment in respect of Contractor’s Equipment employed on Dayworks. The rates include due and complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants and other consumables. Contractor may add a maximum of 10% overhead and profit component to the Dayworks rates to cover his profit, overhead, superintendence, administrative costs related to use such Equipment, liabilities, time keeping and any other allied works.

In calculating the payment due to the Contractor for Contractor’s Equipment employed on Dayworks, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the site where the Contractor’s Equipment was located when ordered by the Engineer to be employed on Dayworks and the time of return journey there to shall be considered for payment.

**SCHEDULE OF DAYWORKS RATES**

**FOR LABOUR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM NO** | **DESCRIPTION** | | **UNIT** | **RATE  Rs.** |
| 1 | Unskilled Labour |  | day | 1600.00 |
| 2 | Helper |  | day | 1650.00 |
| 3 | Pipe Layer |  | day | 2190.00 |
| 4 | Fitter |  | day | 2190.00 |
| 5 | Mason |  | day | 2000.00 |
| 6 | Carpenter and Joiner |  | day | 2120.00 |
| 7 | Steel Work Erector |  | day | 2130.00 |
| 8 | Tool Operator |  | day | 1760.00 |
| 9 | Tiller |  | day | 2190.00 |
| 10 | Plumber |  | day | 2130.00 |
| 11 | Welder |  | day | 2070.00 |
| 12 | Painter |  | day | 2130.00 |
| 13 | Electrician |  | day | 2200.00 |
| 14 | Mechanic |  | day | 2200.00 |
| 15 | Bar Bender |  | day | 2140.00 |
| 16 | Operator (Heavy Machine) |  | day | 2260.00 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **Note :** | VAT not included |  |  |  |
|  | Contractor's O/H & P not included. |  |  |  |
| **Source:** | Market prices June 2020 |  |  |  |
|  |  |  |  |  |

**SCHEDULE OF DAYWORKS RATES**

**FOR MATERIALS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item**  **No.** | **Description** | **Unit** | **Basic rate**  **(Rs.)** |
| 1. | Cement, ordinary Portland or equivalent in bags | kg | 21.50 |
| 2. | Tor Steel reinforcing bar | kg | 146.00 |
| 3. | Mild steel | kg | 146.00 |
| 4. | Fine aggregate as specified in Clause 1.6.1 of the  ICTAD specification (SCA/4/1) for Building Works –  Volume 1 |  |  |
| 4.1 | Fine Sand | cu | 18,426.00 |
| 4.2 | Coarse Sand | cu | 17,853.00 |
| 4.3 | Sea sand (wash) | cu | 11,344.00 |
| 6. | Quarry Dust | cu | 9,660.00 |
| 5. | Coarse aggregate for concrete as specified in Clause 302 of the General Specification for Civil Engineering construction of size; |  |  |
| 5.1 | ½” (Chips) | cu | 8,085.00 |
| 5.2 | ¾” | cu | 8,460.00 |
| 5.3 | 1” | cu | 8,366.00 |
| 5.4 | 1½” | cu | 8,336.00 |
| 5.5 | 2” | cu | 8,336.00 |
| 6. | Shuttering planks( ¾”) | m2 | 580.00 |
| 7. | Timber for Members |  |  |
|  | **Jack** |  |  |
| 7.1 | Timber 4”x3” – 6 ½ – 7 ft | m | 1,599.00 |
| 7.2 | Timber planks 1 1/8” | m2 | 5,799.00 |
|  |  |  |  |
|  | **Kempus/ Tulang** |  |  |
| 7.3 | Class I Timber 2”x1” | m | 102.00 |
| 7.4 | Class I Timber 2”x2” | m | 204.00 |
| 7.5 | Class I Timber 4”x2” | m | 568.00 |
| 7.6 | Class I Timber 4”x3” | m | 1,017.00 |
| 7.7 | Class I Timber 5”x2” | m | 930.00 |
| 7.8 | Class I Timber 3”x5” | m | 1,041.00 |
| 7.9 | Class I Timber 2”x6” | m | 1,017.00 |
| 7.10 | Class I Timber 3”x6” | m | 1,236.00 |
|  |  |  |  |
|  | **Other** |  |  |
| 7.11 | Valance Board 9”x 1” (Ginisapu) | m | 580.00 |
| 7.12 | Ceiling Planks ¾” (Lunimudella) | m2 | 1,249.00 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Item**  **No.** | **Description** | **Unit** | **Basic rate**  **(Rs.)** |
| 8. | Bricks Standard size | nr. | 16.00 |
| 9. | **Rubble** |  |  |
| 9.1 | 6” x 9” | cu | 5,697.00 |
| 9.2 | 6” x 4” | cu | 5,697.00 |
|  |  |  |  |

**Note :** 1. Contractor’s O/H & P not included

2. VAT not included

**Source :-**

1. Market prices June 2020.

**RATES FOR DAYWORKS SCHEDULES**

**CONSTRUCTIONAL EQUIPMENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM NO** | **DESCRIPTION** | **CAPACITY** | **UNIT** | **RATE (Rs.)** |
|  | **Air Handling Equipment** |  |  |  |
| 1 | Air Compressor (including tools breakers etc:)\* | 1000 CFM | hr | 3240.00 |
| 2 | Air Compressor (including tools breakers etc:)\* | 500 CFM | hr | 2320.00 |
| 3 | Air Compressor (including tools breakers etc:)\* | 300 CFM | hr | 1390.00 |
| 4 | Air Compressor (including tools breakers etc:)\* | 200 CFM | hr | 1300.00 |
| 5 | Air Compressor \* |  | day | 200.00 |
| 6 | Blower |  | day | 460.00 |
| 7 | Vacum Cleaner |  | day | 1260.00 |
|  |  |  |  |  |
|  | **Breaking / Cutting Equipment** |  |  |  |
| 8 | Angle Grinder (06'',04") – Electrical |  | day | 210.00 |
| 9 | Angle Grinder (7") - Electrical |  | day | 510.00 |
| 10 | Asphalt cutter \* |  | hr | 1160.00 |
| 11 | Breaker Machine (70kg) - Electric |  | day | 3020.00 |
| 12 | Breaker Machine - Air (not included compressor) |  | day | 4530.00 |
| 13 | Grinder (large) - Electrical |  | day | 3020.00 |
| 14 | Grinder (medium) - Electrical |  | day | 4530.00 |
| 15 | Tile cutter (2'-0'' length) |  | day | 510.00 |
| 16 | Tile cutter (up to 2'-0'' length) |  | day | 360.00 |
|  |  |  |  |  |
|  | **Compacting Equipment** |  |  |  |
| 17 | Hand Rammers \* | 60kg | day | 3820.00 |
| 18 | Plate Compactor Mechanical \* | 90kg | day | 3520.00 |
| 19 | Pneumatic Roller \* | 8 - 10 t | hr | 3620.00 |
| 20 | Pneumatic Roller \* | 10 - 12 t | hr | 4280.00 |
| 21 | Soil compactor -Vibrating Roller \*(Min.4hrs/day) | 01 t | hr | 1260.00 |
| 22 | Soil compactor -Vibrating Roller \*(Min.4hrs/day) | 05 t | hr | 2120.00 |
| 23 | Soil compactor -Vibrating Roller \*(Min.4hrs/day) | 07 t | hr | 2720.00 |
| 24 | Soil compactor -Vibrating Roller \*(Min.4hrs/day) | 10 t | hr | 2940.00 |
| 25 | Soil compactor -Vibrating Roller \*(Min.4hrs/day) | 20 t | hr | 3890.00 |
| 26 | Soil compactor -Vibrating Roller \*(Min.4hrs/day) | 26 t | hr | 4350.00 |
|  |  |  |  |  |
|  | **Concrete Work Related** |  |  |  |
| 27 | Concrete mixer complete with scales etc. \* | 0.25m3 | hr | 500.00 |
| 28 | Concrete mixer complete with scales etc. \* | 0.5m3 | hr | 700.00 |
| 29 | Porker vibrator (Electric) | 25mm dia. | day | 1360.00 |
| 30 | Porker vibrator (Electric) | 32mm dia. | day | 1510.00 |
| 31 | Porker vibrator (with engine)\* | 25mm dia. | day | 3020.00 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM NO** | **DESCRIPTION** | **CAPACITY** | **UNIT** | **RATE (Rs.)** |
|  | **Concrete Work Related** |  |  |  |
| 32 | Porker vibrator (with engine)\* | 32mm dia. | day | 3220.00 |
| 33 | Porker vibrator (with engine)\* | 38mm dia. | day | 3520.00 |
|  |  |  |  |  |
|  | **For Supply of Ready Mix Concrete (Colombo Area)** |  |  |  |
| 34 | Pump Cars -( Minimum 30 m3) - 21m length of pump car \* |  | m3 | 780.00 |
| 35 | Pump Cars -( Minimum 40 m3) - 32 m length of pump car\* |  | m3 | 870.00 |
| 36 | Pump Cars -( Minimum 50 m3) - 37 m length of pump car\* |  | m3 | 970.00 |
|  |  |  |  |  |
|  | **Earth Work Related Equipment** |  |  |  |
| 37 | Backhoe loader \* | 0.10m3 | hr | 1740.00 |
| 38 | Backhoe loader \* | 0.25m3 | hr | 2200.00 |
| 39 | Bob Cat \* (Min.4hrs/day) |  | day | 2220.00 |
| 40 | Bulldozer (Crawler Tractor) \* (Min.4hrs/day) | 85 hp | hr | 3380.00 |
| 41 | Bulldozer (Crawler Tractor) \* (Min.4hrs/day) | 120 hp | hr | 4150.00 |
| 42 | Excavator (Long Arm)\* | 0.4m3 | hr | 3350.00 |
| 43 | Excavator (Long Arm)\* | 0.5m3 | hr | 4560.00 |
| 44 | Excavator (Long Arm)\* | 0.9m3 | hr | 7580.00 |
| 45 | Excavator \* | 0.18m3 | hr | 1720.00 |
| 46 | Excavator \* | 0.35m3 | hr | 2210.00 |
| 47 | Excavator \* | 0.45m3 | hr | 2400.00 |
| 48 | Excavator \* | 0.7m3 | hr | 3090.00 |
| 49 | Excavator \* | 0.9m3 | hr | 3470.00 |
| 50 | Excavator with backhoe \* | 130hp | hr | 4210.00 |
| 51 | Motar Grader \* | 3.1 m | hr | 3370.00 |
| 52 | Motor Grader \* | 4.2 m | hr | 5000.00 |
| 53 | Wheel Loader \* | 0.1m3 | hr | 1690.00 |
| 54 | Wheel Loader \* | 1.4m3 | hr | 1970.00 |
| 55 | Wheel Loader \* | 2.0m3 | hr | 2470.00 |
|  |  |  |  |  |
|  | **Hoisting Equipment** |  |  |  |
| 56 | Chain Block 5T |  | day | 510.00 |
| 57 | Hoist Machine (300/500kg)\* |  | km | 7540.00 |
| 58 | Crane Truck (80 km/day) \* crane charge Rs.2500/hrs | 5t | km | 200.00 |
| 59 | Crane Truck (80 km/day) \* crane charge Rs.2500/hrs | 17t | km | 250.00 |
| 60 | Crane Truck (80 km/day) \* crane charge Rs.2500/hrs | 20t | km | 290.00 |
| 61 | Crawler Crane \* | 35 t | hr | 4230.00 |
| 62 | Crawler Crane \* | 50 t | hr | 5630.00 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM NO** | **DESCRIPTION** | **CAPACITY** | **UNIT** | **RATE (Rs.)** |
|  | **Hoisting Equipment** |  |  |  |
| 63 | Fork lift \* (Min.4hrs/day) | 3 t | hr | 1460.00 |
| 64 | Fork lift \* (Min.4hrs/day) | 5 t | hr | 1940.00 |
| 65 | Hydraulic Crane \* | 20 t | hr | 7140.00 |
| 66 | Hydraulic Crane \* | 15t | hr | 5530.00 |
| 67 | Tower crane \* (without mobilization & demobilization) | 10 t | hr | 3350.00 |
| 68 | Tower crane \*(without mobilization & demobilization) | 12 t | hr | 4680.00 |
|  |  |  |  |  |
|  | **Miscellaneous Equipment** |  |  |  |
|  |  |  |  |  |
| 69 | Welding Generator | 16KVA | day | 640.00 |
| 70 | Welding Plant (3 phase) | 3-Phase 400A | day | 510.00 |
| 71 | Floor Polisher |  | day | 1210.00 |
| 72 | Jig Saw |  | day | 360.00 |
|  |  |  |  |  |
|  | **Power Generating Equipment** |  |  |  |
|  |  |  |  |  |
| 73 | Generating set (with fuel ) | 25kVA | hr | 2010.00 |
| 74 | Generating set (with fuel ) | 50kVA | hr | 2520.00 |
| 75 | Generating set (with fuel ) | 45kVA | hr | 2770.00 |
| 76 | Generating set (with fuel ) | 125kVA | hr | 4630.00 |
|  |  |  |  |  |
|  | **Pumping Equipment** |  |  |  |
| 77 | Pressure Pump (Electric domestic type-with operator) |  | day | 1090.00 |
| 78 | Sludge pump 4'' dia. (with fuel & without operator) |  | hr | 1000.00 |
| 79 | Water Pump 2" dia.(Electrical - without operator) |  | day | 1010.00 |
| 80 | Water Pump 2" dia.(with fuel & without operator) |  | hr | 420.00 |
| 81 | Water Pump 4" dia. (with fuel & without operator) |  | hr | 1050.00 |
|  |  |  |  |  |
|  | **Special Equipment** |  |  |  |
| 82 | Butt fusion Machine (Semi/Auto) with all necessary equipment - Electrical \* |  | month | 23520.00 |
|  |  |  |  |  |
|  | **Transportation / Moving** |  |  |  |
|  |  |  |  |  |
| 83 | Baby Dumper \* |  | day | 4560.00 |
| 84 | Container-Transport Trucks - 20 ft (up to 32kmfrom Colombo Port)  Additional transport (for night park add. Rs. 5000.00/day) |  | sum  km | 18090.00  250.00 |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM NO** | **DESCRIPTION** | **CAPACITY** | **UNIT** | **RATE (Rs.)** |
| 85 | Container-Transport Trucks - 30 ft ( up to 32km from Colombo Port)  Additional transport (for night park add. Rs. 5000.00/day) |  | sum  km | 21110.00  280.00 |
| 86 | Container-Transport Trucks - 40 ft ( up to 32km from Colombo Port)  Additional transport (for night park add. Rs. 5000.00/day) |  |  | 25130.00  320.00 |
| 87 | Crew cab (with driver & fuel) \* |  | km | 80.00 |
| 88 | Double cab (with driver & fuel) \* |  | km | 70.00 |
| 89 | Lorry \* (80 km/day) | 12t | km | 250.00 |
| 90 | Low loader truck \* | 30 - 40 km | km | 320.00 |
| 91 | Ordinary truck (100 km/day) \* | 6 t | day | 8060.00 |
| 92 | Ordinary truck (100 km/day) \* | 12 t | day | 10640.00 |
| 93 | Tractor with Tailor | 0.75cu | day | 5570.00 |
| 94 | Truck with Boom \* | 3 t | day | 11580.00 |
| 95 | Truck with Boom \* | 3.5 t | day | 12580.00 |
| 96 | Truck with Boom \* | 4 t | day | 15650.00 |
| 97 | Truck with tipper \* | 10t/5cu | km | 210.00 |
| 98 | Van (15 Sheet) or similar utility Vehicle \* |  | km | 70.00 |
| 99 | Water Bowser (80 km/day) \* | 7000lts. | km | 170.00 |
|  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Note :** | 1. VAT not included | |
|  | 2. \* Cost of Operator / Driver and fuel (if applicable) are included in rates | |
|  | 3. Contractors O/H& P not included. | |
| **Source:** | Market prices May 2020 |

**10. LIST OF DRAWINGS**

**LIST OF DRAWINGS**

| **Drawing No.** | **Description** |
| --- | --- |
| WT500/LD/01 | List of Drawings – Sheet 01 |
| WT500/LD/02 | List of Drawings – Sheet 02 |
| **Culvert Crossings** | |
| WT501/CC/01 | Type –A1a & A1b for uPVC Main |
| WT501/CC/02 | Type – A2a & A2b for DI Main |
| WT501/CC/03 | Type – A3a & A3b for PE Main |
| WT501/CC/04 | Type –B1 for uPVC Main |
| WT501/CC/05 | Type –B2 for DI Main |
| WT501/CC/06 | Type –B3 for PE Main |
| WT501/CC/07 | Type –B4 for uPVC Main |
| WT501/CC/08 | Type –B5 for DI Main |
| WT501/CC/09 | Type –B6 for PE Main |
| WT501/CC/10 | Type –D1 for uPVC Main |
| WT501/CC/11 | Type –D2 for DI Main |
| WT501/CC/12 | Type –D3 for PE Main |
| WT501/CC/13 | Type –D4 for DI Restrained Pipes |
| WT501/CC/14 | Type –E1 for uPVC Main |
| WT501/CC/15 | Type –E2 for DI Main |
| WT501/CC/16 | Type –E3 for PE Main |
| WT501/CC/17 | Type –E1A for uPVC Main |
| WT501/CC/18 | Type –E2A for DI Main |
| WT501/CC/19 | Type –E3A for PE Main |
| WT501/CC/20 | Column detail for culvert crossing type E, column type- A 80dia to 150 dia. |
| WT501/CC/21 | Column detail for culvert crossing type E, column type- B 200dia to 250 dia. |
| WT501/CC/22 | Column detail for culvert crossing type E, column type- C 350dia to 450 dia. |
| WT501/CC/23 | Column detail for culvert crossing type E, column type- D 500dia to 450 dia. |
| WT501/CC/24 | Column detail for culvert crossing type E, column type- E 800dia to 900 dia. |
| **Concrete Trust Blocks** | |
| WT502/TB/01 | Type – A&B for 80 & 100dia DI/90 & 110mm dia. uPVC End Caps, Bends & Tees |
| WT502/TB/02 | Type – A&B for 150 & 200dia DI/160 & 225mm dia. uPVC End Caps, Bends & Tees |
| WT502/TB/03 | Type – A&B for 250 & 300dia DI/280 & 315mm dia. uPVC End Caps, Bends & Tees |
| WT502/TB/04 | Type – A&B for 350 & 400mm dia. DI End Caps, Bends & Tees |
| WT502/TB/05 | Type – A&B for 450 & 500mm dia. DI End Caps, Bends & Tees |
| WT502/TB/06 | Type – A&B for 600mm dia. DI End Caps, Bends & Tees |
| WT502/TB/07 | Type – A&B for 700mm dia. DI End Caps, Bends & Tees |
| WT502/TB/08 | For uPVC & DI Tapers |
| WT502/TB/09 | Type – A&B for 90 & 110mm dia. PE End Caps, Bends & Tees |
| WT502/TB/10 | Type – A&B for 160 & 225mm dia. PE End Caps, Bends & Tees |
| WT502/TB/11 | Type – A&B for 250, 280 & 315mm dia. PE End Caps, Bends & Tees |
| WT502/TB/12 | Type – A&B for 355 & 400mm dia. PE End Caps, Bends & Tees |
| WT502/TB/13 | Type – A&B for 450 & 500mm dia. PE End Caps, Bends & Tees |
| WT502/TB/14 | Type – A&B for 560mm dia. PE End Caps, Bends & Tees |
| WT502/TB/15 | Type – A&B for 630mm dia. PE End Caps, Bends & Tees |
| WT502/TB/16 | For PE Tapers |
| **Bedding Types & Backfilling** | |
| WT503/BT/01 | Bedding, Haunching, Surrounding and Backfilling for DI, uPVC and PE Pipes |
| WT503/BT/02 | Temporary and Permanent Road Reinstatement for DI, uPVC and PE Pipes |
| **Marker Post** | |
| WT504/MP/01 | Marker Post |
| **Air Valve** | |
| **Drawing No.** | **Description** |
| WT505/AV/01 | Type – A1 Single (Small) Orifice for DI/uPVC Main 80 to 200mm dia. DI/63 to 225mm dia. uPVC |
| WT505/AV/02 | Type – A2 Single (Large) Orifice for DI/uPVC Main 150 to 300mm dia. DI/160 to 225mm dia. uPVC |
| WT505/AV/03 | Type – A3 Single (Large)/Double Orifice for DI Main 350 to 500mm dia. |
| WT505/AV/04 | Type – A4 Double Orifice for DI Main 600 to 1200mm dia. |
| WT505/AV/05 | Type – A5 Single (Small) Orifice for upto 225mm dia. PE Main |
| WT505/AV/06 | Type – A6 Single (Large) Orifice for 160 to 315mm dia. PE Main |
| WT505/AV/07 | Type – A7 Single (Large) Double Orifice for 355 to 500mm dia. PE Main |
| WT505/AV/08 | Type – A8 Double Orifice for 560 to 630mm dia. PE Main |
| WT505/AV/09 | Type – B1 Single (Small) Orifice (Precast Chamber) for DI/uPVC Main 80 to 200mm dia. DI/ 63mm to 225mm dia. uPVC |
| WT505/AV/10 | Type – B2 Single (Large) Double Orifice (Pre Cast Chamber) for DI Main 150mm to 1200mm dia. |
| WT505/AV/11 | Type – B3 Single (Small) Orifice (Precast Chamber) for upto 315mm dia. PE Main |
| WT505/AV/12 | Type – B4 Single (Large) Double Orifice (Precast Chamber) for 160 to 630mm dia. PE Main |
| WT505/AV/13 | Type – C1 Single (Large)/Double Orifice for DI/uPVC Main 150 to 1200 dia. DI/160 & 225mm dia. uPVC |
| WT505/AV/14 | Type – C2 Single (Large)/Double Orifice for 160mm dia. to 630mm dia. PE Main |
| WT505/AV/15 | Type – D1, D2, D3 Single (Small/Large) Double Orifice for DI Main 150mm dia. to 1200mm dia. |
| **Washout Valves** | |
| WT506/WV/01 | Type – A1 for uPVC Main upto 225mm dia. |
| WT506/WV/02 | Type – A2 for DI Main 80mm dia. & 150mm dia. to 250mm dia. |
| WT506/WV/03 | Type – A3 for DI Main 300mm dia. to 600mm dia. |
| WT506/WV/04 | Type – A4 for DI Main 700 to1200mm dia. |
| WT506/WV/05 | Type – A5 for PE Main 90mm dia. & 160mm dia. to 280mm |
| WT506/WV/06 | Type – A6 for PE Main 315mm dia. to 630mm dia. |
| WT506/WV/07 | Type – A7 for 100mm dia. DI Main/110mm dia. PE Main |
| WT506/WV/08 | Type – B1 for uPVC Main up to 225mm dia. |
| WT506/WV/09 | Type – B2 for DI Main 80mm dia. to 150mm to 250mm dia. |
| WT506/WV/10 | Type – B3 for DI Main 400 to 1200mm dia. |
| WT506/WV/11 | Type – B4 for PE Main 90mm dia. & 160mm dia. to 355mm dia. |
| WT506/WV/12 | Type – B5 for PE Main 400 to 630mm dia. |
| WT506/WV/13 | Type – B6 for 100mm dia. DI Main/110mm dia. PE Main |
| WT506/WV/14 | Type – C1 for DI Main 80mm dia. & 150mm dia. to 450mm dia. |
| WT506/WV/15 | Type – C2 for DI Main 500 to 1200mm dia. |
| WT506/WV/16 | Type – C3 for uPVC Main up to 225mm dia. |
| WT506/WV/17 | Type – C4 for PE Main 90mm dia. & 160mm dia. to 450mm dia. |
| WT506/WV/18 | Type – C5 for PE Main 500 to 630mm dia. |
| WT506/WV/19 | Type – C6 for 100mm dia. DI Main/110mm dia. PE Main |
| **Inline Sluice /Butterfly Valves** | |
| WT507/SV/01 | Type – A1 & B1 for DI/uPVC Main upto 350dia. DI/225mm dia. uPVC |
| WT507/SV/02 | Type – B2 for DI Main 400 to 1200mm dia. |
| WT507/SV/03 | Type – A2 & B3 for PE Main upto 355mm dia. |
| WT507/SV/04 | Type – B4 for PE Main 400 to 630mm dia. |
| **Fire Hydrant** | |
| WT508/FH/01 | Type – A1 for DI/uPVC Main 150 to 1200mm dia. DI/160 & 225mm dia. uPVC |
| WT508/FH/02 | Type – A2 for DI/uPVC Main 150 to 1200mm dia. DI/160 & 225mm dia. uPVC |
| WT508/FH/03 | Type – A3 for PE Main up to 630mm dia. |
| WT508/FH/04 | Type – A4 for PE Main up to 630mm dia. |
| **Railway Crossing** | |
| WT509/RC/01 | Railway Crossing for DI/uPVC Mains |
| WT509/RC/02 | Railway Crossing for PE Mains up to 630 dia. |
| **Service Connection** | |
| WT510/SC/01 | Service connection –  20mm dia. & 25mm dia. uPVC or other Main line & PE Main line |
| **Pressure Reducing Valve** | |
| WT511/PRV/01 | Pressure reducing valve detail for uPVC |
| WT511/PRV/02 | Pressure reducing valve detail for DI |
| WT511/PRV/03 | Pressure reducing valve detail for HDPE |
| **Other Drawings** | |
| …………………. | ……………………. |
| ………………… | ……………………. |

**11. BILLS OF QUANTITIES**

* **PREAMBLE NOTES ON BILLS OF QUANTITIES**
* **BILLS OF QUANTITIES**
* **SUMMARY OF BILLS**

**PREAMBLE NOTES FOR PIPE LAYING**

**(Rate Contracts)**

* **Preamble Notes for Civil Engineering Works (Based on CESMM3).**
* **Preamble Notes for Building Works (based on SLS 573).**
* **Preamble Notes for Supply and Delivery of DI/HDPE Pipes & Fittings, Specials, Accessories, DI Valves and DI Manhole Covers.**

## General Notes

1. In the Bill of Quantities, the item descriptions identify the Work that has to be carried out, but in order to ascertain the exact nature and extent of the Work to be performed, the bidder shall read the General Conditions, Contract data, Specifications, Type Drawings, Preamble notes and any other relevant documents as specified and as included in the document and also shall be read in conjunction with the heading and item description as described in the BOQ.
2. The Works as executed shall be measured for payment in accordance with the method adopted in the “Civil Engineering Standard Method of Measurement - 3rd Edition (CESMM3)” published by the Institution of Civil Engineers, UK under the item as therein set forth. The Rates included for the complete execution of the Works as depicted in the Type Drawings and as specified in Technical Specifications and other relevant documents included in the contract document.
3. The measurement of works which are not covered by the CESMM3 or any deviation from CESMM3 shall be measured as specified in this preamble.
4. The objective of Preamble notes is to set forth the procedure according to which the BOQ has been prepared and priced.
5. If any discrepancy is found with the CESMM3 and this preamble, CESMM3 will be superseded by this Preamble.
6. If any discrepancy is found between code of CESMM3, preamble, an item description, the item description shall prevail.
7. This preamble bounded with the Conditions of Contract as per the ICTAD/CIDA Standard Bidding Document for Procurement of Works (ICTAD/SBD/02) as defined in the bidding document.
8. Add to the end of Clause 1.15 of Section 1 of CESMM3, “or equivalent Sri Lanka Standard (SLS)”.
9. ICE Conditions of Contract in Clauses of CESMM3 shall be replaced with the relevant Clauses of Conditions of Contract referred to in this Contract document.
10. Measurement unit of composite items shall be either “nr” (“number”) or “sum” as specified in the BOQ and it cover all costs incurred by the Contractor to complete the Works as shown in the drawings and as specified in the specifications.
11. The Quantities stated in the Bill of Quantities of the document are estimated quantities. However, the Rates given with the document shall not vary depending on the actual quantities.
12. The quantities have been computed net using dimensions from the drawings as per Clause 5.18 of CESMM3 unless directed otherwise by the Contract.
13. In addition to the abbreviations specified in Clause 5.19 of CESMM3 following abbreviations also shall be applicable.

Provisional Sum - p. sum

Day - day

Month - month

1. General Contingency/ General Contingency Allowance specified in the Clause 5.25 of CESMM3 shall mean the contingency amount specified in the Grand Summary of Bill of Quantities.
2. Conditions referred in the Section 7 of CESMM3 shall be the Conditions of Contract.

## Part II

###### CLASS A - GENERAL ITEMS

1. Any items of works or services complimentary to the Works which are not specifically provided in Class A of BOQ or Provisional Sums shall be included in the Rates.
2. Rates and prices entered in the BOQ under Class I, J, K, L, P and Q included dewatering activities required to complete the work. Cost incurred for dewatering shall not be paid separately under Class A.
3. Code A 110 of CESMM3 shall mean Performance Security in the form of demand guarantee. Contractor shall obtain the Performance Security at his own cost and the cost will be reimbursed as per the item A.1 above.
4. Insurance under code A 120 included the cost of provision of insurance for Works, Plant, Materials, Employer’s staff and any other insurance cover specified in the Contract except third party insurance.
5. Third Party insurance coverage shall compensate the loss or damages of any affected third parties and the Contractor shall relieve the Employer from any claims what so ever arising out of such events.
6. Rates and prices for surveying work items given in BOQ includes the relevant all works to complete that work as specified in the bidding document.

### CLASS B - GROUND INVESTIGATION

1. Rates and prices entered in the BOQ includes all descriptive features come under trial pits and trenches of Class B activities required to complete the work. Cost incurred for trial pits and trenches of Class B work shall not be paid separately under this Class.

### CLASS D – DEMOLITION AND SITE CLEARANCE

1. Rates and prices entered in the BOQ included all descriptive features come under general clearance, removal of trees and stumps of Class D. Cost incurred for general clearance, removal of trees and stumps will not be paid separately under this Class.

Revised on 12-07-2021

### CLASS I – PIPEWORK

1. Rates and prices entered in the BOQ excludes supply of pipes, flange protection material and warning tapes.
2. Rates and prices for pipe laying excludes for the items given below and considered separately under provisional sums.
3. Pipes on support.
4. Trenchless pipe laying.
5. Pipe laying along marshy and paddy areas.
6. Pressure class for both HDPE and uPVC pipes up to the diameter of 225mm not considered separately for the Rates in BOQ.
7. Rates and prices entered in the BOQ includes all descriptive features come under trial pits and trenches of Class B activities required to complete the work.
8. Rates and prices entered in the BOQ includes all descriptive features come under general clearance, removal of trees and stumps of Class D.
9. Dewatering shall be included in the Rates and prices of items in BOQ for pipe laying and similar works under Class I.
10. Rates and prices entered in the BOQ includes breaking and temporary reinstatement of roads of Class K.
11. Rates and prices entered in the BOQ includes asphalt/tar/concrete cutting to relevant road authority standards and maintaining road surface until handing-over to Road Authorities.
12. The Rates includes cost of transportation, handling, loading, unloading and other expenses to transport pipes and jointing materials from Employer’s store to sites. List of Employer’s stores specified in Section 13 in this document.
13. Rates and prices entered in the BOQ includes cost of crossing of sewer or drain, fence, wall, hedges and other underground services.
14. Cost for application of Joint protection materials and wrapping the entire mechanical joints as per specification included in the Rates.
15. The laying length for common trench means the length of largest bore pipe including fittings. The Rate includes cost for laying of all pipes in same trench.
16. All costs for protection of staked pipes/ fittings/ accessories, protection of open trench or pits including decking and road barricades and follow all related safety procedures as per the specification included in the Rate.
17. Pipe laying Rates includes for pressure testing, cleaning, disinfection of pipelines and temporary road reinstatement.
18. Pipe laying shall be measured excluding valves, manholes, other chambers which are measured as stated under Class J.
19. Pipe laying shall be measured excluding culvert crossings except Type A1a, A2a &A3a. Pipe laying shall be measured excluding bridge crossings, railway crossings, which are measured separately under Class K.
20. Road crossings shall not be paid separately.
21. Laying of warning tape as specified in the Specification for different pipe materials included in the Rates of the pipe laying.
22. Cost for handling or double handling of excavated material included in pipe laying item Rates in the BOQ.
23. Descriptive feature 3 to 8 depth categories in Third Division of Class I are superseded by the BOQ.

##### CLASS J – PIPEWORK – FITTINGS AND VALVES

1. Rates and prices entered in the BOQ excludes supply of fittings, valves, surface boxes, specials, flange protection material and accessories.
2. Pressure class for both HDPE and uPVC fittings up to the diameter of 225mm not considered separately for the Rates in BOQ. Rates for fittings included for necessary thrust block as indicated in type drawings (The relevant thrust block for the relevant pressure class of the fitting shall be used).
3. Fittings on pipes in trenches shall be measured and paid separately as extra over to pipe laying.
4. Valve item shall be measured between the two couplings/ flange of flange adaptors/stub flange joint as specified in the relevant type drawings and payment will be made accordingly.
5. Washouts, fire hydrants, air valves, inline valves, associated fittings and specials shall be measured in full value and all necessary works included in the Rate as indicated in type drawings. Rate includes for in-situ concrete or precast concrete valve chambers/ protecting tube with surface box and associated all components as indicated in the type drawings.
6. Depth ranges of other stated chambers classified as per the BOQ and refer relevant rules in the Class K.
7. The Rates includes cost of transportation, handling, loading, unloading and other expenses to transport pipes and jointing materials from store to Sites.
8. Dewatering included in the Rates and prices of items in the BOQ for fittings and valves and similar works under Class J.
9. Cost for application of joint protection materials and wrapping the entire mechanical joints as per specification included in the Rates.
10. Cost of ‘Marker post’ included in the Rates of valves under Class J.

### CLASS K - PIPEWORK – MANHOLES AND PIPEWORK ANCILLARIES

1. Rates and prices entered in the BOQ excludes supply of pipes, fittings, valves, surface boxes, specials, flange protection material and accessories.

Revised on 12-07-2021

1. The Rates includes cost of transportation, handling, loading, unloading and other expenses to transport pipes and jointing materials from store to Sites.
2. Rates and prices entered in the BOQ under Class I or J covers all descriptive features come within other stated chambers, temporary reinstatement under reinstatement and timber/metal supports left in excavations under other pipework ancillaries of Class K activities required to complete the work. Cost incurred for such work of Class K not paid separately under Class K.
3. Rates and prices entered in the BOQ under Class J covers all descriptive features come within other stated chambers, outfall structures and marker posts under other pipework ancillaries of Class K activities required to complete the work as per the drawings. Cost incurred for such work of Class K not paid separately under Class K.
4. Dewatering included in the Rates and prices of items in the BOQ for crossings and similar works under Class K.
5. Cost of crossings includes for earthworks, diversion of waterways, coffer damming if necessary, breaking through abutments/wing walls if necessary, reinstatement of those, providing suitable thrust blocks/ anchor blocks where necessary, painting on all exposed pipes, fittings and other materials, supply and application of specified flange joint protections as per the Contract, supply and fixing of pipe strap where necessary, supply and fixing of specified protection covers for air valve as per the Contract and all other necessary works to complete the crossing excluding column supports.
6. The length of culvert crossing shall be considered as the length between the two couplings/ flange of flange adaptors/ bell ended sleeve/ stub flange joint as specified in the relevant type drawings and payment will be made accordingly. The “minimum length” given in the type drawing shall be fixed as three (03) meters for each Type of culvert crossing. When the length of the culvert crossing exceeds three (03) meters, extra length shall be measured as extra over to the culvert crossing item as a linear measurement in meters.
7. Pressure class not considered separately for the Rates in the BOQ for culvert crossing types of “Type B4 & B6” for HDPE and uPVC mains.

Revised on 12-07-2021

1. Type A culvert crossing excluding Type A1b, A2b and A3b shall be considered as a pipeline and shall be measured in the laying under Class I.
2. If any column support comes under the Culvert crossing Type E, such column supports shall be measured and paid separately under Class L.
3. Cost for application of Joint protection materials and wrapping the entire mechanical joints as per specification shall be included in the Rates.
4. Permanent road reinstatement shall be measured in square meters irrespective of pipe bore.

##### CLASS L – PIPEWORK – SUPPORTS AND PROTECTION, ANCILLARIES TO LAYING AND EXCAVATION

1. This class includes extras to excavation and backfilling of trenches for pipework, ducts and metal culverts, manholes and other chambers, heading, thrust boring and pipe jacking, pipe laying in headings and by thrust boring and pipe jacking and provision of supports and protection to pipework, ducts and metal culverts.
2. Cost of the extras to excavation and backfilling shall mean the additional cost to be incurred for the excavation and backfilling measured under Class I.
3. Extras to backfilling with imported materials includes the cost of disposal of relevant surplus excavated material.
4. “Beds” are considered as a special filling below the invert level of the pipe and it includes earthwork and dewatering where necessary. If the material of the Bed and the Surrounds/Haunches is same it is measured as Surrounds/Haunches including the Bed.
5. If any supporting column comes under the Culvert crossing Type E in Class K, such supporting column shall be measured in numbers under Class L and Rate includes for all costs to complete such column supports.
6. The “Height” of a supporting column used for classification shall be measured from the top of base of the supporting column to the invert of the supported pipe.
7. Second Division height categories of Class L given under items in the CESSM3 in accordance with the height categories given in the BOQ for the purpose of Rates and prices.

**CLASS P - PILES**

P.1. The bidder is required to visit the site of the proposed work, as it is his responsibility to ascertain the conditions, governing access to the site, the external working space, storage area, etc.

P.2. All costs for protection of the Work, and all related safety procedures deemed to be included in the rate.

P.3. All costs of prevent or mitigate any risk of work execution are deemed to be included in

the rate.

P.4. Rate shall be included for breaking through obstruction if any required.

P.5. Setting out piles and dimensions of piles to be approved by the Engineer prior to commencement of work.

P.6. Rate shall be included for mobilization & demobilization.

**CLASS Q - PILING ANCILLARIES**

Q.1. Pile tests to be completed as per specifications and reports to be submitted for Engineer's

approval.

##### CLASS X – MISCELLENIOUS WORK

**X1- Service Connections**

1. Rates and prices entered in the BOQ excludes supply of pipes, fittings, valves, water meters, specials, and accessories.
2. Rates and prices entered in the BOQ includes road cutting, breaking of roads, excavation and backfilling of access pit to tapping point and trenches for pipework, dewatering, temporary reinstatement, disposal of surplus excavated material, tapping/laying/fixing/installation of all pipes, fittings, valves, water meters, specials and accessories to complete the work as per the relevant type drawings and specification.
3. The length of service connection shall be considered as the “variable length” which is between the ferrule and the water meter as specified in the relevant type drawings and payment will be made accordingly. This “variable length” up to four (04) meters for each service connection shall be measured in numbers (“nr”). When the “variable length” of the service connection exceeds four (04) meters, extra length shall be measured as extra over to the service connection item as a linear measurement in meters.
4. Customer satisfaction feedback sheet signed by the customer regarding residual pressure performance and no visible leakage up to the meter shall be submitted for the payment request of service connections.

* **PREAMBLE NOTES ON PRICING**

1. **General**

1.1 The bidder's attention is specifically directed to the Form of Bid, Instructions to Bidders, Bidding data, Conditions of Contract, Contract Data, Delivery locations, Schedule of Particulars and Specifications which are to be read in conjunction with the Bid. The following Notes are given to assist the Bidders to understand how the pricing has been done by the Employer.

2. **Description of Items**

2.1 Descriptions attached to the items in the BOQ are only in sufficient detail to ensure identification of the item described in the specification.

3. **Rates and prices**

3.1 The rates given in the BOQ are pre-established rates by NWSDB, after calling Rates Contracts on competitive basis.

3.2 In pricing the items of the BOQ, by the Employer, followings have been covered.

a) All services and Materials which according to the true intent and meaning of the contract may be reasonably inferred as necessary for completion of delivery of the Materials in sound condition to the Stores which is specified under delivery Schedule.

b) All the duties, obligations, liabilities and responsibilities which the Contract documents place upon the bidders in connection with or in relation to the Contract.

c) All costs arising out of inspection testing, packing, transportation, clearing, loading, unloading, stacking, shipping line charges, warehouse rent, port chargers, any demurrages, import duties, business taxes, income and all other taxes, custom levies, import license fees, cost of insurance from the manufacturers plant to the purchases stores, and transportation to the designated locations, loading and unloading, Agents Commission if any and other minor expenses and relevant risk factor for one year period.

d) All Costs including all taxes and duties and other charges imposed outside Sri Lanka on raw materials, production, manufacture, sales, transport and any other cost that may be incurred of all Materials**.**

e) Cost of accessories not specially listed, but necessary for proper completion

f) Price charged by the supplier for the preceding incidental services.

3.3 Insurance shall be done by the Contractor

4. The Employer has included in the unit price for DI/HDPE/PVC pipes, fittings, specials and accessories and the cost of all materials required for jointing of pipes, (bolts and nuts and gaskets for flanged fittings etc.) **unless separate items are provided.**

5. The rates and/or prices entered against items in the BOQ shall be excluding the VAT as the VAT is considered separately.

Revised on 12-07-2021

**BILLS OF QUANTITIES**

*Select*

*Unit Rate Supply BOQQ and Laying BOQQ in NWSDB Web*

### *(under the Rate Contracts in “Restrict Links”)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NATIONAL WATER SUPPLY & DRAINAGE BOARD** | | | | | | |
|  | | | | | | |
| **BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..** | | | | | | |
| **CONTRACT NO : NWSDB/………..** | | | | | | |
|  |  |  |  |  |  |  |
| **BILL NO: 01 - GENERAL ITEMS** | | | | | | |
|  |  |  |  |  |  |  |
| **Item No** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate LKR** | **Amount LKR** |
|  |  |  |  |  |  |  |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 1.01 | A 211 | Establishment and removal of project office as specified in the Contract Data for the Engineer's staff. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.02 | A 211 | Maintenance of project office for Engineer's staff. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.03 | A 211 | Maintenance of project office for Engineer's staff for …….. months *(Max 6 months)* in Defects Notification Period. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.04 | A 211 | Establishment and removal of sub office as specified in the Contract Data for the Engineer's staff at ………………... site. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.05 | A 211 | Maintenance of sub office for Engineer's staff at …………………. site. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.06 | A 211 | Establishment and removal of mobile office as specified in the Contract Data for the Engineer's staff at ………………….. Site. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.07 | A 211 | Maintenance of site office for Engineer's staff at ………………. Site. | month | xx | xxxx.xx | xxxxx.xx |
| **Total of Page No. 11-12  Carried to summary Page No. 11-19** | | | | | | **-** |

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| **Item No** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate LKR** | **Amount LKR** |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 1.08 | A 221 | Transport facilities to Project Manager's staff, 4 wheel Double Cab for 2500km per month including driver and fuel as specified in the Contract Data. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.09 | A 221 | In addition to the above item 1.08, exceeding 2500km for a month for the whole Contract period. | km | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.10 | A 221 | In addition to Item 1.08 and 1.09, overtime for the driver for whole Contract period. | hr | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.11 | A 221 | Transport facilities for use of Engineer's staff 4 wheel Double Cab for 2000km per month including driver and fuel as specified in the Contract Data for ……... months *(Maximum 6 months)* in Defects Notification Period. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.12 | A 221 | In addition to the above item 1.11, exceeding 2500km for a month for Defect Notification Period. | km | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.13 | A 221 | In addition to Item 1.11 and 1.12, overtime for the driver for Defect Notification Period. | hr | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.14 | A 221 | Transport facilities for use of Engineer's Staff, ….. nos. minimum 8 seater passenger vans for 2500km per month for each including drivers and fuel as specified in the Contract Data. | month | xx | xxxx.xx | xxxxx.xx |
| **Total of Page No. 11-13  Carried to summary Page No. 11-19** | | | | | | **-** |

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| **Item No** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate LKR** | **Amount LKR** |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
| 1.15 | A 221 | In addition to the above item 1.14, exceeding 2500km for a month for the whole Contract period. | km | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.16 | A 221 | In addition to Item 1.14 and 1.15, overtime for the driver for whole Contract period. | hr | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.17 | A 222 | Fixed telephone facilities for project office with data facility for Engineer's staff - maximum monthly payment of Rs. 10,000.00 per phone). | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.18 | A 222 | Fixed telephone facilities for project office with data facility for Engineer's staff for ……... months *(maximum 6 months)* in Defect Notifications Period- maximum monthly payment of Rs. 10,000.00 per phone). | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.19 | A 222 | Router / donglee with data facility for for the Engineer's staff at …………….. sub office - maximum monthly payment of Rs. 5,000.00 per each connection). | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.20 | A 222 | Mobile telephone facilities for Engineer's staff (…….. nos. mobile phones maximum monthly payment of Rs. 1000.00 per phone. ). | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.21 | A 222 | Mobile telephone facilities for Engineer's staff for …….. months (maximum 6 months) in Defects Notification Period. (maximum monthly payment of Rs:1000.00 per phone. ). | month | xx | xxxx.xx | xxxxx.xx |
| **Total of Page No. 11-14  Carried to summary Page No. 11-19** | | | | | | **-** |

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| **Item No** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate LKR** | **Amount LKR** |
| 1.22 | A 231 | Establishment and removal/ handing over office equipment of project office as specified in the Contract Data for the Engineer's staff. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.23 | A 231 | Establishment and removal/ handing over office equipment of sub office at ………...……. site as specified in the Contract Data for the Engineer's staff. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 1.24 | A 231 | Establishment and removal/ handing over office equipment of mobile office at ………...……. site as specified in the Contract Data for the Engineer's staff. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.25 | A 231 | Maintenance of office equipment, services and provide other facilities within whole Contract period for the Engineer's staff at project office as specified in the Contract Data . | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.26 | A 231 | Maintenance of office equipment, services and provide other facilities within whole Contract period for the Engineer's staff at ……………sub office as specified in the Contract Data. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.27 | A 231 | Maintenance of office equipment, services and provide other facilities within whole Contract period for the Engineer's staff at …………… mobile office as specified in the Contract Data. | month | xx | xxxx.xx | xxxxx.xx |
| **Total of Page No. 11-15  Carried to summary Page No. 11-19** | | | | | | **-** |

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| **Item No** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate LKR** | **Amount LKR** |
| 1.28 | A 231 | Maintenance of office equipment, services and provide other facilities for the Engineer's staff at project office as specified in the Contract Data for …………. months *(maximum 6 months)* in Defects Notification Period for project office. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.29 | A 271 | Traffic diversion and such charges associated with and all measures for the maintenance of traffic flows and access during Contract period as directed by the Engineer. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.30 | A 272 | Establishment and removal of traffic regulations. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 1.31 | A 272 | Continuing operation and maintenance of traffic regulations. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.32 | A 290 | Submission of progress photographs including digital copy. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.33 | A 290 | Safety superintendent as specified in the Contract. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.34 | A 290 | Safety accessories for the use of Engineer's staff. (Rain Coats, Helmets, Gumboots, Gloves, dust filters etc.) | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.35 | A 290 | Site safety barricades including open trench round up with barricades and luminous tape, danger sign boards etc. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.36 | A 290 | Night lighting and all associated work . | sum |  |  | xxxxx.xx |
| **Total of Page No. 11-16  Carried to summary Page No. 11-19** | | | | | | **-** |
| **Item No** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate LKR** | **Amount LKR** |
| 1.37 | A 279 | Provide and display Contract name boards on suitable GI framing where directed (2400x1500mm) including lettering as per the instructions given by the Engineer. | nr | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.38 | A 279 | Provide and display category identification name boards (450x100mm) fixed to walls and lettering as per the instructions given by the Engineers. | nr | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.39 | A 279 | Provide and fixing of 2400x1500mm digital display layout board including suitable GI framing fixed to the ground where directed for displaying treated process at the water treatment plant as directed by Engineer. | nr | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 1.40 | A 290 | Keeping the Site clean during the Contract period and removal all debris before start Defects Notfication Period to the satisfaction of the Engineer. | month | xx | xxxx.xx | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.41 | A 290 | Extra over to item 1.41. |  |  |  |  |
|  |  | The contractor shall take due care to prevent water stagnation, climate mosquito breeding places at the site and this is to be ensured through internal monitoring mechanism. |  |  |  |  |
|  |  | Funding provision to be included to assign part time basis suitable persons to be engaged in maintaining documents, forms & also for site inspections take actions to prevent mosquito breeding area & to ensure the site is free of mosquito breeding places. | month | xx | xxxx.xx | xxxxx.xx |
| **Total of Page No. 11-17  Carried to summary Page No. 11-19** | | | | | | **-** |

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| **Item No** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate LKR** | **Amount LKR** |
| 1.42 | A 420 | Providing two sets of hard copy and a soft copy (CAD) of the as-built drawings on GIS data platform, other records, etc. before start Defects Notfication Period as per the Contact data and as directed by the Engineer. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.43 | A 900 | Dust controlling during Contract period as directed by the Engineer | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.44 | A 900 | Disinfection, testing and commissioning of all water retaining structures excluding chemicals for commissioning. *(were necessary)* | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.45 | A 900 | Cleaning and applying all exposed pipes and specials with two coats of heat reflective approved paint after completion of laying. | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 1.46 | A 900 | Incidental allowance and combined allowance for pre-shipment inspection for two (02) engineers by NWSDB as per Contract Data. ( …….nos. of pre-shipment inspections) | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| 1.47 | A 900 | Inspection and testing by Independent Inspection and Testing Agency as per the Contract Data | sum |  |  | xxxxx.xx |
|  |  |  |  |  |  |  |
| **Total of Page No. 11-18  Carried to summary Page No. 11-19** | | | | | | **-** |

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| **NATIONAL WATER SUPPLY & DRAINAGE BOARD** | |
| **BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..** | |
| **CONTRACT NO : NWSDB/……………………….** | |
|  |  |
| **SUMMARY OF BILL NO: 01 - GENERAL ITEMS** | |
|  |  |
|  |  |
| **Page Number** | **Amount  LKR** |
| **Page No. 11-12** |  |
| **Page No. 11-13** |  |
| **Page No. 11-14** |  |
| **Page No. 11-15** |  |
| **Page No. 11-16** |  |
| **Page No. 11-17** |  |
| **Page No. 11-18** |  |
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| **Total of Page No. 11-19  Carried to Grand Summary in Page No 11-…..** | **-** |

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| **NATIONAL WATER SUPPLY & DRAINAGE BOARD** | | | | | | |
| **BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..** | | | | | | |
| **CONTRACT NO. : NWSDB/……………………….** | | | | | | |
|  |  |  |  |  |  |  |
| **BILL NO. 02 – PROVISIONAL SUMS** | | | | | | |
|  |  |  |  |  |  |  |
| **Item No.** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate  LKR** | **Amount LKR** |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 2.01 | A 110 | Provision for Bank charges of Performance Security under the Contract.  (Contractor's percentage adjustment for Performance Security - 2% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.02 | A 190 | Provision for premium of insurance under the Contract.  (Contractor's percentage adjustment for insurance - 2% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.03 | A 411 | Daywork - Labour  (Contractor's percentage adjustment for daywork - labour 15% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.04 | A 413 | Daywork - Material  (Contractor's percentage adjustment for daywork - material 6% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.05 | A 415 | Daywork - Plant  (Contractor's percentage adjustment for daywork - plant 10% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| **Total of Page No. 11-20  Carried to summary Page No. 11-23** | | | | | |  |

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| **Item No.** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate  LKR** | **Amount LKR** |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 2.06 | A 420 | Provision for diversion, support, protection or relocation of existing services or utilities as directed by the Engineer. (This item does not include provision for any items already in the BOQ)  (Contractor's percentage adjustment this item - 27% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.07 | A 420 | Provision for Supply & Laying of additional pipes and fittings for yard piping. (Contractor's percentage adjustment this item - 27% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.08 | A 420 | Allow for investigation testing of materials of soil and other required laboratory tests other than specified in the contract as directed by the Engineer.  (Contractor's percentage adjustment this item - 8% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.09 | A 420 | Provision for Supply of small tools & Equipments to NWSDB for daily operations and equippments. (Contractor's percentage adjustment this item - 6% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.10 | A 420 | Provision for Employer's supportive services and supervision staff as specified in the Contract Data. (Contractor's percentage adjustment for this item 8% on the relavant amount) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.11 | A 420 | Provision for implementation of water safety plan. | p.sum |  |  | **xx,xxx.xx** |
| **Total of Page No. 11-21  Carried to summary Page No. 11-23** | | | | | | **-** |
| **Item No.** | **CESMM3 Code** | **Description** | **Unit** | **Qty.** | **Rate  LKR** | **Amount LKR** |
|  |  | **CLASS A : GENERAL ITEMS** |  |  |  |  |
|  |  |  |  |  |  |  |
| 2.12 | A 420 | Provision for price escalation | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.13 | A 420 | Provision for Custom Duty. | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
| 2.14 | A 421 | Provision for undifined special Works as directed by the Engineer (Contractor's percentage adjustment for Undifined Special Works 27% on the relevant amount.) | p.sum |  |  | **xx,xxx.xx** |
|  |  |  |  |  |  |  |
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| **Total of Page No. 11-22  Carried to summary Page No. 11-23** | | | | | | **-** |

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| **NATIONAL WATER SUPPLY & DRAINAGE BOARD** | |
| **BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..** | |
| **CONTRACT NO : NWSDB/……………………….** | |
|  |  |
| **SUMMARY OF BILL NO: 02 – PROVISIONAL SUMS** | |
|  |  |
|  |  |
| **Page Number** | **Amount  LKR** |
| **Page No. 11-20** |  |
| **Page No. 11-21** |  |
| **Page No. 11-22** |  |
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| **Total of Page No. 11-23  Carried to Grand Summary in Page No 11-…..** | **-** |

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

**………………………..…………….. WATER SUPPLY SCHEME**

**CONTRACT NO: ……………………………………..**

**BILL NO. 02 – PROVISIONAL SUMS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill No. | From page No. | Description | Amount | |
| Rs. | Cts. |
|  |  |  |  |  |
| 02 |  | Provisional sums | …………….. | …………….. |
|  |  | Contractor’s Adjustment Factor (± …%) | ……………. | …………… |
|  |  | **Sub Total (1)** |  |  |
|  |  | Less: Provisional Sums |  |  |
|  |  | **Sub Total (2)** |  |  |
|  |  | Add: Contingencies [Sub total (2) x10%]  Add: Provisional Sums |  |  |
|  |  | **Total of Page No. 11-24  Carried to Grand Summary in Page No 11-…..** |  |  |

VAT Registration Number : ………..……………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000.

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

**………………………..…………….. WATER SUPPLY SCHEME**

**CONTRACT NO: ……………………………………..**

**SUMMARY OF BILLS - 03**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill No. | From page No. | Description | Amount | |
| Rs. | Cts. |
|  |  |  |  |  |
| 03 |  | Supply and Delivery HDPE Pipes, Fittings, Specials and Accessories | …………….. | …………….. |
|  |  | Contractor’s Adjustment Factor (± …%) | ……………. | …………… |
|  |  | **Sub Total (1)** |  |  |
|  |  | Less: Provisional Sums |  |  |
|  |  | **Sub Total (2)** |  |  |
|  |  | Add: Contingencies [Sub total (2) x10%]  Add: Provisional Sums |  |  |
|  |  | **Total of Page No. 11-25 Carried to Grand Summary in Page No 11-…..** |  |  |

VAT Registration Number : ………..……………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000.

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

**………………………..…………….. WATER SUPPLY SCHEME**

**CONTRACT NO: ……………………………………..**

**SUMMARY OF BILLS - 04**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill No. | From page No. | Description | Amount | |
| Rs. | Cts. |
|  |  |  |  |  |
| 04 |  | Supply and Delivery DI Pipes Fittings, Specials and Accessories | …………….. | …………….. |
|  |  | Contractor’s Adjustment Factor (± …%) | ……………. | …………… |
|  |  | **Sub Total (1)** |  |  |
|  |  | Less: Provisional Sums |  |  |
|  |  | **Sub Total (2)** |  |  |
|  |  | Add: Contingencies [Sub total (2) x10%]  Add: Provisional Sums |  |  |
|  |  | **Total of Page No. 11-26  Carried to Grand Summary in Page No 11-…..** |  |  |

VAT Registration Number : ………..……………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000.

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

**………………………..…………….. WATER SUPPLY SCHEME**

**CONTRACT NO: ……………………………………..**

**SUMMARY OF BILLS - 05**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill No. | From page No. | Description | Amount | |
| Rs. | Cts. |
|  |  |  |  |  |
| 05 |  | Supply and Delivery DI Valves, Man Hole Covers and Surface boxes | …………….. | …………….. |
|  |  | Contractor’s Adjustment Factor (± …%) | ……………. | …………… |
|  |  | **Sub Total (1)** |  |  |
|  |  | Less: Provisional Sums |  |  |
|  |  | **Sub Total (2)** |  |  |
|  |  | Add: Contingencies [Sub total (2) x10%]  Add: Provisional Sums |  |  |
|  |  | **Total of Page No. 11-27  Carried to Grand Summary in Page No 11-…..** |  |  |

VAT Registration Number : ………..……………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000.

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

**………………………..…………….. WATER SUPPLY SCHEME**

**CONTRACT NO: ……………………………………..**

**SUMMARY OF BILLS - 06**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill No. | From page No. | Description | Amount | |
| Rs. | Cts. |
|  |  |  |  |  |
| 06 |  | Laying of HDPE/DI Pipes, Fitting, Specials and Accessories | …………….. | …………….. |
|  |  | Contractor’s Adjustment Factor (± …%) | ……………. | …………… |
|  |  | **Sub Total (1)** |  |  |
|  |  | Less: Provisional Sums |  |  |
|  |  | **Sub Total (2)** |  |  |
|  |  | Add: Contingencies [Sub total (2) x10%]  Add: Provisional Sums |  |  |
|  |  | **Total of Page No. 11-28  Carried to Grand Summary in Page No 11-…..** |  |  |

VAT Registration Number : ………..……………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000.

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

**………………………..…………….. WATER SUPPLY SCHEME**

**CONTRACT NO: ……………………………………..**

**SUMMARY OF BILLS - 07**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill No. | From page No. | Description | Amount | |
| Rs. | Cts. |
|  |  |  |  |  |
| 07 |  | *Others if any*……………………… | …………….. | …………….. |
|  |  | Contractor’s Adjustment Factor (± …%) | ……………. | …………… |
|  |  | **Sub Total (1)** |  |  |
|  |  | Less: Provisional Sums |  |  |
|  |  | **Sub Total (2)** |  |  |
|  |  | Add: Contingencies [Sub total (2) x10%]  Add: Provisional Sums |  |  |
|  |  | **Total of Page No. 11-29  Carried to Grand Summary in Page No 11-…..** |  |  |

VAT Registration Number : ………..……………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000.

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**BID FOR SUPPLY & LAYING OF HDPE/DI PIPES, FITTINGS, SPECIALS AND ACCESSORIES FOR………..**

**………………………..…………….. WATER SUPPLY SCHEME**

**CONTRACT NO: ……………………………………..**

**GRAND SUMMARY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill No. | From page No. | Description | Amount | |
| Rs. | Cts. |
| 01  02 |  | General  Provisional Sums | …………….  …………….. | ……………..  …….….…. |
| 03  04 |  | Supply and Delivery HDPE Pipes, Fittings, Specials and Accessories  Supply and Delivery DI Pipes Fittings, Specials and Accessories | ……………..  ……………. | ……………..  ……………. |
| 05 |  | Supply and Delivery DI Valves, Man Hole Covers and Surface boxes | …………….. | …………….. |
| 06 |  | Laying of HDPE/DI Pipes, Fitting, Specials and Accessories | …………….. | …………….. |
| 07 |  | *Others if any*……………………… | …………… | …………….. |
|  |  |  |  |  |
|  |  | **Sub Total (1)** |  |  |
|  |  | Less: Provisional Sums |  |  |
|  |  | **Sub Total (2)** |  |  |
|  |  | Add: Contingencies [Sub total (2) x10%]  Add: Provisional Sums |  |  |
|  |  | **Total of Bid carried to Form of Bid (excluding VAT) in page 4-1** |  |  |

VAT Registration Number : ………..……………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000.

**12. STANDARD FORMS**

* **Bid Security**
* **Letter of Acceptance**
* **Agreement**
* **Performance Security**
* **Advance Payment Security**
* **Retention Money Guarantee**

FORM OF BID SECURITY

*-------------------------------------------------------------------------------------------------------*

*-------------------------------------------------------------------------------------------------------*

*[insert issuing agency’s name, and address of issuing branch or office]*

**Beneficiary:** The Chairman, National Water Supply & Drainage Board,

Galle Road, Ratmalana, Sri Lanka

**Date:** ---------------------------- *[insert (by issuing agency) date]*

**BID SECURITY No.:** -------------------------- *[insert (by issuing agency) number]*

We have been informed that --------------------------------------------------------------------------------------- *[name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated ---------------*[ date]* (hereinafter called "the Bid") for the execution of ………………………………………………

*………………………………………….[insert name of Contract]* under Contract No. -----------------------

Furthermore, we understand that, according to your conditions, Bids must be accompanied by a Bid Security.

At the request of the Bidder, we ----------------------------------------------- *[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ------------------- *[insert amount in figures]*  -------------------------------------------------------------- ---------------------------------------------------------------- *[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

(a) has withdrawn its Bid during the period of bid validity specified; or

(b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter “the ITB”) or

(c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Security shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) the successful bidder furnishing the performance security, otherwise it will remain in force up to ---------------- *(insert date)*

Consequently, any demand for payment under this Security must be received by us at the office on or before that date.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*[signature(s) of authorized representative(s) ]*

**LETTER OF ACCEPTANCE**

*[Letter heading paper of the Employer]*

…………… *[Date]*

To: ……………………………………………………………………………………………

*[Name of the Contractor]*

………………………………………………………………………………………………

*[Address of the Contractor]*

This is to notify you that your bid dated ………………………….*[insert date]* for construction and remedying defects of the …………………………….…………………..………………..*[name of the Contract and Contract number]*for the Contractor price of…………………………………………... ……………………………………………………..........................*[amount in figures and words, if multiple currencies are involved, indicate amounts under each currency separated by the word “and” between them]* as corrected in accordance with Instructions to Bidders and/or modified by a Memorandum of Understanding, is hereby accepted.

Applicable VAT will be payable on production of Tax Invoice. The Registered No. for NWSDB for VAT is 409031820700.

You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract documents.

The commencement date shall be : ………………………………….*(fill the date as per Conditions of Contract).*

Contract Period is …… days from the commencement date.

Liquidated Damages shall be Rs. ……………/day up to the limit of 10% of the Contract price.

The Amount of Performance Security is : ………………………

The Performance Security shall be submitted on or before ………………………………*(fill the date as per Conditions of Contract)*. Failing to submit the performance guarantee will be a breach of Contract and actions shall be taken as per Clause 17 of the Instruction to Bidders.

Please acknowledge the receipt of this letter by return fax and make arrangements to sign the agreement by prior appointment with the Asst. General Manager (Tenders &Contracts) within ….. days.

Please contact PD/DGM ( )/AGM ( ), Engineer’s Representative of this Contract, whose telephone number is ………………………. for further action on this Contract.

…………………………….

General Manager

National Water Supply & Drainage Board

THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

**MINISTRY OF …………………………………**

## NATIONAL WATER SUPPLY AND DRAINAGE BOARD

**BID FOR …………………………………………….**

**CONTRACT No.: …………………………………..**

**AGREEMENT**

This AGREEMENT, is made and entered into on this …………….day of……… Two Thousand and ……………..by and between National Water Supply and Drainage Board, a corporate body duly established under the provisions of the National Water Supply and Drainage Board Act No.2 of 1974 and having its Head Office at Ratmalana in Sri Lanka (hereinafter called “the Employer” or “the Board”) of the one part and Messrs .………………………………………………………………… …………………………………………………………………………………………… (Hereinafter called “the Contractor”) of the other part.

WHEREAS the Employer is desires that the Contractor execute ………..………………………….., ………………………………………………………………………………………………………

……………………………………………………………..[name and identification number of Contract] (hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.

2. The documents forming the Contract shall be interpreted in the following order of priority:

(1) Agreement,

(2) Letter of Acceptance,

(3) Memorandum of understanding (if any)

(4) Form of Bid,

(5) Contract Data,

(6) Conditions of Contract,

(7) Specifications,

(8) Drawings,

(9) Bills of Quantities,

(10) Any other document listed in the Contract Data as forming part of the Contract.

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year aforementioned in accordance with the laws of Sri Lanka.

Signed by the said …………………………………………. Chairman, National Water Supply and Drainage Board and ……………………………………………. Board Member of the National Water Supply and Drainage Board at …………………………………… on the …………. day of ………………………….. Two Thousand and ……………….. in the presence of the following Witnesses..

Chairman …………………………………

Board Member ……………………………

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**Witnesses**

1. Signature ……………………. 2. Signature : ………………………

Name : ……………………. Name : ………………………

Address : ……………………. Address : ………………………

……………………. ………………………

……………………. ………………………

For and on behalf of the Contractor : signed by the said ……………………………………in the capacity of …………………………………………………………………………. and/or duly authorized to sign this Contract agreement for and on behalf of …………………...……..

…………………………………………………………………………………………………..

……………………………………………………………… (Block Letters)

**Witnesses**

1. Signature ……………………. 2. Signature : ………………………

Name : ……………………. Name : ………………………

Address : ……………………. Address : ………………………

……………………. ………………………

……………………. ………………………

**PERFORMANCE SECURITY**

**(Unconditional)**

……………………………………………………………………………………………………… *[Issuing Agency’s Name and address of Issuing Branch or Office]*

**Beneficiary : ……………………………………………………………………………………**

*[Name and Address of Employer]*

**Date** : ………………………………………………………

**PERFORMANCE SECURITY NO.: ………………………………………**

We have been informed that ……………………………………………………………………..

*[Name of Contractor](hereafter called “the Contractor”)* has entered into Contract No. *………………………………[reference number of the Contract]* dated …………………………with you, for the …………………………………………………………………………*[insert “Construction”]* of ……………………………………………………………………………….

*[name of Contract and brief description of Works] (hereinafter called “ the Contract”).*

Furthermore, we understand that, according to the conditions of the Contract, a performance security is required.

At the request of the Contractor, we ……………………………………………………………………

*[name of Agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ………………………………………..…………………………………*[amount in figures]* (………………………………….……………………………………………………………………………………………………………) *[amount in words],* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This security shall expire, no later than the ………… day of …………. 20……. *[insert date, 28 days beyond the Defects Notification Period]* and any demand for payment under it must be received by us at this office on or before that date.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract document which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice or any such change, addition or modification.

……………........................................................ …….….

[Signature(s)] of the Guarantor Seal

Capacity …………………………..

**FORM OF ADVANCE PAYMENT SECURITY**

**………………………………………………………………………………………………………………………………………………….***[Name and address of Agency, and Address of Issuing Branch or Office]*

Beneficiary : ………………………………………………..………………………………………...

……………………………………………*[Name and Address of Employer]*

Date :……………………………………………

ADVANCE PAYMENT SECURITY No.:………………………….

We have been informed that ……………………………………………..…………………….. *[name of Contractor]* (hereinafter called “the Contractor”) has entered into Contract No…………………………. *[reference number of the Contract]* dated ………………….. with you, for the …………………….. construction of ………………………………. *[name of Contract and brief description]* (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum ……………………………………………………..……..………………*[amount in figures]* ………………………..……………………..…………………………………….)

*[amount in words]* is to be made against an advance payment security**.**

At the request of the Contractor, we ………………………………………………………

…………….*.[name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ……….…………………………………*.[amount in figures]* (……………………………………………………………………..) *[amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation in repayment of the Advance payment under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

The maximum amount of this security shall be progressively reduced by the amount of the advance payment repaid by the Contractor.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract document which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice or any such change, addition or modification.

This guarantee shall be remain valid and in full effect from the date of the advance payment under the Contract until National Water Supply and Drainage Board, receives full repayment of the same amount from the Contractor.

Consequently, any demand for payment under this security must be received by us at this office on or before that date.

……………........................................................ …….….

[Signature(s)] of the Guarantor Seal

Capacity …………………………..

Witness Signature ……………………………………….

Name & Address ……………………………….

Capacity …………………………………..

**FORM OF RETENTION MONEY GUARANTEE**

………………………………………………………………………………………….

[ Issuing Agency’s Name, and Address of Issuing Branch or Office]

Beneficiary : ………………………………………………………………………………..

……………………………………………[Name and Address of Employer]

Date : ………………..

RETENTION MONEY GUARANTEE No.: ………………………………………

We have been informed that …………………………………………………………….

[name of Contractor] (hereinafter called “the Contractor”) has entered into Contract No…………………………………………………………………….. [reference number of the contract] dated …………………………… with you, for the execution of …………………………….

……………………………………………………………………….. [name of contract and brief description of Works] (hereinafter called “the Contract”).

Furthermore, we understand that, according to the Conditions of the Contract, when the works have been taken over and the first half of the Retention Money has been certified for payment, payment of the second half of the Retention Money may be made against a Retention Money guarantee.

At the request of the Contractor, we ……………………………………………………………………

[name of agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of …………………………………………………………………..……[amount in figures] (…………………………………………………………………………………..[amount in words] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor has not attended to the defects in accordance with the Contract.

This guarantee shall expire, at the latest, …………………………………….[insert 28 Days after the end of the Defects Notification Period]. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

…………….........................

[Signature(s)]

**13. APPENDICES**

**APPENDIX 1 – GENERAL INFORMATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *(i)* | *If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.* | | | |
| *(ii)* | *For joint ventures, each joint venture partner shall furnish information separately.* | | | |
| **ITB**  **Clause reference** | | **Description** | **Information**  ***(to be filled by the Bidder)*** | **Remarks** |
| **4.1(a)** | | **Legal Status** |  | *Provide certified copies of*  *Registration* |
|  | | Written power of attorney of the signatory to the Bid | *Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 4.1(a)* | |
|  | | If a Joint Venture, names and addresses of Joint Venture Partners | 1. ………………………….  2. ………………………….  3. …………………………. | *Provide a draft copy of the Joint Venture Agreement or alternatively the memorandum of understanding* |
|  | | If a Joint Venture, name of Lead Partner |  |  |
|  | | *For joint ventures, each joint venture shall furnish Legal Status separately* | | |
|  | | **Name (Lead partner)** |  | *Provide certified copies and label as attachment to Clause 4.1(a)* |
|  | | Legal status |  |
|  | | Place of registration |  |
|  | | Principle place of business |  |
|  | | Written power of attorney of the signatory to the Bid | *Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 5.1* | |
|  | | VAT Registration Number |  | |
|  | | **Name (Partner 2)** |  | *Provide certified copies and label as attachment to Clause 4.1(a)* |
|  | | Legal status |  |
|  | | Place of registration |  |
|  | | Principle place of business |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Written power of attorney of the signatory to the Bid | *Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 4.1(a)* | |
|  | VAT Registration Number |  | |
|  | **Name (Partner 3)** |  | *Provide certified copies and label as attachment to Clause 4.1(a)* |
|  | Legal status |  |
|  | Place of registration |  |
|  | Principle place of business |  |
|  | Written power of attorney of the signatory to the Bid | *Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 4.1(a)* | |
|  | VAT Registration Number |  | |
| **4.2(a)** | **CIDA Registration** |  | *Provide certified copies and label as attachment to Clause 4.2(a)* |
|  | Registration number |  |
|  | Grade |  |
|  | Specialty |  |
|  | Expiry Date |  |

**APPENDIX 2A - FINANCIAL STATEMENT**

Summary of assets and liabilities based on the audited financial statements for the any three financial years (Current statement may be unaudited) with the last five years together with the Financial Performance as indicated in the following schedule shall be submitted.

If the business has not been in operation for three years following schedule shall be submitted for the period that the business has been in operation together with the aforesaid financial statements.

Bidders whose financial capability is marginally less to undertake this bid may show credit facilities available to them from a Bank.

# Financial performance for the any three (3) financial years within the last five (5) years

|  |  |  |  |
| --- | --- | --- | --- |
| Year | xxxx | xxxx | xxxx |
| Turnover from Contracting |  |  |  |
| Fixed Assets (FA) |  |  |  |
| Current Assets (CA) |  |  |  |
| Current Liabilities (CL) |  |  |  |
| Long Term Liabilities (LL) |  |  |  |
| Net Worth =Total Assets – Total Liabilities |  |  |  |
| Current Ratio = Current Assets Current Liability |  |  |  |
| Liquidity Ratio = Current Assets(except stock)Current Liability |  |  |  |
| Gearing Ratio = Debt Capital x 100 Total Capital Employed |  |  |  |
| Turnover x 100  Total Operating Assets |  |  |  |
| Net Profit x 100  Total Assets |  |  |  |

Note: Above details shall be supported with Audited Financial Statements.

**APPENDIX 2B – REVOLVING CREDIT LINE FACILITY**

Date : ………..

Name of Bidder : …………………………………..

Details of Commercial Banks providing revolving line of credit facilities.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the**  **Bank** | **Amount of**  **Credit Line**  **(Rs.ML)** | **Address** | **Contact**  **Telephone**  **No.** | **Contact Name**  **and Title** |
|  |  |  |  |  |

**Note : Attach original letters issued from commercial banks addressed to the NWSDB,**

**confirming the revolving line of credit facilities given to the Bidder.**

If prequalification is done, bidders are required to include information subsequent to that submitted with the prequalification application

………………………………….

Signature of Bidder/Authorized Representative

Company Seal :

**APPENDIX 2C- Authorization to obtain References from Bankers**.

**BIDDER SHALL FILL THIS FORM AND PROVIDE WITH THE BID**

…….………… *[Bidder’s Name]*

………………….........*[Address]*

………………………………….

..……………………………….

Manager …………………….. *[Name of Bank]*

………………..……………….*[Address]*

…………………………………………

…………………………………………

Dear Sir,

I hereby Authorize the National Water Supply & Drainage Board, on behalf of the Procurement Committee, to seek references of Bank details in order to evaluate the financial statues of our company M/s ……………………………………………………………………

*……………………………………………………………………….[Bidders Name & Address]* in connections with the ……………………………………………………… *[Contract Name &Contract Number]* bid, submitted by us.

Yours faithfully,

………………………………..

………………………………..

Authorized officer of the Bidder.

Note : If there are more than one bank given, separate letters should be submitted for each Bank.

**APPENDIX 2D- Pending litigation**

**Note:** Each Bidder or member of a JV must fill in this form

|  |  |  |  |
| --- | --- | --- | --- |
| Pending Litigation | | | |
| **No pending litigation in accordance with ITB Clause 4.1 (Qualification Requirement).**  **Pending litigation in accordance with ITB Clause 4.1 (Qualification Requirement).** | | | |
| **Year** | **Matter in Dispute** | **Value of Pending Claim in LKR/US$ Equivalent** | **Value of Pending Claim as a Percentage of Net Worth** |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |

*Name of the Bidder / Joint Venture partner if applicable*……………………

**APPENDIX 3A - DETAILS OF ONGOING PIPE LAYING WORKS for last FIFTEEN years (FOR CIVIL WORKS)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Name and Address of Employer** | **Name and details of Contract** | **Contract Price** | **Contract Period** | **Date of award** | **Current progress** | | **Annual value of work done**  **Rs.** | **% Time lapsed from date of commence-ment** | **Remarks** |
| **Physical %** | **Financial (Rs.)** |
| **Contracts under NWSDB** | | | | | | | | | | |
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| **Contracts with Other Organizations** | | | | | | | | | | |
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**Note: Bidder shall submit awarding letters, current performance certification from relevant NWSDB ongoing projects and other certificates from clients for ongoing works for the proof of above furnished details.**

**Separate sheets for each year shall be used.**

**APPENDIX 3 B - DETAILS OF COMPLETED PIPE LAYING WORKS WITHIN THE LAST FIFTEEN YEARS (FOR CIVIL WORKS)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Name and Address of Employer** | **Name and details of Contract** | **Main or Sub-Contractor** | **Contract**  **value** | **Contract Period** | **Date of award** | **Annual value of work done**  **Rs.** | **Complete date** | | **Reasons for delay** |
| **original** | **actual** |
| **Contracts under NWSDB** | | | | | | | | | | |
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| **Contracts with Other Organizations** | | | | | | | | | | |
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**Note: Bidder shall submit awarding letters, end user certificates, completion certificates and other certificates from clients for completed works for the proof of above furnished details.**

**Separate sheets for each year shall be used.**

**APPENDIX 3C - DETAILS OF ONGOING OTHER WORKS (EXCLUDING SIMILAR WORKS) WITHIN THE LAST**

**FIFTEEN YEARS (FOR CIVIL WORKS)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Name and Address of Employer** | **Name and details of Contract** | **Contract Price** | **Contract Period** | **Date of award** | **Current progress** | | **Annual value of work done**  **Rs.** | **% Time lapsed from date of commence-ment** | **Remarks** |
| **Physical %** | **Financial (Rs.)** |
| **Contracts under NWSDB** | | | | | | | | | | |
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| **Contracts with Other Organizations** | | | | | | | | | | |
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**Note: Bidder shall submit awarding letters and other certificates from clients for ongoing works for the proof of above furnished details.**

**Separate sheets for each year shall be used.**

**APPENDIX 3D - DETAILS OF COMPLETED OTHER WORKS (EXCLUDING SIMILAR WORKS) WITHIN THE LAST**

**FIFTEEN YEARS(FOR CIVIL WORKS)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Name and Address of Employer** | **Name and details of Contract** | **Main or Sub-Contractor** | **Contract**  **value** | **Contract Period** | **Date of award** | **Annual value of work done**  **Rs.** | **Complete date** | | **Reasons for delay** |
| **original** | **actual** |
| **Contracts under NWSDB** | | | | | | | | | | |
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| **Contracts with Other Organizations** | | | | | | | | | | |
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**Note: Bidder shall submit awarding letters, end user certificates, completion certificates and other certificates from clients for completion works for the proof of above furnished details.**

**Separate sheets for each year shall be used.**

**APPENDIX 4A - DETAILS OF CONTRACT MANAGEMENT AND KEY TECHNICAL STAFF**

**Note:**

1. In case of Engineers and Technical officers Bio-data should be submitted.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Category** | **Name and**  **Qualifications** | **Experience in years** | **No. proposed** | |
| **By NWSDB** | **By Contract** |
| 1.  2.  3.  4.  5.  6.  7. | Contract Manager / Site Manager  Planning Engineer  QA/QC Engineer  Engineer (Civil)  Engineer (Mechanical)  Engineer (Electrical)  Quantity Surveyor |  |  |  |  |
| 8. | Technical Officers |  |  |  |  |
| 9. | Any Other services required by the Contractor for the Contract  1. Specialist Services  2.  3.  4. |  |  |  |  |

Revised on 06-11-2020

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **APPENDIX 4B – TIME SCHEDULE FOR KEY STAFF** | | | | | | | | | | | | | | | | | | |
|  |  |  | Months (in the form of a Bar Chart) | | | | | | | | | | | | | | | |
| **Name** | **Position** | **Activities** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **Number of Months** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Full-time:  Part-time: **…………….**

APPENDIX 5A - SCHEDULE OF CONTRACTOR’S EQUIPMENT PROPOSED

**FOR PIPE LAYING**

**Note:**

1. The Bidder should declare the actual plant and equipment that he proposes to use for the execution of the works. These plant and equipment should be in usage for not more than five years after their first purchase/use.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Description** | **Minimum**  **No. Provide by the Contractor** | **Minimum Period Proposed** | **Remarks (hired/own)** |
| 1. | Excavator/ Loader 1-2 m3 |  |  |  |
| 2. | Hand Rammers |  |  |  |
| 3. | Soil Compactor – Mechanical ½ ton |  |  |  |
| 4. | Hand Roller 2 – 3 ton |  |  |  |
| 5 | Dumper minimum capacity 1 m3 |  |  |  |
| 6. | Concrete mixer complete with scales etc. 0.25 – 0.5 m3 |  |  |  |
| 7 | Concrete vibrator 38mm dia. |  |  |  |
| 8. | Portable Air compressor complete with hose and pneumatic tools minimum capacity 2.83 m3 (100 cu.ft) per minute and pressure 70 kg/cm2 (100 psi) |  |  |  |
| 9.  10. | Mobile crane up to 5 ton  Portable welding set 500 A capacity complete with welding accessories. |  |  |  |
| 11. | Generating Set up to 4 kw |  |  |  |
| 12. | Bitumen sprayer up to 6 ton |  |  |  |
| 13 | Water Tanker 4 – 6 m3 |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Description** | **Minimum**  **No. Provide by the Contractor** | **Minimum Period Proposed** | **Remarks (hired/own)** |
| 14 | Water Pump (complete with hoses etc.) 100 ft3/min |  |  |  |
| 15 | Rubber Roller up to 5 ton |  |  |  |
| 16 | Truck with Tipper 3 – 8 ton |  |  |  |
| 17. | Bar bending Equipment. |  |  |  |
| 18. | Engineer’s Level |  |  |  |
| 19. | Theodolite. |  |  |  |
| 20. | Shoring |  |  |  |
| 21. | Pressure testing equipment |  |  |  |
| 22.  ….  ….  …. | Asphalt Cutter  ...........................  ..............................  .............................. |  |  |  |

Note:

1. The Bidder shall submit a documentary evidence for machinery to be

hired/lease for the Contract.

APPENDIX 5B - SCHEDULE OF CONTRACTOR’S EQUIPMENT PROPOSED

**FOR CIVIL CONSTRUCTION**

**Note:**

1. Bidder should declare the actual plant and equipment that he proposes to use for the execution of the works. These plant and equipment should be in usage for not more than five years after their first purchase/use.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Item** | **Description** | | **Minimum**  **No. Provide by the Contractor** | | **Minimum Period Proposed** | | **Remarks (hired/own)** | |
| 1. | Excavator/ Loader 1-2 m3 | |  | |  | |  | |
| 2. | Hand Rammers | |  | |  | |  | |
| 3. | Soil Compactor – Mechanical ½ ton | |  | |  | |  | |
| 4. | Hand Roller 2 – 3 ton | |  | |  | |  | |
| 5 | Dumper minimum capacity 1 m3 | |  | |  | |  | |
| 6 | Steel Wheel Roller up to 4 ton | |  | |  | |  | |
| 7. | Concrete mixer complete with scales up to 0.25 | |  | |  | |  | |
| 8 | Concrete mixer complete with scales etc… 0.25 - 0.5 m3 | |  | |  | |  | |
| 9 | Concrete mixer complete with scales over 0.5 m3 | |  | |  | |  | |
| 10 | Concrete vibrator 38mm dia. | |  | |  | |  | |
| 11 | Portable Air compressor complete with hose and pneumatic tools minimum capacity 2.83 m3 (100 cu.ft) per minute and pressure 70 kg/cm2 (100 psi) | |  | |  | |  | |
| 12  13  14 | Mobile crane up to 2 ton  Mobile crane up to 5 ton  Lorry / Truck 5 ton capacity | |  | |  | |  | |
| **Item** | | **Description** | | **Minimum**  **No. Provide by the Contractor** | | **Minimum Period Proposed** | | **Remarks (hired/own)** | |
| 15 | | Portable welding set 500 A capacity complete with welding accessories. | |  | |  | |  | |
| 16 | | Generating Set up to 4 kw | |  | |  | |  | |
| 17. | | Bitumen sprayer up to 6 ton | |  | |  | |  | |
| 18 | | Road Roller 6 –10 ton | |  | |  | |  | |
| 19 | | Water Tanker 4 – 6 m3 | |  | |  | |  | |
| 20 | | Water Pump (complete with hoses etc.) 100 ft3/min | |  | |  | |  | |
| 21 | | Rubber Roller up to 5 ton | |  | |  | |  | |
| 22 | | Pneumatic Roller 10 ton | |  | |  | |  | |
| 23 | | Truck with Tipper 3 – 8 ton | |  | |  | |  | |
| 24 | | Bar-bending Equipment | |  | |  | |  | |
| 25 | | Engineer’s Level | |  | |  | |  | |
| 26  27 | | Theodolite.  Welding Plant | |  | |  | |  | |
|  | | 1m x 1m x 1 m scaffolding units with diagonal ties, bends, base plates, connecting couplings, clamps etc. made of 48 mm dia. DI tubes or scaffolding units equivalent to above | |  | |  | |  | |
| 28  29  30  31  32  …. | | Shoring  Power Analyser  Insulation Resistance Tester  Earth Resistance Tester  Lugging Tool  ................. | |  | |  | |  | |

Note:

1. The Bidder shall submit a documentary evidence for machinery to be hired/lease for the Contract

**APPENDIX 6 - WORK PROGRAMME PROPOSED BY THE CONTRACTOR**

Scheme : *(To be filled the design Engineer)*

Contract No : *(To be filled the design Engineer)*

Contractor :

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Construction Activity** | **Programme (Months)**  *(1st ,2nd , etc… are months from the start date)* | | | | | | | |
| **1st** | **2nd** | **3rd** | **4th** | **5th** | **6th** | **7th** | **8th** |
| *Design Engineer should provide major*  *components of the scheme.* |  |  |  |  |  |  |  |  |

Note : Contractor shall submit the predicted cash flow based on the work programme.

**APPENDIX 7 - BIDDER’s Authorization to sign the Contract**

[The Bidder shall require to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letter head of the Bidder and should be signed by a person with the proper authority to sign documents that are binding on the Bidder. The bidder shall include it in its bid].

Date :*[insert date (as day, month and year) of Bid Submission]*

No. : *[insert Contract number]*

Chairman,

National Water Supply & Drainage Board,

Galle Road,

Ratmalana, Sri Lanka.

**For ……………………………………………... of Water Supply Scheme**

**Contract No. …………………………………..**

We …………………………………………*[insert complete name of the Bidder]*, of ……………………………………….…………*[insert full address of Bidder],* do hereby authorize …………….………………………….. *[insert complete name of Bidders authorize officer who signs the Contract]* to submit a bid on behalf of our company and to subsequently negotiate and sign the Contract.

Specimen Signature of the Authorized officer to sign the Contract…………………………………. ………………………………………………………

Signed : …………………………………*[insert signature(s) of authorized representative(s) of the Bidder]*

Name : ………………………………………………………..*[insert complete name(s) of authorized representative(s) of the Bidder]*

Title : …………………………………….. *[insert title]*

Duly authorized to sign this Authorization on behalf of : ……………………………*[insert complete name of Bidder]*

This is to certify that the seal and signatures of legal representative and authorized person affixed to power of attorney attached hereto are found to be authentic.

………………………………

Signature of Attorney at Law

……………………………..

Seal of Attorney at Law

In the place of (…………………………………………………………………………….. address)

Date ……………………

# APPENDIX 8 - LIST OF MANUFACTURERS DETAILS FOR MATERIALS TO SUPPLY TO THIS CONTRACT

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Name of the Material (item/s) | Manufacturer’s Name | Manufacturer’s **Address** | NWSDB PQ item or not | Remarks |
|  |  |  |  |  |  |
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# APPENDIX 9–FUNCTIONAL GUARANTEE FOR DI/HDPE PIPES, FITTINGS, SPECIALS, RUBBER RINGS AND ACCESSORIES

[Address of the Manufacturer]

…………………………………

…………………………………

…………………………………

Chairman,

National Water Supply & Drainage Board,

Galle Road,

Ratmalana, Sri Lanka.

**For ……………………………………………... of Water Supply Scheme**

**Contract No. …………………………………..**

We ………………………………………………………………………………………*(Complete Name & Address of the PE/DI pipe manufacturer)* hereby guarantee that,

1. The Supply of Pipes for the above Contract shall be manufactured at the manufacturing factory at ……………………………………………………………... ………………………………………………*(Address of the manufacturing factory)*.

2. The Supply of Pipe Fittings for the above Contract shall be manufactured at the manufacturing factory at …………………………………………………………... …………………………………………..…… *(Address of the manufacturing factory)*.

3. The Supply of Rubber Rings for the above Contract shall be manufactured at the manufacturing factory at ……………………………………………………………... …………………………………………...… *(Address of the manufacturing factory)*.

4. The Supply of Couplings for the above Contract shall be manufactured at the manufacturing factory at ……………………………………………………………... ……………………………………………….. *(Address of the manufacturing factory)*.

5. The Supply of Restraint Joints shall be manufactured at the manufacturing factory at …………………………………………………………………………………………... …………………………………………….. *(Address of the manufacturing factory)*.

We , Manufacturer of DI/PE pipes ,hereby guarantee that,

1. DI/HDPE pipes, fittings and rubber rings supplied under the Contract shall fit properly and adequately to ensure leak proof pipeline installations under all working conditions.
2. We will unconditionally undertake to replace any material rejected by the Engineer within the time period as agreed with the Engineer during implementation stage at no additional cost to NWSDB ensuring the timely implementation of the project.
3. We will unconditionally undertake that the Nominated Inspection Agency issues a certificate ensuring that DI/HDPE pipes, fittings and rubber rings inspected shall fit properly and adequately to ensure leak proof pipeline installations under all working conditions upon shipment.

…………………………….

Signature of the Authorized

Officer on behalf of the Pipe manufacturer

Name : ……………………………………………………….

Capacity : ……………………………………………………….

Witness :

1 Signature : ……………………………………………………………

Name : ……………………………………………………………

Capacity : ……………………………………………………………

Address : ……………………………………………………………

2 Signature : ……………………………………………………………

Name : ……………………………………………………………

Capacity : ……………………………………………………………

Address : ……………………………………………………………

**APPENDIX 10- Manufacturer’s Authorization to sign the ContractAND CONFIRMATIONOF CAPABILITYOF PRODUCTION of MaterialS & Supply of Materials according to Delivery Schedule.**

[Address of the Manufacturer]

…………………………………………..

………………………………………….

Chairman, ………………….Procurement Committee,

…………………………………………,

………………………………………....,

………………………………………….

**For ……………………………………………... of Water Supply Scheme**

**Contract No. …………………………………..**

We ………………………………………… [*insert complete name and address of Manufacturer*], who are official manufacturers of …………………………. [*insert relevant Materials and Accessories*] having factories at ………………………………*[insert full address of Manufacturer’s factories],* do hereby authorize …………….…………………. *[insert complete name of Bidder]* to supply to this Contract the purpose of which is to provide ………………………………. [*insert relevant Materials and Accessories*] manufactured by us and to subsequently negotiate and sign the Contract.

We, confirm that we have sufficient production capacity to produce the quantity of aforesaid Materials to supply to this Contract and shall deliver them according to the delivery schedule indicated in the bid.

We hereby extend our full guarantee and warranty in accordance with Clause 21.9 of the General Conditions of Contract, with respect to the …………………………. [*insert relevant Materials and Accessories*] offered by the above firm.

Signed : …………………………………*[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name : ………………………………………………………..*[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title : …………………………………….. *[insert title]*

Duly authorized to sign this Contract on behalf of : ……………………………*[insert complete name of Manufacturer]*

……………………………..

Seal of the Company.

**APPENDIX 11 - Manufacturer’s awareness of the TOR FOR Independent Inspection Agency**

[Address of the Manufacturer]

…………………………………………..

………………………………………….

………………………………………….

Chairman, …………………… Procurement Committee,

National Water Supply & Drainage Board,

Galle Road,

Ratmalana, Sri Lanka.

**For ……………………………………………... of Water Supply Scheme**

**Contract No. …………………………………..**

We, …………………………………………………………………….[*name of manufacturer*] of ……………………………………………………...…………………………………………………………….……………………………………………………….*[address of manufacturer]*confirm that we have noticed that

a) Appendix 13 – TOR for Independent Inspection Agency.

b) Clause 21.3 of Contract Data in Volume 2.

……………………………................... ………………………….

Authorized Officer of the Manufacturer. Seal of the Company.

Name :……………………………………

**APPENDIX 12 - Manufacturer’s Warranty for the MATERIALs supplied**

**under the Contract**

[Address of the Manufacturer]

…………………………………………..

………………………………………….

Chairman,

National Water Supply & Drainage Board,

Galle Road,

Ratmalana, Sri Lanka.

**For ……………………………………………... of Water Supply Scheme**

**Contract No. …………………………………..**

We, ……………………………………………………………….[*name of manufacturer*] of ………………………………………………………………………………………………………………….…………………………………..…….*[address of manufacturer]*warrant that the ………………………………………. [*insert the Materials and accessories*] supplied under this Contract are new, unused, of the most recent or current models and have incorporated all recent improvements, and no defects arising out of the design, material or workmanship from any act that may be develop under normal use of the supplied Materials.

If there is any defect during the warranty period specified in the Clause 21.9 of the General Conditions of Contract, we shall attend to repair or replace the defective Materials with all reasonable speed without any cost to the Purchaser.

………………………………………… ..…………….………

Authorized Officer of the Manufacturer. Seal of the Company.

Name :…………………………………… Date :…………………..

In the capacity of …………………………

This is to certify that the seal and signatures of authorized officer of the manufacturer affixed to Manufacturer’s warranty, are found to be authentic.

………………………………

Signature of Attorney at Law

……………………………..

Seal of Attorney at Law

In the place of (…………………………………………………………………………….. address)

Date ……………………

**Appendix 13A - TOR FOR INDEPENDENT INSPECTION AGENCY for DI pipes & fittings**

**(Appendix 13A- 1 of 6)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per Specification** |
| **1.**  **1.1** | **Physical Proportion**  **Socket & Spigot Pipes**  Pipe wall thickness  External Diameter  Internal Diameter  Length of Pipe  Socket Length  Chamfering of Spigot end  C - Class  Grooves in the Socket.  Thickness of Internal Cement lining  Smoothness of Internal Cement lining.  External Zinc Coating.  Thickness & Weight of external Zinc Coating.  Compressive Strength of the Cement Lining.  Curing period of Pipes after Cement Lining.  Smoothness of external Bitumen Coating. |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **(Appendix 13A-2of 6)** | | | | |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per Specification** |
| **1.2**  **1.3** | Flanged Pipes  Flange thickness  Flange diameters  No. of bolt holes  Length of pipe  Wall Thickness of Pipe  C – Class of Pipe  Cleanliness of Flange  Raised Face or Flat Face  Smoothness of Raised Face/Flat Face  Integrally casted or Factory Welded  Condition of weld if welded.  Thickness of Internal Cement lining  Smoothness of Internal Cement Lining.  External Zinc Coating.  Thickness & Weight of external Zinc Coating  Method of Application of Bitumen Coating.  Compressive Strength of the Cement Lining  Curing period of Pipes after Cement Lining.  Smoothness of external Bitumen Coating  **Socketed Bends**  Socket Diameter  Length of Bend  C -Class of Bend  Wall Thickness of bend  Grooves in the Socket. |  |  |  |

**(Appendix 13A-3 of 6)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per Specification** |
| **1.4** | Thickness of Internal Cement lining  Smoothness of Internal Cement lining  External Zinc Coating  Thickness & Weight of external cement coating  Method of Application of Bitumen Coating  Compressive Strength of the Cement Lining  Curing period of Bends after Cement Lining  Smoothness of external Bitumen Coating.  **Flanged Bends**  Flange Diameter  Length of Bend  Thickness of Flange  No. of Bolt holes  Wall Thickness of Pipe  Raised Face or Flat Face  Smoothness of Raise Face/ Flat Face  Integrally Casted / Factory welded condition of  Weld if welded  C – class  Thickness of Internal Cement lining  Smoothness of Internal Cement lining  External Zinc Coating  Thickness & Weight of External Coating  Compressive Strength of the Cement Lining. |  |  |  |

**(Appendix 13A-4 of 6)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per Specification** |
| **1.5** | Method of Application of Bitumen Coating  Compressive Strength of the Cement Lining  Curing period of Bends after Cement  Smoothness of external Bitumen Coating.  **Tees**  **Socketed Tees**  Length of Tees  Length of Branch  Diameter of Tee (all faces)  Wall Thickness of Tees  Wall Thickness of Branch  Condition of grooves in socket  C – Class  Thickness of Internal Cement lining  Smoothness of Internal Cement lining.  External Zinc Coating  Thickness & Weight of External Zinc Coating  Method of Application of Bitumen Coating  Compressive Strength of the Cement Lining  Curing period of Tees after Cement Lining  Smoothness of external Bitumen coating. |  |  |  |

**(Appendix 13A-5 of 6)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per Specification** |
| **1.6** | **Flanged Tees**  Length of Tee  Length of Branch  Diameter of Tee (all Branches)  Wall Thickness of Tee  Diameter of Flanges (All faces)  No of Bolt holes  Flange thickness  Integrally Casted or Factory Welded  Condition of weld if welded  Flanges of Raised Face or Flat Face  Smoothness of Raised Face/ Flat Face  C – Class  Thickness of Internal Cement lining  Smoothness of Internal Cement lining.  External Zinc Coating  Thickness & Weight of external Zinc Coating  Method of Application of Bitumen Coating  Compressive Strength of the Cement Lining  Smoothness of external Bitumen coating. |  |  |  |

**(Appendix 13A-6 of 6)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per Specification** |
| **2.**  **2.1** | **Strength &Metallurgical Properties**  **DI Pipes & Fittings**  1. Method of Casting Metallurgical Properties  ……………. Tensile Strength  Hardness minimum Elongation Positive  Internal Hydrostatic Pressure Negative  Internal Pressure  2. Manufacturing Standards of Pipes &  Fittings.  3. Lubricant make & seal type of designation  of lubricant.  4. Manufacturing of lubricant  5. Manufacturing Standard of lubricant  Joint Rings/ Gaskets  6. Materials of Joint Ring/ Gasket  7. Manufacturing Standards of Joint Ring/  Gasket  8. Hardness of materials of Joint Ring/  Gasket.  9. Seal Type designation of Joint Ring/  Gasket Nuts & Bolts.  10. Materials of Nuts & Bolts Washers  11. Manufacturing Standard of Nuts & Bolts  12. Number of Washers/ Bolt. |  |  |  |

**APPENDIX 13B - TOR FOR INDEPENDENT INSPECTION AGENCY FOR PE PIPES & FITTINGS**

**(Appendix 13B-1 of 4)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per specification** |
| 1. | **Physical Proportion/properties** |  |  |  |
| 1.1 | **Socket & Spigot Pipes** |  |  |  |
|  | Pipe wall thickness  External Diameter  Length of Pipe  SDR category  PE designation  Elongation at Break for e <5 m  5m < e <12 mm  e >12 m  Melt Mass flow rate (MFR)  Oxidation Induction time  Ovalty  Density  Effect on water quality |  |  |  |
| 1.2 | **Flanges** |  |  |  |
|  | Flange thickness  Flange diameters  No. of bolt holes  Cleanliness of Flange  Raised Face or Flat Face  Smoothness of Raised Face/Flat Face  Integrally casted or Factory Welded  Condition of weld if welded  Elongation at Break for e <5 m  5m < e <12 mm  e >12 m  Ovalty  Melt Mass flow rate (MFR)  Oxidation Induction time  Density  Effect on water quality |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per specification** |
| 1.3 | **Bends** |  |  |  |
|  | Diameter  Length of Bend  SDR  PE designation  Wall thickness of bend  Melt mass flow rate (MFR)  Oxidation induction time  Cohesive resistance  Tensile strength  Ovalty  Density  Effect on water quality |  |  |  |
| 1.4 | **Tees** |  |  |  |
|  | Length of tees  Length of Branch  Diameter of tee (all faces)  Wall thickness of Tees  Wall thickness of Branch  SDR  PE Designation  Melt mass flow rate (MFR)  Oxidation induction time  Density  Ovalty  Tensile strength  Effect on water quality  Cohesive resistance |  |  |  |
| 2. | **Strength & Mechanical Properties** |  |  |  |
| 2.1 | **HDPE Pipes & Fittings** |  |  |  |
|  | Hydrostatic strength at 20 0C  Hydrostatic strength at 80 0C  Manufacturing Standards of Pipes & Fittings. |  |  |  |

**(Appendix 13B-2 of 4)**

**(Appendix 13B-3 of 4)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per specification** |
| 3. | **Accessories** |  |  |  |
| 3.1 | **Steel flange converter** |  |  |  |
|  | Dimension  Physical appearance  Ovality |  |  |  |
| 3.2 | **Slim flange assembly** |  |  |  |
|  | Dimension  Physical appearance  Ovality |  |  |  |
| 3.3 | **Nuts & Bolts** |  |  |  |
|  | Dimensions  **Tensile strength**   * 1. yield stress or stress at permanent set limit of 0.2%   2. percentage elongation after fracture   3. stress under proof load   4. strength under wedge loading   5. hardness   thickness of galvanized coating  Ovality |  |  |  |
| 4. | **Joint rings & Gaskets** |  |  |  |
|  | Appearance & finish  Tensile strength  Elongation of break  Compression hardness  Micro biological deterioration |  |  |  |
| 4. | **Material Characteristics** |  |  |  |
|  | Compound Density  Carbon black content (black compound) % by mass  Carbon Black dispersion (black compound) grade range |  |  |  |
| 5. | **Quality Assurance** |  |  |  |
| 5.1 | **Raw Materials (R/M)**  R/M received and kept separately in quarantine area on R/M test report received (Report Ref. No.) on |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | | **Test Performed** | **Results** | **Acceptability as per specification** |
| 5.2 | **Manufacture**  Date and Time of commencement of batch  Date and Time of completion of batch  Date batch sent to quarantine area |  |  |  |
| 5.3 | **Physical/Mechanical Checking (by In-House Q/A Department and Laboratory)**   1. Dimension and appearance checking 2. Heat reversion test 3. General test 4. Batch test 5. Tensile test |  |  |  |
| 5.4 | Pipe sample sent for chemical test |  |  |  |
| 5.5 | Pipes passed by inspector for release to general storage area |  |  |  |
| 5.6 | General storage area for packing  Wrapping/packing completed and labelled and separately stored, awaiting chemical test results for pipe. |  |  |  |
| 5.7 | **Verification of Quality**  Chemical tests results of pipe received. |  |  |  |
| 5.8 | Separation of coils pipes not complying With BS |  |  |  |
| 5.9 | Test certificate submitted for inspection agent/NWSDB’s approval |  |  |  |
| 5.10 | Purchaser’s approval received for shipment |  |  |  |
| 5.11 | **Containerisation & Final Approval**  Pipe stocks loading in to container & passed by Q/A Department & Inspection Agent |  |  |  |
| 5.12 | Final approval for transport & shipment |  |  |  |

**(Appendix 13B-4 of 4)**

**APPENDIX 13C - TOR FOR INDEPENDENT INSPECTION AGENCY FOR DI VALVES, MANHOLE COVERS AND SURFACE BOXES**

**(Appendix 13C-1 of 7)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity** | **Test performed** | **Results** | **Acceptability as per specification** |
| 1. **GATE/SLUICE VALVES**    1. Performance test – 2. Operate Fully Closed to Fully Open – times 3. Operate Fully open to Fully close – times    1. Leakage test for internal pressure    2. Material   Body  Spindle  Metal faces and seal   * 1. Length between flanges   1.5 End flanges -  Pressure Rating  Dimensions  Bolt Circle dia.  1.6 Gear Ratio  Unbalanced head  Seat test pressure  Body test pressure   * 1. Internal protection coating   2. External protective finish coating  1. **BUTTERFLY VALVES**    1. Performance test – 2. Operate Fully Closed to Fully Open – times 3. Operate Fully open to Fully close – times    1. Leakage test for internal pressure    2. Leakage test for external pressure    3. Hydrostatic test    4. Seat tightness test   2.7 Material  Valve body  Valve disc  Valve seat  **(Appendix 13C-2of 7)**  Shaft  Shaft seals  2.8 Face to face dimensions of the valves  2.9 End Flanges  Pressure rating  Dimensions  Bolt circle dia.  2.10 Gear ratio of gearing  Unbalanced head  Seat test pressure  Body test pressure  2.11 Internal protective finish:  Material  Thickness  2.12 External protective finish:  Material  Thickness  **3**. **AIR VALVES**  3.1. Performance test –   1. Operate Fully Closed to Fully Open – times 2. Operate Fully open to Fully close – times   3.2. Body strength test  3.3. Leakage test  3.4. Material of Ball (Stainless Steel  or Plastic)  3.5. Flanges (if applicable)  Pressure rating  Standard Dimensions  Bolt circle dia.  3.6 Seat test pressure  3.7 Body test pressure  3.8 Internal protective finish  3.9. External protective finish  **4 CHECK VALVES**  **(Appendix 13C-3of 2)**  4.1. Performance test –   1. Operate Fully Closed to Fully Open – times 2. Operate Fully open to Fully close – times   4.2 Is this non Slam  4.3 Is this Spring loaded  4.4 Material  Valve body  Hinge pin and bushes  Disc  Disc encapsulating material  4.5. End Flanges  Pressure rating  Dimensions  Bolt circle dia.  4.6. Face to face dimensions of the valve  4.7. Seat test pressure  4.8. Body test pressure  4.9. Internal protective finish  4.10. External protective finish  **5. PRESSURE REDUCING VALVES**  5.1 Material  Main valve  Body  Internal valve  Indicator rod  Relay Valve  Body  Spindle  Diaphragm.  Spring  5.2 Length between flanges  5.3 End Flanges  Pressure rating  Dimensions  Bolt circle dia.  **(Appendix 13C-4of 7)**  5.4 Minimum running pressure difference  5.5 Minimum control pressure  5.6 Internal protective finish  5.7 External protective finish  **6. PRESSURE SUSTAINING/RELIEF VALVES**   * 1. Material   Main valve  Body  Internal valve  Indicator rod  Relay Valve  Body  Spindle  Diaphragm  Spring  6.2. Length between flanges  6.3 End Flanges  Pressure rating  Dimensions  Bolt circle dia.   * 1. Internal protective finish   2. External protective finish   **7. FLOW CONTROL VALVES**  7.1 Material  Main valve  Body  Internal valve  Indicator rod  Relay Valve  Body  Spindle  Diaphragm  **(Appendix 13C-5of 7)**  Spring  7.2. Length between flanges   * 1. End Flanges   Pressure rating  Dimensions  Bolt circle dia.   * 1. Minimum flow   2. Constant flow   3. Internal protective finish   4. External protective finish   **8. ALTITUDE VALVES**  8.1. Material  Main valve  Body  Internal valve  Indicator rod  Relay Valve  Body  Spindle  Diaphragm  Spring  8.2 Length between flanges  8.3 End Flanges  Pressure rating  Dimensions  Bolt circle dia.  8.4. Internal protective finish  8.5. External protective finish  **9. BALL FLOAT VALVES** 9.1. Body test pressure9.2 End FlangesPressure rating Dimensions  Bolt circle dia. 9.3 Material **(Appendix 13C-6of 7)**  Valve Body  Float  Lever and links 9.4 Body test pressure9.5 Close assembly test pressure **10. FLAP VALVES**   MaterialFrame and door Sealing  Hinge pin  Links Flanges Pressure rating  Dimensions  Bolt circle dia. 11. FIRE HYDRANTS 11.1 Screw Down Type 11.1.1. Inlet Flanges Pressure rating  Dimensions  Bolt circle dia. 11.1.2 Body test pressure11.1.3 Valve and seat test pressure11.1.4. Internal protective finish11.1.5. External protective finish **11.2. Dry Barrel Type** 11.2.1 No. of outlet nozzles 11.2.2. Nominal diameter 11.2.3 Inlet Flange Pressure rating  Dimensions  Bolt circle dia. 11.2.4. Material, Hardness range of Gaskets11.2.5. Material of Nuts and Bolts **(Appendix 13C-7of 7)**  **12. SURFACE BOXES AND MANHOLE COVERS**   * 1. Material   2. Class   Manhole Covers  Surface Boxes  12.3. Coating |  |  |  |

**APPENDIX 13D - TOR FOR INDEPENDENT INSPECTION AGENCY FOR joint protection Material**

**(Appendix 13D-1 of 1)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No** | **Description** | **Test Results** | **Measurement Value /**  **Observation Comments** |
|  | **General** |  |  |
| 1 | Volatile Organic Compound Content |  |  |
| 2 | Self-Supporting |  |  |
| 3 | Cracking |  |  |
| 4 | Moisture and state limit |  |  |
| 5 | Resistivity to;  Mineral Acid  Alkalis  Salts |  |  |
| 6 | Suitability Climate |  |  |
|  | **Mastic Primer** |  |  |
| 1 | Specific Gravity |  |  |
| 2 | Flash Point |  |  |
|  | **Mastic Paste** |  |  |
| 1 | Specific Gravity |  |  |
| 2 | Flash Point |  |  |
| 3 | Specific Volume |  |  |
| 4 | Maximum Service Temperature |  |  |
| 5 | Solid Content |  |  |
|  | **Mastic Tape** |  |  |
| 1 | Flash Point |  |  |
| 2 | Maximum Service Temperature |  |  |

**APPENDIX 14 - LOCAL ACCREDITED AGENT’S Confirmation OF SUPPLY OF MaterialS according to WORK PROGRAMME.**

***Note: This is to be typed on a company letter heading***

[Address of the Local Accredited Agent]

…………………………………………..

………………………………………….

………………………………………….

Chairman,

National Water Supply & Drainage Board,

Galle Road, Ratmalana.

Sri Lanka.

# Bid for ……………………………… Water Supply Scheme

**Contract No…………………………………….**

We, ………………….…………………………………………………………………[*name of the Local Accredited Agent*] of ……………………………………………………… …………………………………………….……………………………………………………………….…….*(address of the Local Accredited Agent)* confirm that we will Supply & Deliver………………………….. [insert the relevant Materials and accessories] to this Contract to the bidder M/s. ……………………………………………………….*(Name& Address of the bidder)* according to the Work programme.

…………………………….

Authorized Signatory Attested by the Attorney at Law

and the Company Seal

…………………………………..

Signature of the Attorney at Law

Name : ………..……………………………….

In the Capacity of :……………………………… Seal ……………………………

In the place of …………………….…

……………………………...*(address)*

Witnesses :

1 Signature : ……………………………………………………………

Name : ……………………………………………………………

Capacity : ……………………………………………………………

Address : ……………………………………………………………

2 Signature : ……………………………………………………………

Name : ……………………………………………………………

Capacity : ……………………………………………………………

Address : ……………………………………………………………

**APPENDIX 15A- PRE-SHIPMENT INSPECTION OF DI PIPES & FITTINGS**

# BY THE EMPLOYER -CHECK LISTS

**(Appendix 15A-1of 13)**

Name & Location of the Factory

Pipe : - ………………………………………………………………………………

………………………………………………………………………………

Fittings : - ………………………………………………………………………………

….……………………………………………………………………………

Valves : - ..………………………………………………………………………………

..………………………………………………………………………………

Couplings :- …………………………………………………………………………………

…………………………………………………………………………………

Adaptors :- …………………………………………………………………………………

…………………………………………………………………………………

Flanged Pipes : - …………………………………………………………………………………

…………………………………………………………………………………

(Requirement - Pipes and fittings should be manufactured by same manufacturer or manufacturing group.)

Applicable Standards

Manufacturing Standards : (ISO 2531 :2009/BSEN 545: 2010) …………….

Of pipes & Fittings

Manufacturing Standards of

Joint Rings : (BSEN 681-1:1996/ISO 4633:2015) ………….

Quality Assurance Standards : (ISO 9001: 2015) ……………

Parameters to be checked

Markings to casted on, painted or cold stamped

Mechanical Properties, Hardness, Elongation,

Hydrostatic Pressure Tests

Wall Thickness

Length of straight pipes

Straightness

External Coating

Internal Coating

Testing of Welded Flanges

Chemical Composition of Pipes & Fittings (Composition of metals).

Condition of Pipes& Fittings

Warping or shrinkage

Surface or other defects detrimental to functionality : Satisfactory/Unsatisfactory

Handling of pipes, Fittings after production : Satisfactory/Unsatisfactory

Inspection Procedure

Witness testing a sample with Factory QC Team : Yes/No

Witness testing with Independent Inspection Agency : Yes/No

**(Appendix 15A-2of 13)**

**PRE-SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

Mark Yes or No in the Remarks Column as Appropriate Date of Inspection …………

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Technical  Specifications  Clause No. | Description | | Values as per  Specifications | Satisfactory/  Unsatisfactory | | Remarks | |
| GENERAL | | | | | | | |
| Quality  Assurance | Availability of Valid Quality Standard  Certificates | | ISO 9001:2008/2015 |  | |  | |
| Independent  Inspection | Availability of Inspection Agency.  Certificate before Shipment | | - |  | |  | |
| Markings | Pipe Material (Ductile Iron) | | - |  | |  | |
|  | Year of Manufacture (Last Two Digits) | | - |  | |  | |
|  | Manufacturers Identification Mark/Name | | - |  | |  | |
|  | Nominal Diameter in mm | | - |  | |  | |
|  | Class Designation | | - |  | |  | |
|  | Quality Standard & Product Conformity certificate | | - |  | |  | |
|  | Client Identification | | - |  | |  | |
|  | Socket Penetration Lines (2 Lines) | | - |  | |  | |
|  | In case of Fittings, these marks shall appear on the body of each fitting together with its main characteristics such as angle of bend, pressure rating of flange etc. | | - |  | |  | |
| Material Characteristics | | | | | | | |
|  | Mechanical Properties |  | | |  | |  |
|  | Minimum Tensile Strength | 420 N/mm2 | | |  | |  |
|  | Minimum Bending Strength | Table B1 BSEN-545 2010 | | |  | |  |
|  | Modulus of Elasticity | 14- 18 N/mm2 | | |  | |  |
|  | Brinell hardness for pipes | 230HB | | |  | |  |
|  | Brinell hardness for fittings | 250 HB | | |  | |  |

**(Appendix 15A-3of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test Hydrostatic Test | | | | | | | | | | | | |
| Bill No: Item No. & Qty. Sample size:  Description of Item : DI Pipes (SS/DF) Class : Dia. x Length :  Tech Spec Clause No: Reference Standard : BSEN545:2010 - Clause 6.5 & Table 14  ISO 2531:2009 - Clause 6.5 & Table 10 | | | | | | | | | | | | |
| Sample  No | Item of Testi- ng | Pressure class (“C” class)/  Test pressure | Test Condition | | | | | | Deviation | Tolerance  Allowed | Comply? | Remarks |
| Flexible joints | | Push-fit joints | | Flanges & flanged joints | |
| +ve int. pressure | -ve int. pressure | +ve ext. Pressure | Dynamic int. pressure | Flanged joints | Screwed & welded flanges |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| Inspection & Testing Witnessed by | | | | | | | | | | | | |
| Name : 1. Name : 2. | | | | | | | | | | | | |
| Signature: 1. Signature: 2. | | | | | | | | | | | | |
| Date : | | | | | | | | | | | | |

**(Appendix 15A-4of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Length of Straight Pipes and Fittings | | | | | | | |
| Bill No: Item No. & Qty. Sample size:  Description of Item : DI Pipes (SS/DF), Fittings Class : Dia. x Length :  Tech Spec Clause No: Reference Standard : BSEN545:2010 – Clause 4.2.3 & Table 3,4,5,6  ISO 2531 :2009 - Clause 4.2.3 & Tables 2,3,4,5 | | | | | | | |
| Sample  No | Item of testing | Physical/Measured  Value | | Deviation | Tolerance  Allowed | Comply?  (Yes/No?) | Remarks |
| Standard | Measured |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| Inspection & Testing Witnessed by | | | | | | | |
| Name : 1. Name : 2. | | | | | | | |
| Signature: 1. Signature: 2. | | | | | | | |
| Date : | | | | | | | |

**(Appendix 15A-5of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Straightness | | | | | | | |
| Bill No: Item No. & Qty. Sample size:  Description of Item : DI Pipes (SS/DF) Class : Dia. x Length :  Tech Spec Clause No: Reference Standard : BSEN545:2010 – Clause 4.2.4  ISO 2531 :2009 -Clause 4.2.4 | | | | | | | |
| Sample  No | Item of testing | Physical/Measured  Value | | Deviation | Tolerance  Allowed | Comply?  (Yes/No?) | Remarks |
| Standard | Measured |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| Inspection & Testing Witnessed by | | | | | | | |
| Name : 1. Name : 2. | | | | | | | |
| Signature: 1. Signature: 2. | | | | | | | |
| Date : | | | | | | | |

**Appendix 15A–6of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Internal & External Diameter of Pipes & Fittings | | | | | | | |
| Bill No: Item No. & Qty. Sample size:  Description of Item : DI Pipes (SS/DF) , Fittings Class : Dia. x Length :  Tech Spec Clause No: Reference Standard : BSEN545:2010 – Clause 4.2.2  ISO 2531 :2009 - Clause 4.2.1 | | | | | | | |
| Sample  No | Item of testing | Physical/Measured  Value | | Deviation | Tolerance  Allowed | Comply?  (Yes/No?) | Remarks |
| Standard | Measured |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| Inspection & Testing Witnessed by | | | | | | | |
| Name : 1. Name : 2. | | | | | | | |
| Signature: 1. Signature: 2. | | | | | | | |
| Date : | | | | | | | |

**(Appendix 15A-7of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Wall Thickness of Pipes & Fittings | | | | | | | |
| Bill No: Item No. & Qty. Sample size:  Description of Item : DI Pipes (SS/DF), Fittings Class : Dia. x Length :  Tech Spec Clause No: Reference Standard : BSEN545:2010 – clause 4.2.1  ISO 2531 :2009 - Clause 4.2.2 | | | | | | | |
| Sample  No | Item of testing | Physical/Measured  Value | | Deviation | Tolerance  Allowed | Comply?  (Yes/No?) | Remarks |
| Standard | Measured |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| Inspection & Testing Witnessed by | | | | | | | |
| Name : 1. Name : 2. | | | | | | | |
| Signature: 1. Signature: 2. | | | | | | | |
| Date : | | | | | | | |

**(Appendix 15A-8of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Internal Coating ( Strength & Thickness) | | | | | | | |
| Bill No: Item No. & Qty. Sample size:  Description of Item : DI Pipes (SS/DF) , Fittings Class : Dia. x Length :  Tech Spec Clause No: Reference Standard : BSEN545:2010 – Clause 4.4.3 & 4.5  ISO 2531 :2009 - Clause 4.4.2 & 4.5.2 | | | | | | | |
| Sample  No | Item of testing | Physical/Measured  Value | | Deviation | Tolerance  Allowed | Comply?  (Yes/No?) | Remarks |
| Standard | Measured |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| Inspection & Testing Witnessed by | | | | | | | |
| Name : 1. Name : 2. | | | | | | | |
| Signature: 1. Signature: 2. | | | | | | | |
| Date : | | | | | | | |

**(Appendix 15A-9of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test External Coating ( Thickness of Zinc Mass & Paint coating) | | | | | | | |
| Bill No: Item No. & Qty. Sample size:  Description of Item : DI Pipes (SS/DF), Class : Dia. x Length :  & Coating for fittings and Accessories  Tech Spec Clause No: Reference Standard : BSEN545:2010- clause 4.4.2 & 4.5  ISO 2531 :2009 - clause 4.4.1 & 4.5.1 | | | | | | | |
| Sample  No | Item of testing | Physical/Measured  Value | | Deviation | Tolerance  Allowed | Comply?  (Yes/No?) | Remarks |
| Standard | Measured |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| Inspection & Testing Witnessed by | | | | | | | |
| Name : 1. Name : 2. | | | | | | | |
| Signature: 1. Signature: 2. | | | | | | | |
| Date : | | | | | | | |

**(Appendix 15A-10of 13)**

**PRE –SHIPMENT INSPECTION OF DI PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test **Chemical Composition** | | | | |
| Bill No: Item No. & Qty. : Sample size:  Description of Item : Class : Dia. x Length :  Tech Spec Clause No: Reference Standard : BSEN545:2010& ISO 2531 :2009 | | | | |
| Sample  No | Item of testing | Name of the Metal | Available % | Remarks |
| 1 |  | Fe |  |  |
|  |  | C |  |  |
|  |  | Zn |  |  |
|  |  | Cr |  |  |
|  |  | …. |  |  |
|  |  | ….. |  |  |
|  | | | | |
| Microscopic Inspection of DI sample : % of DI | | | |  |
|  | | | | |
| Inspection & Testing Witnessed by | | | | |
| Name : 1. Name : 2. | | | | |
| Signature: 1. Signature: 2. | | | | |
| Date : | | | | |

**(Appendix 15A-11of 13)**

**INSPECTION OF DI PIPES & FITTINGS**

**CHECK LIST**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Technical Specifications**  **Clause No.** | **Description** | **Requirements as per Specifications** | **Satisfactory/**  **Unsatisfactory** | **Remarks** |
| HANDLING OF PIPES AND FITTINGS AFTER PRODUCTION | | |  |  |
|  | Packing |  |  |  |
|  | Handling |  |  |  |
|  | Stacking |  |  |  |
|  | Inspection by Factory/Inspection Authority |  |  |  |
|  | Transport Arrangements within manufacturers Country |  |  |  |
|  | Shipping Arrangements |  |  |  |
|  | Freight Insurance Arrangements |  |  |  |
| CONCLUSION AT THE END OF THE INSPECTION TOUR | | |  |  |
| Total Process of Production, Testing, Packing,  Handling, Insurance and Freight  Arrangements Satisfactory | | |  |  |

**Observations :**

**Signature 1 Signature 2**

**Name & Designation 1: Name & Designation 2:**

**(Appendix 15A -12 of 13)**

**Rubber rings / Gaskets**

**Physical Parameter**

1. Dimensions :…………………..
2. Diameter :…………………..
3. Hardness :………………….
4. Appearance :…………………..
5. Lot Numbers : …………………..

**Quality**

1. Product Conformity certificate
2. ISO 9001:2015 certificate

**Packing Arrangements**

1. Inspection by Independent Inspection Agency : ………….
2. Shipping Arrangements :……………..

**(Appendix 15A -13 of 13)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample No** | **Diameter** | **Thickness mm** | **Hardness** | **Appearance** | **Deviation** | **Tolerance allowable** | **Whether Comply** | **Remarks** |
|  |  |  |  |  |  |  |  |  |

Product conformity certificate available acceptable : ………………..

(witness the original certificate)

ISO 9001;2015 Quality Management System certificate available and acceptable: ……………..

(witness the original certificate)

**APPENDIX 15B - PRE-SHIPMENT/ PRE-delivery INSPECTION OF HDPE PIPES & FITTINGS BYTHE EMPLOYER - CHECK LISTS**

**(Appendix 15B -1 of 7)**

Name & Location of the Factory

Pipe : - …………………………………………………………………………………

…………………………………………………………………………………

Fittings : -…………………………………………………………………………………

…………………………………………………………………………………

(Requirement - Pipes and fittings should be manufactured by same manufacturer or manufacturing group.)

Applicable Standards

Manufacturing Standards : (ISO 4427:2019 EN12201-1 TO 5):2011

Of pipes & Fittings

Manufacturing Standards of

Joint Rings : (EN681-1):1996 …………….

Quality Management System : (ISO 9001: 2015) ……………

Parameters to be checked

Markings

Mechanical Properties

Hydrostatic Pressure Tests

Wall Thickness

Length of straight pipes

Straightness

Testing of Flanges

Joint Rings

Chemical Composition of Pipes & Fittings

Condition of HDPE Pipes & Fittings

Tolerances

Handling of pipes, Fittings after production : Satisfactory/Unsatisfactory

Inspection Procedure

Witness testing a sample with Factory QC Team : Yes/No

Witness testing with Independent Inspection Agency : Yes/No

**(Appendix 15B -2 of 7)**

**PRE-SHIPMENT/ PRE-delivery INSPECTION OF HDPE PIPES & FITTINGS**

**CHECK LIST**

Mark Yes or No in the Remarks Column as Appropriate Date of Inspection…………

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Technical  Specifications  Clause No. | Description | Values as per  Specifications | Satisfactory/  Unsatisfactory | Remarks |
| **GENERAL** | | | | |
| **Quality**  **Assurance** | **Availability of Valid Quality Standard Certificates** | **ISO 9001:2015** |  |  |
| **Independent**  **Inspection** | **Availability of Inspection Agency.**  **Certificate before Shipment** | **-** |  |  |
| **Markings** |  | **-** |  |  |
|  |  | **-** |  |  |
|  |  | **-** |  |  |
|  |  | **-** |  |  |
|  |  | **-** |  |  |
|  |  | **-** |  |  |
|  |  | **-** |  |  |
|  |  | **-** |  |  |
|  |  | **-** |  |  |
| **Material Characteristics** | | | | |
|  | **Mechanical Properties** |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**(Appendix 15B -3 of 7)**

**PRE –SHIPMENT/ PRE-delivery INSPECTION OF HDPE PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Hydrostatic Test** | | | | | | | | |
| **Bill No: Item No. & Qty. Sample size:**  **Description of Item :) Class : Dia. x Length :**    **Tech Spec Clause No: Reference Standard :** | | | | | | | | |
| **Sample**  **No** | **Item of Testing** | **Test results** | | | **Deviation** | **Tolerance**  **Allowed** | **Comply?** | **Remarks** |
| **1** |  |  |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |  |  |
| **4** |  |  |  |  |  |  |  |  |
| **5** |  |  |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |  |  |
| **7** |  |  |  |  |  |  |  |  |
| **8** |  |  |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |  |  |
| **Inspection & Testing Witnessed by** | | | | | | | | |
| **Name** | | | | | | | | |
| **Signature : Date :** | | | | | | | | |

**(Appendix 15B -4 of 7)**

**PRE –SHIPMENT/ PRE-delivery INSPECTION OF HDPE PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Length of Straight Pipes and Fittings** | | | | | | | |
| **Bill No: Item No. & Qty. Sample size:**  **Description of Item : HDPE Pipes (SS/DF) , Fittings Class : Dia. x Length :**  **Tech Spec Clause No: Reference Standard :** | | | | | | | |
| **Sample**  **No** | **Item of testing** | **Physical/Measured**  **Value** | | **Deviation** | **Tolerance**  **Allowed** | **Comply?**  (Yes/No?) | **Remarks** |
| Standard | Measured |
| **1** |  |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |  |
| **4** |  |  |  |  |  |  |  |
| **5** |  |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |  |
| **7** |  |  |  |  |  |  |  |
| **8** |  |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |  |
| **Inspection & Testing Witnessed by** | | | | | | | |
| **Name** | | | | | | | |
| **Signature Date** | | | | | | | |

**(Appendix 15B -5 of 7)**

**PRE –SHIPMENT/ PRE-delivery INSPECTION OF HDPE PIPES & FITTINGS -CHECK LIST**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Wall Thickness of Pipes & Fittings** | | | | | | | |
| **Bill No: Item No. & Qty. Sample size:**  **Description of Item : HDPE Pipes , Fittings SDR: Dia. x Length :**  **Tech Spec Clause No: Reference Standard** | | | | | | | |
| **Sample**  **No** | **Item of testing** | **Physical/Measured**  **Value** | | **Deviation** | **Tolerance**  **Allowed** | **Comply?**  (Yes/No?) | **Remarks** |
| Standard | Measured |
| **1** |  |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |  |
| **4** |  |  |  |  |  |  |  |
| **5** |  |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |  |
| **7** |  |  |  |  |  |  |  |
| **8** |  |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |  |
| **Inspection & Testing Witnessed by** | | | | | | | |
| **Name** | | | | | | | |
| **Signature Date** | | | | | | | |

**(Appendix 15B -6 of 7)**

**PRE –SHIPMENT/ PRE-delivery INSPECTION OF HDPE PIPES & FITTINGS - CHECK LIST**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Chemical Composition** | | | | | | |
| **Bill No: Item No. & Qty. Sample size:**  **Description of Item : HDPE Pipes SDR : Dia. x Length :**  **Tech Spec Clause No: Reference Standard** | | | | | | |
| **Sample**  **No** | **Item of testing** | **Physical/Measured**  **Value** | **Deviation** | **Tolerance**  **Allowed** | **Comply?** | **Remarks** |
| **1** |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |
| **4** |  |  |  |  |  |  |
| **5** |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |
| **7** |  |  |  |  |  |  |
| **8** |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |
| **Inspection & Testing Witnessed by** | | | | | | |
| **Name** | | | | | | |
| **Signature Date** | | | | | | |

**(Appendix 15B - 7 of 7)**

**INSPECTION OF HDPE PIPES & FITTINGS**

**CHECK LIST**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Technical Specifications  Clause No. | Description | Requirements as per Specifications | Satisfactory/  Unsatisfactory | Remarks |
| HANDLING OF PIPES AND FITTINGS AFTER PRODUCTION | | |  |  |
|  | Handling |  |  |  |
|  | Stacking |  |  |  |
|  | Inspection by Factory/Inspection Authority |  |  |  |
|  | Transport Arrangements within manufacturers Country |  |  |  |
|  | Shipping Arrangements |  |  |  |
|  | Freight Insurance Arrangements |  |  |  |
| CONCLUSION AT THE END OF THE INSPECTION TOUR | | |  |  |
| Total Process of Production, Testing  Handling, Insurance and Freight  Arrangements Satisfactory | | |  |  |

Observations :

Signature 1 Signature 2

Name & Designation 1: Name & Designation 2:

**APPENDIX 16 - Details of Local Accredited Agent**

1.Name of Local Accredited Agent:

2. Official Address:

3. Details of Local Accredited Agent’s Company

3.1 Names of Directors

3.2 Qualifications of Directors and their experience in business

3.3 Registration with the Registrar of companies

(a). Registration Number

(b). Date of Registration

3.4 Financial Capacity

(Prove with Audit Financial Statements for last 3 years)

3.5 Technical Competence

3.6 Supporting staff

(a) Name :

(b) Qualification:

(c ) Experience

3.7 Office area (m2)

3.8 Stores capacity :

(Indicate the area and location)

3.9 Yard capacity

(Indicate the area and location)

3.10 Past Experience and history of performance

Details of previous supplies to the NWSDB:

(Copies of the letters of Contract Awards and completion certificates shall be attached)

**APPENDIX 17 – NWSDB PRE-QUALIFIED MANUFACTURERS AND THEIR PRE-QUALIFIED ITEMS**

**Note:**

Pre-Qualified pipe manufacturer has been pre-qualified together with pipe fitting manufacturer and rubber ring manufacturer. Therefore, when selecting a pre-qualified pipe manufacturer, his relevant pipe fitting manufacturer and rubber ring manufacturer shall be selected.

*When Bidding Document is prepared please include updated list of prequalified manufactures under this Appendix for*

* *HDPE pipes & fittings*
* *DI pipes , fittings & rubber rings*
* *DI Valves*
* *DI Manhole covers*
* *DI Couplings, Flange Adaptors, Stepped Couplings and Dismantling joints for DI. Asbestos, GRP, PE & PVC Connection*

**APPENDIX 18 - ENTITLED ALLOWANCES ON FOREIGN TRAVELS &**

**RELATED EXPENSES**



**APPENDIX 19– AFFIDAVIT BY THE BIDDER**

I ………………………………………… of ………………………………………… being a ……………………… (Buddhist or any other religionist), do hereby solemnly sincerely and truly declare and affirm as follows.

01. I am the Affirmant above named.

02. I hereby declare that I have applied for the Contract of National Water Supply and Drainage Board bearing No: …………………………………….. and my spouse or dependent does not work in National Water Supply and Drainage Board on permanent, casual or Contract basis.

The foregoing affidavit having been read over and explained to the affirmant above named who having understood its nature content and context affirmed hereto and set his usual signature hereto in ……………... on this ………….……………… day of …………….…….. 20...

Before me ……………………

Declarant

…………………………………

Justice of the Peace /

Commissioner for oaths

**APPENDIX 20– EMPLOYER’S MINIMUM REQUIREMENT OF FUNDING TERMS**

Note : Bidder shall fill the data as per his Funding terms and submit this with the Bid.

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Description** | **Minimum Requirement** | **Bidder’s Offer** |
| 01. | Grace Period | 3 years |  |
| 02. | Repayment period | 12 years |  |
| 03. | Interest margin per year | 1% |  |
| 04. | Number of payments per year | 2 |  |
| 05. | Commitment, Management and Other Charges | 0% |  |

Revised on 08-08-2016