



राष्ट्रीय कृषि और ग्रामीण विकास बैंक(नाबार्ड)
गुजरात क्षेत्रीय कार्यालय
परिसर, सुरक्षा और अधिप्राप्ति विभाग, द्वितीय तल
नाबार्ड टावर, म्यूनिसिपल गार्डन के सामने, उस्मानपुरा, अहमदाबाद- 380013
दूरभाष : 079-27554041/4049
ई-मेल: dpsp.ahmedabad@nabard.org

निविदा

कार्य : नाबार्ड कार्यालय भवन(म्यूनिसिपल गार्डन के सामने), उस्मानपुरा, अहमदाबाद-
380013 में अग्निशमन प्रणाली का नविनीकरण

निविदाकर्ता का नाम :

पता :

निविदा प्रेषित करने की अंतिम तिथि और समय : 13 दिसंबर 2021, दोपहर 03.00 बजे तक

National Bank for Agriculture and Rural Development
Department of Premises, Security and Procurement
Gujarat Regional Office
2nd Floor, NABARD Tower
Opposite Municipal Garden, Usmanpura
Ahmedabad – 380013
Telephone: 079-27554041/4049
Email: dpsp.ahmedabad@nabard.org

Tender For

Renovation of firefighting system in NABARD Office Building, at
Usmanpura (Opp. Municipal Garden), Ahmedabad – 380013

Name of the Tenderer: _____

Address: _____

Last Date and Time for Submission of Tender: 13 Dec. 2021 up to 15.00 hrs



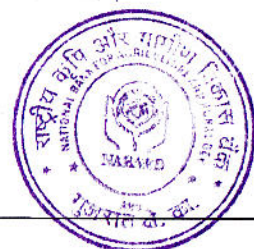
महत्त्वपूर्ण तिथियाँ और समय Important Dates and Time

| क्रम सं. Sl. No. | गतिविधियों का विवरण Particulars of Activity | दिनांक और समय Date and Time |
|---------------------|--|--|
| 1 | निविदा जारी करना और निविदा दस्तावेजों का डाउनलोडिंग Issue of Tender and Commencement of Downloading Tender Document | 22 नवंबर 2021 22 Nov. 2021 |
| 2 | प्री-बीड बैठक की तिथि, समय और स्थान Date, Time and Place of Pre-Bid Meeting | 02 दिसंबर 2021 – 15:00 बजे, छोटा सभाकक्ष/सभाकक्ष, तृतीय तल, नाबार्ड टावर, अहमदाबाद 02 Dec. 2021 at 15:00 hrs. Mini Conference Hall/ Conference Hall, NABARD Tower |
| 3 | निविदा प्रेषित करने की अंतिम तिथि और समय Last Date and Time for Submission of Tender | 13 दिसंबर 2021 – 15:00 बजे तक 13 December 2021 up to 15:00 hrs. |
| 4 | तकनीकी बोली खोलने की तिथि और समय Date and Time of Opening of Technical Bids | 13 दिसंबर 2021 – 16:00 बजे तक 13 December 2021- 16:00 hrs. |



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निविदा आमंत्रण सूचना
Tender Inviting Notice

संदर्भ सं. NB.Guj./2181 /DPSP/NBT/250- Renovation of Fire Fighting System at NBT/2021-22

तिथि : 22 नवंबर 2021

प्रिय महोदय,

कार्य का नाम: नाबार्ड टावर, म्यूनिसिपल गार्डन के सामने, उस्मानपुरा, अहमदाबाद- 380013 में अग्निशमन प्रणाली का नविनीकरण

1. राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नाबार्ड) उपर्युक्त कार्य के लिए दो भागों में निविदा आमंत्रित करता है।

2. उपर्युक्त कार्य की आनुमानित लागत रु . 46.5 लाख है।

3. निविदाकर्ताओं से अनुरोध है कि वे 13/12/2021 को दोपह्न 03.00 बजे से पूर्व नाबार्ड, गुजरात क्षेत्रीय कार्यालय, परिसर, सुरक्षा और अधिप्राप्ति विभाग, नाबार्ड टावर, उस्मानपुरा, अहमदाबाद- 380013 में रखी गई निविदा पेटी में अपनी बोली डाल दें।

4. हमारी वेबसाइट <https://nabard.org> से निविदा दस्तावेज़ डाउनलोड किए जा सकते हैं। निविदा प्रस्तुत करने की अंतिम तिथि तक वेबसाइट पर निविदा दस्तावेज़ उपलब्ध रहेंगे।

5. उपर्युक्त कार्य के लिए निविदाकर्ताओं/बोलीकर्ताओं द्वारा सम्पूर्ण रूप से भरी हुई अलग-अलग दो बोलियाँ अर्थात - तकनीकी बोली और मूल्य बोली प्रस्तुत की जाएगी।

6. निविदा दस्तावेज़ और उसके अन्य भाग में वर्णित शर्तों और निबंधनों में तकनीकी बोली, मूल्य बोली, प्रस्तुति प्रक्रिया और उसका विवरण, कार्य की परिधि और वांछित सेवाओं के संबंध में विस्तृत अनुदेश दिए गए हैं।

7. यह नोट करें कि बोली प्रक्रिया के प्रत्येक चरण में नाबार्ड के साथ 'सत्यनिष्ठा करार' करने को इच्छुक बोलीकर्ता ही बोली में शामिल हो पाएंगे।

Dear Sir

Name of Work: Renovation of firefighting system in NABARD Office Building at Usmanpura (Opp. Municipal Garden), Ahmedabad - 380013

1. National Bank for Agriculture and Rural Development (NABARD), Gujarat Regional Office (RO), Ahmedabad invites two-part tender on captioned work.

2. The estimated cost of undertaking the work is Rs. 46.5 lakhs.

3. Tenderers are requested to submit their bids in the Tender Box on 2nd floor, Department of Premises. Security and Procurement, NABARD Tower, Usmanpura, Ahmedabad 380013 latest by 15.00 hrs 13 December 2021.

4. The Tender documents can be downloaded from our website at <https://www.nabard.org>. The tender documents will be available on the website, until the last date of submission.

5. The tenderer / bidder shall submit two separate bids for the captioned work i.e. Technical Bid and Price Bid, which should be complete in all respect.

6. Instructions regarding Technical Bid, Price Bid, submission process and description & scope of works and the services required have been elaborated in the Terms and Conditions of the tender and other parts of the tender document.

7. It must be noted that the only Bidders who are willing to enter into Integrity Pact (IP) with the Bank on every stage of bidding, will be eligible to participate in the bidding process.



8. संविदा के सभी चरणों में निविदाकर्ता द्वारा निर्धारित प्रारूप (अनुबंध - जी) में नाबार्ड के साथ 'सत्यनिष्ठा करार' निष्पादित करना होगा। (<http://www.cvc.nic.in>)

9. निविदा के पृष्ठ सं. 8 में वर्णित कार्यक्रम अनुसूची के अनुसार NEFT/RTGS से अथवा अनुबंध - ई में किसी भी राष्ट्रीयकृत बैंक / अनुसूचित बैंक के माध्यम से बयाना राशि के रूप में **₹30,750/- (रूपये तीस हजार सात सौ पचास मात्र)** की बैंक गारंटी जमा की जाए। बिना बयाना राशि की निविदाएँ नकार दी जाएँगी। बयाना राशि में छूट हेतु पात्र बोलीकर्ताओं से अनुरोध है कि वे निविदा के साथ एसएसआई/एमएसई/उद्योग आधार/उद्यम पंजीकरण और वैध सीएसपीओ/एनएसआईसी/डीजीएस&डी पंजीकरण प्रमाणपत्र की प्रतियाँ जैसे सपोर्टिंग दस्तावेज़ संलग्न करें।

10. बोली-पूर्व बैठक का आयोजन 02 दिसंबर 2021 को दोपहर 15:00 बजे नाबार्ड, गुजरात क्षेत्रीय कार्यालय के मुख्य सम्मेलन कक्ष, तीसरा तल, नाबार्ड टॉवर, म्युनिसिपल गार्डन के सामने, उस्मानपुरा, अहमदाबाद- 380013 में किया जाएगा। बोली-पूर्व बैठक में आप जिन प्रश्नों का उत्तर चाहते हैं, वे हमें बैठक से कम-से-कम दो कार्यदिवस पहले लिखित में ई-मेल (dpsp.ahmedabad@nabard.org) से भेजें। बोली-पूर्व बैठक में दिए गए सभी स्पष्टीकरण निविदा का हिस्सा होंगे और उन्हें नाबार्ड की वेबसाइट (www.nabard.org) पर अपलोड किया जाएगा। साथ ही, बोलीकर्ताओं/बोलीकर्ताओं के प्रतिनिधियों को कोविड-19 संबंधित सतर्कता मानदंडों का सख्ती से पालन करना होगा। ऐसा नहीं करने पर, बैंक उन्हें बैठक में उपस्थित होने से रोक सकता है।

11. नाबार्ड, गुजरात क्षेत्रीय कार्यालय के मुख्य सम्मेलन कक्ष, तीसरा तल, नाबार्ड टॉवर, म्युनिसिपल गार्डन के सामने, उस्मानपुरा, अहमदाबाद- 380013 में 13/12/2021 को सायं 16:00 बजे अथवा किसी भी परिस्थिति में, नाबार्ड द्वारा निर्धारित तिथि और समय में, इस प्रक्रिया में उपस्थित रहने के इच्छुक बोलीकर्ताओं की उपस्थिति में तकनीकी बोलियाँ खोली जाएँगी। सभी बोलीकर्ताओं को सूचित किया जाता है कि वे स्वहित में निर्धारित तिथि पर उपस्थित रहें। इस संबंध में अलग से कोई सूचना नहीं भेजी जाएगी। कृपया नोट करें कि प्रत्येक बोलीकर्ता के दो से अधिक प्रतिनिधि इस प्रक्रिया में उपस्थित नहीं रह सकते। तकनीकी बोली में भाग लेने हेतु बोलीकर्ता के प्रतिनिधि को संबंधित बोलीकर्ता के लैटरहेड पर प्राधिकार पत्र प्रस्तुत करना होगा। साथ

8. Tenderer must implement Integrity Pact (IP) in the prescribed format (Annexure-G) in all phases of the contract. (<http://www.cvc.nic.in>)

9. **Earnest Money Deposit (EMD) of Rs.30,750/- (Rupees Thirty Thousand Seven Hundred Fifty Only)** is to be submitted by way of **Bank Guarantee (BG)** from any Nationalized Bank / Scheduled Bank as per the Annexure-E or **NEFT/RTGS** as per details given in schedule of events on page 8 in the tender. Tender without EMD shall be rejected. Bidders who are eligible for exemption of EMD, are requested to submit supporting documents such as copy of SSI/ MSE/Udyog aadhar/ Udyam Registration and valid CSPO/NSIC/DGS&D registration certificates

10. A Pre-Bid meeting is scheduled to be held on 02 December 2021 at 15.00 hrs in the Conference Hall on 3rd Floor of Gujarat Regional Office, NABARD Tower, Opposite Municipal Garden, Usmanpura, Ahmedabad - 380013. The clarifications being sought in the pre-bid meeting should be submitted in writing at least 2 working days prior to the date of pre-bid meeting by email on dpsp.ahmedabad@nabard.org. All the clarifications of the pre-bid meeting will be part of tender and will be uploaded on NABARD website (www.nabard.org). Further, bidders/ representatives of bidders have to strictly follow COVID-19 related precautionary norms. In case of failure to do so, bank, at its discretion, may prevent them from attending the meeting.

11. The Technical Bids will be opened on 13 December 2021 at 16:00 PM in Conference Hall on 3rd Floor of Gujarat Regional Office, NABARD Tower, Opposite Municipal Garden, Usmanpura, Ahmedabad - 380013 in presence of the interested bidders who chose to be present or in any eventuality, on the date and time as decided by NABARD. All the bidders are advised in their own interest to be present on the specified date. No separate intimation will be given in this regard. Please note, not more than two representatives from each bidder shall be entertained. The representative has to furnish an authorisation letter from the respective bidder on their letterhead for



ही, बोलीकर्ताओं/बोलीकर्ताओं के प्रतिनिधियों को कोविड-19 संबंधित सतर्कता मानदंडों का सख्ती से पालन करना होगा। ऐसा नहीं करने पर, बैंक उन्हें बैठक में उपस्थित होने से रोक सकता है।

12. तकनीकी बोली के विस्तृत मूल्यांकन के बाद किसी नियत तिथि पर मूल्य बोली खोली जाएगी। तकनीकी बोली में योग्य पाये गए बोलीकर्ताओं को मूल्य बोली खोलने की तिथि की जानकारी अलग से भेजी जाएगी।

13. मूल्य बोली में किसी भी प्रकार की शर्तें, जो भी हो, नहीं होनी चाहिए अन्यथा सशर्त बोलियों को नकार दिया जाएगा।

14. यदि दो या उससे अधिक निविदाकर्ता द्वारा एक ही/समान राशि उद्धृत की जाती है तो उन निविदाकर्ताओं को दरें संशोधित करने का अवसर दिया जाएगा।

15. न्यूनतम बोली (L1) को स्वीकार करना नाबार्ड के लिए बाध्यकारी नहीं है। नाबार्ड को यह अधिकार है कि बगैर कारण बताए किसी भी फ़र्म / फ़र्मों की किसी / सभी निविदाओं को आंशिक या पूर्ण रूप से स्वीकारें या नकार दें।

16. तकनीकी बोलियों, मूल्य बोलियों और निविदा प्रक्रिया के संबंध में बैंक का निर्णय अंतिम और बाध्यकारी होगा।

17. यदि किसी बोलीकर्ता द्वारा निर्धारित तकनीकी मानदंडों आवश्यकताओं में किसी प्रकार का विचलन करने का प्रस्ताव किया जाता है तो, उसकी निविदा को नकार दिया जाएगा।

18. निविदाकर्ता द्वारा अर्हता पूर्व मानदंडों और तकनीकी दस्तावेज़ शीट्स के समर्थन में संबंधित दस्तावेज़ अवश्य संलग्न किए जाएँ।

19. मूल्य बोलियाँ खोलने की तिथि से बोलियाँ 3 महीने तक वैध और स्वीकार करने के लिए खुली रहेंगी।

20. कार्य पूरा करने की अवधि: कार्य आदेश की प्राप्ति से 90 दिनों के भीतर यह कार्य पूरा किया जाना होगा।

participating in the technical bid opening. Further, bidders/ representatives of bidders have to strictly follow COVID-19 related precautionary norms. In case of failure to do so, Bank, at it's discretion, may prevent them from attending the meeting.

12. The Price Bid shall be opened at a later date after detailed evaluation of the technical bid. The date of opening of price bid shall be intimated separately to the technically qualified bidders only.

13. The Price Bid should not contain any conditions whatsoever and any such conditional bids received shall be rejected.

14. In case two or more tenderers quote identical/ equal amount, one more opportunity will be given to those tenderers to revise the rates.

15. NABARD does not bind itself to accept the lowest bid (L1). NABARD reserves the right to accept or reject any /all tender/s in part or whole of any firm / firms without assigning any reasons whatsoever.

16. The decision of the bank shall be final and binding with regard to technical and price bids and the tendering process.

17. The tender will be rejected, if any bidder proposes any deviation from the prescribed technical criteria requirement.

18. Tenderers must ensure attachment of relevant documents, supporting the Pre-Qualification Criteria and Technical Document Sheets.

19. The bids shall remain valid and open for acceptance for 3 months from the date of opening of Price Bid.

20. Time of Completion: The work shall be completed within 90 days from receipt of work order.



21. निविदा में वर्णित शर्तों और निबंधनों को स्वीकार करने के रूप में, निविदा के सभी दस्तावेजों पर मुहर लगाई जाएँ और उस पर हस्ताक्षर किए जाएँ।

22. कार्यपूर्णता विलंब हेतु निर्णीत हर्जाना के रूप में प्रत्येक सप्ताह के विलंब अथवा उसके भाग हेतु स्वीकार की गई निविदा के मूल्य के अधिकतम 5% के अधीन 0.25 % कार्यमूल्य प्रभारित किया जाएगा।

23. नाबार्ड को यह अधिकार है कि बगैर कारण बताए किसी भी फ़र्म / फ़र्मों की किसी / सभी निविदाओं को आंशिक या पूर्ण रूप से स्वीकार या नकार दें। इस संबंध में बैंक का निर्णय अंतिम होगा। यदि अभीष्ट निविदाकर्ता बैंक को संतुष्ट नहीं कर पाता है तो, बैंक के पास निविदा नकारने अधिकार सुरक्षित है।

24. नाबार्ड को यह अधिकार है कि वह निविदा दस्तावेज के किसी भी या सभी प्रावधानों को बदले/संशोधित करे/परिवर्तित करे। यदि ऐसे परिवर्तन/संशोधन/परिवर्धन किए जाते हैं, जो भी हो, तो केवल नाबार्ड की वेबसाइट पर ही उपलब्ध कराए जाएँगे।

25. निविदाकर्ता द्वारा विद्यमान साइट किया जाएँ और अन्य शर्तों से संतुष्ट होने के पश्चात ही बोली प्रस्तुत की जाएँ।

26. अपना प्रस्ताव जारी होने की तिथि से 10 दिन के भीतर सफल बोलीकर्ता द्वारा प्रारम्भिक सिक्यूरिटी डिपॉजिट और क्षतिपूर्ति पत्र प्रस्तुत किया जाएँ और संलग्न मानक/निर्धारित प्रारूप में नाबार्ड के साथ 'वर्क कॉन्ट्रैक्ट' का करार विलेख निष्पादित किया जाएँ अन्यथा उसकी बयाना राशि जप्त की जाएगी।

27. सभी बोलिकर्ताओं द्वारा तकनीकी बोली के साथ अनुबंध - जी में निर्दिष्ट प्रारूप में संविदा पूर्व 'सत्यनिष्ठा करार' प्रस्तुत किया जाएँ अन्यथा उनकी बोली को नकार दिया जाएगा।

भवदीय

(एम पी पहाड़सिंह)
उप महाप्रबंधक

21. All documents that comprise the offer should be signed and sealed by the firm, as a token of acceptance to the terms and conditions specified in the tender.

22. Liquidated damages for delay in completion of the works will be levied at 0.25% of the value of work for every week of delay or part thereof, subject to maximum of 5% on the value of the accepted tender.

23. NABARD reserves the right to accept or reject any /all tender/s in part or whole of any firm / firms without assigning any reasons whatsoever. The decision of the Bank in this regard shall be final. In the event of intending tenderers failure to satisfy the bank, the bank reserved the right to reject the tender.

24. NABARD reserves right to change/modify/amend any or all provisions of the tender document. Such revision/amendment or corrigendum/addendum, if any, will be made available on NABARD's website only.

25. Tenderer should inspect the existing site and other conditions up to their satisfaction before tendering/bidding.

26. The successful bidder shall deposit Initial Security Deposit and Letter of Indemnity and Undertaking, and execute an 'Articles of Agreement' of work contract with NABARD in accordance with the standard / prescribed format enclosed within 10 days from the date of issue of the offer failing which the bidder's EMD may stand forfeited.

27. All bidders have to submit the Pre-Contract Integrity Pact along with the Technical Bid, as per the format provided in Annexure-G, failing which the bid may be rejected

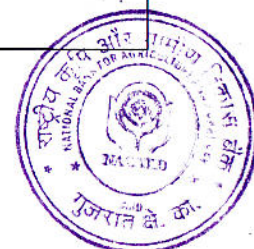
Yours faithfully

(M P Pahadsingh)
Deputy General Manager



SCHEDULE OF EVENTS

| | | |
|---|---|-----------------------------------|
| Bid Document Availability | Tender document can be downloaded from: https://www.nabard.org (under Information Centre in the website main page). | |
| | From | 22 November 2021 |
| | To : | 13 December 2021 15.00 hrs |
| Earnest Money Deposit (EMD) | <p>The contractor shall deposit Earnest Money Deposit for an amount of Rs.30,750 (Rupees Thirty Thousand Seven Hundred Fifty Only) through Bank Guarantee (BG) from any Nationalized Bank / Scheduled Bank as per the Annexure-E or NEFT/RTGS credited into our Bank Account, details mentioned in next row:</p> <p>If the bidder wants to claim exemption under MSME Procurement Policy of Govt. of India, the bidder has to submit documentary proof of registration as MSME with Central Procurement Organizations or NABARD itself.</p> | |
| Account Details of National Bank for payment of Earnest Money Deposit | <p>Payee Name : NABARD Current Account No : NABADMNo2 Name of the Bank: NABARD IFSC Code : NRD00000002</p> | |
| Pre-Bid meeting | 1500 hrs. on 02 December 2021 | |
| Last date of submission of Tender | Up to 1500 hrs. on 13 December 2021 | |
| Opening of Technical Bids Opening of Price Bids | <p>1600 hrs. on 13 December 2021 Authorized representatives of vendors may be present during opening of the Technical Bids. However, Technical Bids would be opened even in the absence of any or all of the vendors' representatives. Price Bid will be opened on a subsequent date, which will be communicated to such bidders who qualify the Eligibility Criteria and Technical Bid.</p> | |
| Contact Details: Address for Communication And submission of bid. | <p>NABARD , Gujarat Regional Office, Department of Premises, Security and Procurement, 2nd Floor, NABARD Towers, Opposite Municipal Garden, Usmanpura, Ahmedabad 380013</p> | |



TECHNICAL BID

(Part-I)



FORM OF TENDER

Date:

Chief General Manager,
National Bank for Agriculture and Rural Development
Gujarat Regional Office,
Ahmedabad

Dear Sir,

“Renovation of firefighting system in NABARD Office Building at Usmanpura (Opp. Municipal Garden), Ahmedabad – 380013”

1. Having examined the tender document relating to the works specified in the Memorandum hereinafter set out, having visited and examined the site of the works specified in the said Memorandum and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said Memorandum within the time specified, at the rates mentioned in the Price Bid; in all respects of the tender and with such materials as are provided for, in accordance with such conditions in so far as they may be applicable.

2. MEMORANDUM

| S. No | Subject | Specification |
|--------------|---|--|
| a | Description of work | Renovation of firefighting system in NABARD Office Building at Usmanpura (Opp. Municipal Garden), Ahmedabad – 380013 |
| b | Earnest Money | Rs. 30,750/- (Rupees Thirty Thousand Seven Hundred Fifty Only) |
| c | Time allowed for completion of the work | The time of completion of the project shall be 90 days from the date of issue of work order. |
| d | Retention Money Deposit\ (RMD) | 5 % will be deducted from total bill amount. |
| e | Initial Security Deposit | 2% of value of accepted tender value (to be submitted by successful bidder in form of Bank Guarantee or NEFT/RTGS credited into our Bank Account, details mentioned in schedule of events) |

3. Should this tender be accepted, I/We hereby agree to abide by and fulfill the terms and provisions or the said Conditions of the tender annexed hereto in so far as they may be applicable or in default thereof to forfeit the EMD and pay to the National Bank for Agriculture and Rural Development, the amount mentioned in the said tender conditions.



4. I/We have not been blacklisted/ debarred by any Central/State Government Organization or PSU.

Our Banker's are :

i)..... Bank, Branch,

ii) Bank, Branch,

iii) Type of account : Savings / Current account

iv) Bank Account No. :

v) IFS code of Bank and branch :

The names of partners of our firm are :

i)

ii)

iii)

Name of the partner of the firm

Authorized to sign:

OR

Name or person having Power of

Attorney to sign the contract

(certified copy of the Power of

Attorney should be attached):

Yours faithfully,

Signature of Tenderer with stamp



PRE-QUALIFICATION CRITERIA

| Sr. No. | Pre-qualification criteria | Bidder Response |
|---------|--|------------------------|
| 1 | The Bidder should have office in Ahmedabad (Office Address proof document issued by Govt. Agency) | |
| 2 | Whether Registered as a contractor to any Govt. / Private Body? Mention the registration number and year of registration. (Attach documentary proof) | |
| 3 | Experience as contractor (Give number of years) | |
| 4 | Financial standing through a) The annual financial turnover of the bidder during each of the last three years (2017-18, 2018-19, 2019-20) shall not be less than 30% of estimated cost. The certificate of Annual Turnover should be certified by CA/Statutory Auditors. b) ITR (Income Tax Returns), of last 3 financial years (2017-18, 2018-19, 2019-20) c) Audited Balance sheet and profit & Loss account of last 3 financial years (2017-18, 2018-19, 2019-20). (Attach documentary proof) | a) b) c) |
| 5 | The firm should have experience of working with Public Sector Units, MNCs or other reputed firms on Similar Renovation Works during last 7 years and the firm should have achieved at least one of the levels of work mentioned below: a) three similar completed works whose individual work value is costing not less than 40% of our estimated cost. or b) two similar completed works whose individual work value is costing not less than 50% of our estimated cost. or c) one similar completed works whose individual work value is costing not less than 80% of our estimated cost. | |



| | | |
|----|--|--|
| | (Copies of work order & Completion certificates to be attached) | |
| 6 | The firm should have adequate technically qualified and experienced staff in their employment, having minimum 3 years' experience in execution of similar works | (Details to be indicated in Annexure-A) |
| 7 | Important major contracts completed (value of the contracts having individual value of 40% of our estimated cost and above only). The full postal address of the Clients including their contact telephone numbers. (Completion certificate should be attached) | Details to be furnished in the prescribed pro forma (Annexure-B) |
| 8 | Important major contracts ongoing (value of the contracts having individual value of 40 % of our estimated cost and above only) on which the firm is engaged at present. The full address of the Clients and their contact telephone numbers shall be indicated against each assignment. | Details to be furnished in the prescribed pro forma (Annexure-C) |
| 9 | EMD Deposit (if claiming EMD exemption, submit documentary proof of registration as MSME with Central Procurement Organizations or NABARD) (Provide UTR/Bank Guarantee details) | |
| 10 | Should have Goods and Service Tax Registration No. (Provide GST Registration Certificate) | |
| 11 | PAN Card (Submit copy of PAN Card) | |

[Please ensure to provide details of staff and works fulfilling the eligibility criteria in Annexures A, B and C respectively of the tender document.]

[Note: Estimated cost of project is 46.5 lakhs]

Decision of the Bank with regard to selection of Contractors will be final. The Bank is not bound to assign any reasons thereof. Any false and / or inadequate information can result in rejection of the tender. The selection of the bidders is based entirely upon the capability and resources of prospective bidders to perform the particular contract satisfactorily, taking into account above criteria.

Place

Date

Signature of Tenderer

Name and Address with Seal



Instructions to The Bidders

1. Intending contractors are required to submit their profile by giving details in the enclosed pro forma about their organisation, experience, professional personnel in their organisation, competence, etc.
2. The tenders shall be signed by the person/persons on behalf of the organisation having necessary Authorisation/Power of Attorney to do so. **Each page of the application shall be signed and stamped.** (Copy of Power of Attorney/Memorandum of Association shall be furnished along with application).
3. If the space in the pro forma is insufficient for furnishing full details, such information shall be supplemented on separate sheets of paper stating therein the part of the pro forma and serial number. Separate sheets shall be used for each part of application, if required.
4. Tenders containing false and/or incomplete information are liable for rejection.
5. While filling up the tenders with regard to the list of important assignments completed or on hand, the contractors shall only include major assignments having agreement/completion value of 40% of our estimated cost and above. The copies of the bill raised may be enclosed for assessment and verifications in this regard.
6. The contractor must have qualified and experienced professionals in the respective discipline.
7. The applicant must have successfully completed the work according to the eligibility criteria mentioned.
8. The Earnest Money Deposit of **Rs. 30,750/-** (Rupees Thirty Thousand Seven Hundred Fifty Only) may be made through **Bank Guarantee (BG)** from any Nationalized Bank / Scheduled Bank or **NEFT/RTGS to the following account:**

Payee Name : NABARD

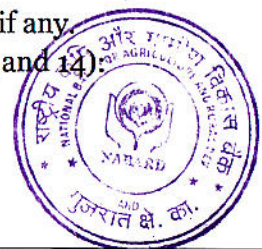
Current Account No : NABADMN02

Name of the Bank: NABARD

IFSC Code : NBRD00000002

Note: UTR number is to be indicated for payment made through NEFT/RTGS

9. The tender will not be received after 3.00 P. M. on the date indicated in the letter of invitation to tenderer, under any circumstances, whatsoever.
10. The tender should be submitted in two envelopes as described hereafter. Both envelopes shall be super-scribed and each envelope should also bear the envelope number prominently.
11. Sealed envelope No. 1 (Technical Bid) shall contain the following:
 - a) Earnest money deposit receipt as specified.
 - b) Tenderers letter, in duplicate, giving technical or financial clarifications if any.
 - c) Pre-qualification documents which includes the following (refer page 13 and 14):
 - a. Information(s) to be furnished by contractors



- b. Annexure-A
 - c. Annexure-B
 - d. Annexure C
 - e. Annexure G
- d) All pages of the Technical Bid and set of tender drawings, if any, shall be duly signed by the tenderer.
12. **Very Important:** Please note that the contents of envelope No. 1 must not reveal rates of any items or the total tender amount quoted by the tenderer.
13. Sealed envelope No. 2 (Price Bid) duly filled and signed as specified should contain the following:
- i. Prices in Indian Rupees only, with detailed break-up of prices as per Price Bid.
 - ii. The Schedule of Quantities as per the specifications and the most competitive prices offered in respect of the items listed in price Bid.
 - iii. The Commercial Offer should be in conformity with the terms indicated in Price Composition.
 - iv. The Price Bid should not contradict the Technical Bid in any manner
14. Envelope I and Envelope II may both be placed and submitted in another sealed cover super scribed "Renovation of firefighting system in NABARD Office Building, at Usmanpura (Opp. Municipal Garden), Ahmedabad – 380013" and addressed to Chief General Manager, National Bank for Agriculture and Rural Development, NABARD Tower, Opp. Municipal Garden, Usmanpura, Ahmedabad – 380013"
15. Please fill in the Schedule of quantities as follows: -
- a. Fill in the "Rate" column legibly. (In figure & word, descriptive rate will be final & applicable).
 - b. Fill in the "Amount" column legibly.
 - c. Signature and Seal
 - d. Give the total amount of each page duly carried over and the grand total. Wherever alternative specifications have been specified, amount of such items should not be added to the total.
 - e. Initial all corrections and put in your signature at the end of the Schedule of Rates.
16. Initial all pages of the Tender Document as a token of acceptance of the terms and conditions set out in the Tender Documents.
17. In case any clarification is required by the tenderer, they may contact Assistant General Manager, DPSP, NABARD, Gujarat Regional Office, 2nd floor, NABARD Tower Usmanpura, Ahmedabad. 380013 or our consultants M/s Ramana Safety.
18. Addenda / Corrigenda if any issued by NABARD will be uploaded on its website www.nabard.org and shall become part of the tender documents.
19. The tenders shall be signed by the person/persons on behalf of the organisation having necessary Authorisation/Power of Attorney to do so. Each page of the application shall



be signed. (Copy of Power of Attorney/Memorandum of Association shall be furnished along with application).

20. In case of successful bidder, the EMD will be retained with NABARD, which will form part of the Security Deposit (SD) and will be refunded after successful completion of works. In case of unsuccessful bidders, the EMD will be refunded only on award of Contract to the successful bidder. The EMD / SD will not bear any interest. If the bidder withdraws his tender before expiry of the validity period of the tender or if the Contractor fails to execute / complete the works satisfactorily, NABARD reserves the right to forfeit the EMD / SD. Any tender not accompanied by the EMD will be rejected.
21. The rates for each item as per scope of work shall be quoted by the applicant in the Price bid to be submitted separately as Part-2.
22. **Financial bids of only those contractors qualified in the Technical bid will be opened for selection of contractor.**



TERMS and CONDITIONS

1. Contractor will not disclose details of the work to any person or persons except those engaged in its performance, and only to the extent required for the particular portion.
2. Contractor will not give any item concerning details of the work to the press or a news disseminating agency without prior written approval from EMPLOYER, Contractor shall not take any pictures / photographs on site without written approval of EMPLOYER.
3. The Contractor shall indemnify the Employer against any losses as per format given at **Annexure-F**.

DEFINITIONS

4. The "CONTRACT" means the documents forming the tender and acceptance thereof any the formal agreement executed between **NABARD**, and the Contractor together with the documents referred to therein including these conditions, the specifications bills of quantities, designs, drawings and instructions issued from time to time by **NABARD**, or any person authorized by the competent Authority, and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.
5. In the contract the following expressions shall unless the context otherwise required, have the meanings hereby respectively assigned to them.
 - (i) The expressions "Works" or "Work" shall unless there be something either in the subject or context repugnant to such construction/renovation, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent and whether original, altered, substituted or additional.
 - (ii) The "Contractor" shall mean the individual or firm or company whether incorporated or not undertaking the works and shall include the legal personal representative of such individual or the persons composing such firms or company and the permitted assigns of such individual or firm or firms or company.
 - (iii) The "Contract Sum" shall mean in case of item rate contracts, the cost of the works arrived at after extension of the quantities shown in the schedule of quantities by the items rates quoted by the Contractor / Tenderer for the various items.
 - (iv) A "Day" shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
 - (v) "Expected risks" are risks due to riots (otherwise than among Contractor's labours / employees) and civil commotions (in so far as both these are uninsurable), wars (whether declared or not), invasions, act of foreign enemies, Hostilities, Civil war, rebellion, insurrection military or usurped power, any act of Governments, damage from aircraft, acts of God such as earthquake, lighting and unprecedented floods, and other causes over which the contractor has no control and accepted as such by **NABARD**, of the part of works in respect of which a certificate of completions has been issued.
 - (vi) "Market-Rate" shall be the rate as decided by **NABARD** on the basis of standard market rate analysis hand book published by **NBO**, and the rates shall be determined on the basis of the prevailing market rates of materials and labour plus 15% for overheads and contractor profit and pay the contractor accordingly



(vii) "Schedule" referred to in these conditions shall mean the relevant schedule (s) annexed to the Tender documents / papers issued by NABARD, of the standard schedule of rates prescribed by NABARD and the amendments thereto issued from time to time.

(viii) "Project Consultant" shall mean M/s. Ramana Safety and will include duly authorised representative or any other person empowered by them in this behalf to discharge all or any for the following functions:

- a. The overall execution of work will be supervised and monitored by the Project consultant, who will, besides ensure quality control and coordinate between the contractor and the Employer.
- b. Taking measurements jointly with the contractors(s)/their representatives after completion of every stage of items of work, recording measurements and quantities specified in the Measurement Books at the site.
- c. Guide the contractor regarding any modification/changes in the design, specifications of items, during the course of execution of work.
- d. Certification of the Running Account Bills and Final Bills of the contractors with due recommendations on submission of bill by the contractor and submit to NABARD for sanction.
- e. The consultants association will continue from the beginning of the project work till its completion, settlement of the bills and during defect liability period. The consultant will plan the works in such a way that the project could be completed within the scheduled time specified in the tender of the project.

(ix) EMPLOYER shall mean National Bank for Agriculture and Rural Development (NABARD), Gujarat Regional Office, Opposite Municipal Garden, Usmanpura, Ahmedabad-380013.

(x) The competent authority shall mean **CGM NABARD, Gujarat Regional Office, Ahmedabad** and will include duly authorised representative / officials or any other person empowered by **CGM NABARD, Gujarat Regional Office, Ahmedabad** in this behalf to discharge all or any of their functions.

6. Where the context so requires words imparting the singular only include the plural and vice versa.
7. Headings and marginal notes to these conditions shall not be deemed to form part thereof or be taken into consideration in the interpretations or constructions thereof of the Contract.
8. Foreclosure of Contract in full or in part due to Abandonment or Reduction in scope of work:

If at any time after acceptance of the Tender EMPLOYER shall decide to abandon or reduce the scope of the works for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the EMPLOYER shall give notice in writing to the effect to the contractor and the contractor shall have no claim to any payment of compensations or other issues whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

9. TERMINATIONS OF CONTRACT FOR DEATH:



If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the partner dies then unless the Competent Authority is satisfied that the legal representative of the individual contractor or of the proprietor of the concern and in the case of partnership, the running partners are capable of carrying out and completing the contract the Competent Authority shall be entitled to cancel the contract / terminate the contract as to liable for payment of any compensations to the estate of the deceased Contractor and / or to the surviving partners of the Contractor's firm on account of the cancellations of the contract. The decision of the competent Authority that the legal representatives of the deceased Contractor or the surviving partner of the Contractor's firm cannot carry out and complete the contract shall be final and binding on the parties. In the event of such cancellation EMPLOYER shall not hold the estate of the deceased Contractor and / or the surviving partners of the Contractor's firm liable in damages for not completing the contract.

10. CANCELLATIONS OF CONTRACT IN FULL OR PART:

If the Contractor

- a) At any time makes default in proceeding with the work with due diligence and continues to do so after a notice in writing within 7 days from the EMPLOYER.
- b) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is to given to him in that behalf by the EMPLOYER.
- c) Fails to complete the works or items of works within individuals / particular date of completion on or before the date (s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the EMPLOYER.
- d) Offer or give or agree to give to any person in EMPLOYER's service or to any other person on his behalf any gift or considerations of any kind as an inducement or reward for doing or for bearing to do or for having done or fore borne to do any act in relations to obtaining or execution of this or any other contract for EMPLOYER.
- e) Obtain a contract with EMPLOYER as a result of running tendering or other non-bonafide methods of competitive tendering.
- f) Obtain / enter into a contract with EMPLOYER in connection with which commission has been paid or agreed to be paid by him or to his knowledge unless the particulars of any such commission and the terms of payments thereof have previously been disclosed in writing to the competent Authority.
- g) Being an individual or if a firm any partner thereof shall at any time being adjudged insolvent or have a receiving order or order for administration of liquidations or composition (other than a voluntary liquidations for the purpose of amalgamation or construction) under an insolvent act for the time being in force or make any conveyance in assignment of his effective or composition or arrangement for the benefit of his creditors or purpose so to, or if any applications be made under any Insolvency Act for the time being in force for the sequestration's of his estate or if a trust deed be executed by him for the benefit of his creditor or.
- h) Being a company shall pass a resolution or the court shall make an order for the liquidation of its affairs or a receiver or manager on behalf of the debenture holders shall



be appointed or circumstances shall arise which entitle the court or debenture holders to appoint a receiver or manager or.

- i) Shall suffer an execution being levied on his goods and allows it to be continued for a period of 21 days or.
- j) Assigns, transfer, sublets (engagement of labours on a piece work basis or of labour with materials not to be incorporated in the work shall not be deemed to be subletting) or attempts to assign transfer or subject the entire works or any portion of the work without prior approval of the Competent Authority.

The Competent Authority may without prejudice to any other right to remedy which shall have accrued or shall accrue thereafter to the EMPLOYER by written notice cancel the contract as a whole or only such items of work in default from the contract.

- 11. EMPLOYER shall on such cancellation have power to:
 - a) Take possession of the site and any materials, constructional plant / building etc., implements, stores etc.
 - b) Carry out the incomplete work by any means at the risk and cost of the contractor.
- 12. On cancellation of the contract in full or in part, the EMPLOYER shall determine what amount if any, is recoverable from the contractor for completion of the works or part of the works or in case of the works or part of the works is not to be completed, the loss or damage suffered by EMPLOYER. In determining the amount credit shall be given to the contractor for the value of contractor's materials taken over and incorporated in the work and use of tackle and machinery belonging to contractor.
- 13. Any excess expenditure incurred or to be incurred by EMPLOYER in completing the works or part of the works or the excess loss or damages suffered or may be suffered by EMPLOYER as aforesaid, after allowing such credit, shall be recovered from the contractor within 30 days.
- 14. If the contractor fails to pay the required sum within the aforesaid period of 30 days EMPLOYER shall have the right to sell any or all of the Contractor's unused materials, construction plant, implements, temporary buildings etc., and apply the proceeds of the sale thereof towards the satisfaction of any sums due from the Contractor under the contract and if thereafter there by any balance outstanding from the Contractor it shall be recovered in accordance with the provisions of the contract.
- 15. Any sums in excess of the amounts due to the EMPLOYER and unsold materials, construction plant etc., shall be returned to the contractor, provided always that if the cost or anticipated cost of completion by EMPLOYER of the work or part of the work is less than the amount which the contractor would have been paid and the completed the works or part of the works such benefit shall not accrue to the Contractor.

Section 1.01 : TENDERS, RATES ETC.

- 16. The work to be carried out under the contract shall except as otherwise provided in these conditions include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the schedule of quantities shall unless otherwise stated be held to included waste on materials, carriage and cartage, carrying in, return of empties, hoisting, setting, fitting and fixing in position and all other labours



necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles.

17. The attached bill of quantities is our best estimate of the job.
18. All the quantities therein are approximate, payments will be made on the actual measurements / certified by EMPLOYER.
19. EMPLOYER will have the right to omit, alter, add or cancel any of the items of work shown in the schedule without assigning any reason whatsoever and no claim for compensation will be entertained for the same, EMPLOYER is further at liberty to carry out any items of work departmentally or through any other contractor and no compensation will be paid to the main contractor on that account.
20. Work contained in the Schedule of Quantities comprises windows / doors, plastering / filling, electrical work and interior work within the premises.
21. Before submitting the Tender, the contractor shall visit and examine the site situated at AHMEDBAD and satisfy himself as to the nature and correct dimensions of the work for procuring various construction and other materials and shall obtain generally his own information on all matters and conditions affecting the execution of the works. No extra charge made in consequence of any misunderstanding or incorrect information on any of these points or on the grounds of insufficient description will be allowed.

The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the schedule of quantities which rates and prices shall except as otherwise provided cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.

22. It must be clearly understood that the whole of the conditions and specifications are intended to be strictly enforced and that no extra work will be allowed unless they are clearly outside the spirit and meaning of the conditions and have been ordered in writing by EMPLOYER.
23. Before filling the Tender, the Contractor will check all drawing and schedule of quantities and will get an immediate clarification from EMPLOYER as required on items not clearly understood. Any claim for any loss or compensation will not be entertained on this account.
24. The rates quoted by the Contractor shall be for finished work measured in site and should include supply of all materials labour, tools tackles, marking out and clearing of the site. **The rates shall be inclusive of General tax, sales tax, Goods & Service tax, octroi duty, works contract tax, VAT, CST, and any other duties / taxes / cess levied by the Government or other authorities.**
25. The rates quoted by the Contractors should also include for providing **all scaffolding, hoists, tackle and other plant**, shuttering profiles and apparatus generally required for the proper execution of the work. The contractors shall provide without extra charges all labour and apparatus required by EMPLOYER for testing and measuring the works and for weighing measuring, providing or testing the efficiency of any portion of the works and shall also at his own cost provide all planking gang ways, etc. necessary for affording access to every part of the works.



26. The rates quoted by the Contractor should cover for necessary transport of materials from place of availability to the site of works.
27. The Contractor is expected to quote rate for each item after careful analysis of cost involved for the performance of the completed item considering all specifications and conditions of contract. This will avoid loss of profit or gain in case of curtailment or change of specification for any item. In case it is noticed that the rates quoted by the tenderer for any item are unusually low, analysis for such rates will have to be furnished by the tenderer on demand, to satisfy EMPLOYER about the reasonableness of the rates.
28. Post completion of work, the tenderer will make necessary arrangements for obtaining No Objection Certificate (NOC) from fire department. If any rectification/ addition is suggested by fire department, corresponding work will be carried out by the contractor as per same terms and rates as of the tendered work and other relevant clauses of this tender viz. extra items etc. Faults, if any detected by fire department in the tendered work will have to be rectified without any additional cost to NABARD.

Section 1.02 : EXTRA ITEMS

29. The EMPLOYER shall have power to make any alterations in, omission from, addition to or substitutions for the schedule of rates the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work and the Contractor shall be bound to carry out the such altered / extra / new items of work in accordance with any instructions which may be given to him in writing signed by the EMPLOYER, and such alterations, omissions, additions or substitutions shall not invalidate the contract and any altered additional or substituted work which the contractor on the same conditions in all respects on which he agreed to do the main work. The time for completion of work may be extended for the part of the particular job at the discretion of the EMPLOYER, for only such alternations, additions or substitutions of the work, as he may consider as just and reasonable. The rates for such additional, altered or substituted work under this clause shall be worked out in accordance with the following provisions. :-
 - a) If the rates for the additional, altered or substituted work are specified in the contract for the work, the contractor is bound to carry out the additional, altered or substituted work at the same rates as are specified in the contract.
 - b) If the rates for the additional, altered or substituted work are not specifically provided in the contract for the work, the rates will be derived from the rates for similar class of work as are specified in the contract for the work. The opinion of the EMPLOYER, as to whether or not the rates can be reasonably so derived from the items in this contract, will be final and binding on the contractor.
 - c) If the rates for the altered, additional or substituted work cannot be determined in the manner specified in sub clause (a) & (b) above, then the contractor shall, within 7 days of the date of receipt of order to carry out the work, inform the EMPLOYER of the rate which it is his intention to charge for such class of work, supported by analysis of the rate or rates claimed, based on standard market rate analysis hand book published by NBO, and the EMPLOYER shall determine the rates on the basis of the prevailing market rates of materials and labour plus 15% for overheads and contractor profit and pay the contractor accordingly. The opinion of EMPLOYER as to current market rates of materials and labour involved will be final.
30. EMPLOYER shall issue instructions to the contractor in regard to what is to be done concerning on object reported by the contractor under the preceding sub -clauses and



such instruction may require to contractor to permit the examinations, excavations, or removal by a third party. The EMPLOYER may issue instructions to the contractor in regard the be removal and disposal of the same at the expenses of NABARD. If in the opinion of the EMPLOYER, the above activity led to indirect loss of time to the contractor, EMPLOYER may allow extension of time for the completion of work equal in period to assessed loss of time on this account. The contractor shall not be eligible to claim any financial compensation due to any delay to **NABARD, Regional Office** caused in this account.

31. EMPLOYER shall have the right to direct the contractor to purchase and use materials from any source for the proper execution of work.
 - i) Except if and to the extent otherwise provided by the contract, the provision of the general conditions of contract and special conditions shall prevail over those of any other documents forming part of the contract. Several documents forming the contract are to be taken as mutually, explanatory. Should there be any discrepancy inconsistency error or omission in the contract or any of them the matter may be referred to EMPLOYER who shall give his decisions and issue to the contractor instructions directing in what manner the work is to be carried out. The decision of the EMPLOYER shall be final and conclusive and the contractor shall carry out work in accordance with this decision.
 - ii) Works shown upon the drawing but not mentioned in the specifications or described in the specifications without being shown on the drawings shall nevertheless be held to be included in the same manner as if they had been specifically shown upon the drawings and described in the specifications.
32. EMPLOYER reserves the right to accept or reject any or all the tenders without assigning any reasons. In other words, **EMPLOYER** does not bind themselves to accept the lowest of any tender.
32. Tender submitted by tenderer shall remain valid for acceptance for a period of 3 months from the date of opening of the tender. The tenderer shall not be entitled during the said period of 3 months, without the consent in writing of EMPLOYER to revoke, or cancel his tender. In case of revoking or cancelling his tender, varying any terms in regard whereof without the consent of EMPLOYER in writing the tenderer shall forfeit earnest money paid by him along with the tender.
33. In case of discrepancies between schedule of quantities, the specifications and or the drawings thereof, the following order of preference shall be observed.
 - i) Descriptions in Schedule of Quantities.
 - ii) Particular specification and special conditions, if any.
 - iii) Drawings:

In any case the most stringent of the above three shall apply. The decision of the EMPLOYER in this regard is final.
34. In case of varying or conflicting provisions made in any one document forming part of the Contract, EMPLOYER shall be the deciding authority with regard to the intentions of the documents.
35. Any error in descriptions, quantities or rates in schedule of quantities or any omissions there from shall not vitiate the contract or release the contractor from the execution of



the whole or any part of the work comprised therein according to drawings and specifications or from any of his obligations under the contract.

Section 1.03 : PAYMENT TERMS, MEASUREMENT, DEFECTS LIABILITY

36.

i) Part payment of **minimum Rs. 10 lakhs** will be made against running bills within 15 days from the date of receipt of certified bills by the disbursement section of **EMPLOYER**. In case of final bill this payment period will be 60 days, after all documents regarding reconciliation of **EMPLOYER** issued materials, guarantees for anti-termite treatment & water proofing treatment, detailed rate analysis of extra items if any (duly approved by the **EMPLOYER**), statement for payments at reduced rates, statement for deductions for any other reason are submitted by the contractor and they are duly approved / accepted by **EMPLOYER**.

ii) Income tax / cess / taxes / other / statutory levies if any shall be deducted from every running bills and final bill payment as applicable from time to time as per Government of India / State Government.

37. All running bills as well as final bills submitted in approved Performa shall be submitted by the contractor in quadruplicate for certification. All the bills shall be accompanied by measurement sheets and quantity calculation in support of the quantities contained in the bill with soft and hard copies.

38.

i) All the works in progress will be jointly measured by the representative of **EMPLOYER** and the contractor progressively. Such measurements will be got recorded in the measurement book by the **EMPLOYER** and signed in token of acceptance by the contractor or his authorized representative.

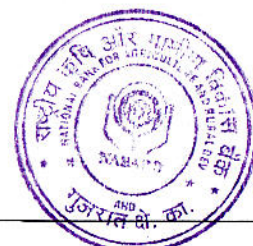
ii) All items having a financial value shall be entered in the measurement books, level book etc. prescribed by **EMPLOYER** that complete record is obtained of all work performed under the contract.

iii) For the purpose of taking joint measurements the contractor's representative shall be bound to be present whenever required by the **EMPLOYER**. If, however, he refrains for any reason whatsoever the measurements will be taken by the **EMPLOYER** or his representative and these will be deemed to be correct and binding on the contractor.

iv) The contractor shall without extra charges provide assistance with every appliance, labour and other things necessary for measurement of work.

39. METHODS OF MEASUREMENTS:

Except where any general or detailed description of work in quantities expressly shows to the contrary schedule of quantities shall be deemed to have been prepared and measurements shall be taken in accordance with the procedure laid forth in specifications notwithstanding any provisions in the relevant standard method of measurement or any general or local custom. In the case of items which are not covered by the specifications, measurements shall be taken in accordance with the relevant and latest standard method of measurement issued by the Bureau of Indian Standards.



40. The contractor shall guarantee the installation / work for a period of 12 months from the date of issue of completion certificate. Any damage or defect that may arise or lie undiscovered at the time of issue of completion certificate, connected in any way with the equipment or materials supplied by him or in the workmanship shall be rectified or replaced by the contractor at his own expense as deemed necessary by EMPLOYER or in default, EMPLOYER may cause the same to be made good by other workmen and deduct expenses (of which the certificate of EMPLOYER shall be final) from any sums that may be the or at any time thereafter, become due to the contractor or from his security deposit, or the proceeds of sale thereof, or of a sufficient portion thereof.

At the end of the defects liability period the contractor shall submit a written application for release of retention money. EMPLOYER shall release the money only after ensuring that all the defects have been rectified by the contractor satisfactorily.

41. Any amount found due from the contractor to EMPLOYER from time to time will be recovered currently from the running bills. Similarly if, at any time, should there evidence of any lien or claim for which EMPLOYER might have become liable and which is chargeable to the contractor, EMPLOYER shall have the right to retain out of any payment then due or thereafter to become due an amount sufficient to completely indemnify EMPLOYER against such lien or claim and if such lien or claim remain unsettled after all payments are made, the contractor shall refund or pay to the owner all money that the latter may be compelled to pay in is charging such lien or claim including all costs reasonable expenses.
42. The contractor will be fully responsible for rectifying any defects brought to his notice by EMPLOYER/ project Architect in writing within seven days of receipt of the intimation. In case the contractor fails to attend to defects as stipulated therein, EMPLOYER reserves the right to complete the rectification through another agency of its choice and recover the cost of such repairs from the contractor's dues against running bills / final bill / retention money for this or any other job.
43. Bank Guarantee/UTR No/Receipt No. of Earnest money deposit amounting to **Rs. 33,750/-** (Rupees Thirty Three Thousand Seven Hundred Fifty Only) must accompany the tender addressed to the **CGM, NABARD, Gujarat Regional Office, 2nd. Floor, NABARD TOWER, Usmanpura, Ahmedabad.** On acceptance of the tender, the successful tenderer shall, within the time stipulated in the letter of intent, deposit with the EMPLOYER through **Bank Guarantee (BG)** from any Nationalized Bank / Scheduled Bank as per the Annexure-E or NEFT/RTGS, Initial Security Deposit (ISD) equivalent to 2% of contract value. ISD is in addition of Earnest Money Deposit (EMD). Further Retention Money Deposit (RMD) of 5% of Running Bill will be deducted. In total amount equal to 10% of contract value will be retained by the EMPLOYER towards security deposit. Security Deposit includes ISD, EMD and RMD.
44. The tenderer shall also have the option to pay a lump sum security deposit of 5% (Five percent) of the total value of the contract minus the amount of Earnest money already deposited in the form of NEFT/RTGS. In such an event, no deduction of retention money shall be made on this account except for payment in respect of extra work done which shall be subject to a retention of 5% (Five percent) of their value, unless the contractor elects to pay such Security Deposit in lump sum in foregoing manner. The amount of initial security deposit shall, however, be adjusted towards this account.

Section 1.04 : LIABILITY FOR DAMAGE, DEFECTS AND RECTIFICATION THEREOF

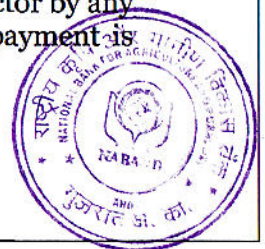


45. If the Contractor or his workmen or employee shall injure or destroy any part of the building in which they may be working or any building road, fence etc., contiguous to the premises on which the work or any part of it is being executed or if any damage shall happen to the work while in progress, the contractor shall upon receipt of a notice in writing in the behalf make the same good at his own expenses. If it shall appear to the EMPLOYER or his representative at any time during the construction of re-construction or prior to expiration of defects liability period that any work has been executed with unsound, imperfect or unskilled workmanship or that any materials or articles provided by the contractor for execution of the work are unsound or of a quality inferior to that contract for, or otherwise not in accordance with the contract or that any defect, shrinkage or other faults have appeared in the work arising out of defective or improper materials or workmanship, the contractor shall upon receipt of a notice in writing in that behalf from the EMPLOYER forthwith rectify or remove or reconstruct the work so specified in whole or in part as the case may require or as the case may be and / or remove the materials or articles so specified and provide other proper and suitable material or article.
46. At his own expenses, notwithstanding that the same may have been inadvertently passed, certified and paid for and in the event of his failing to do so within the period to be specified by the EMPLOYER may rectify or remove and re execute the work and / or remove and replace with other, materials or articles complained of, as the case may be by either means at the risk and expense of the Contractor.
47. In case of repairs and maintenance works, splashes and droppings from white washing, painting etc., shall be removed and surface cleared simultaneously with completing of these items of work in individual rooms, quarters or premises etc., where the work is done without waiting for completion of all other items of work in the contract. In case the contractor fails to comply with the requirement of this condition the EMPLOYER shall have the right to get the work done by other means at the cost of the Contractor. Before taking such action, however, the EMPLOYER shall give three days' notice in writing to the contractor.

48. OVER PAYMENTS AND UNDER PAYMENTS:

Wherever any claim for the payment of a sum of money to EMPLOYER, out of or under this contract against the Contractor the same may be deducted by EMPLOYER from retention money / Security deposit or any sum then due or which at any time thereafter may become due to the contractor under this contract and failing that under any other contract with EMPLOYER, or from any other sums due to the contractor from EMPLOYER, which may be available with EMPLOYER, he shall pay within ten days the claim through NEFT/RTGS.

49. EMPLOYER, reserves the right to carry out post payment audit and technical examinations of the Running / final bill including all supporting vouchers, abstracts etc. EMPLOYER, further reserves the right to enforce recovery of any overpayments when detected, notwithstanding the fact that the amount of the final bill may be included by one of the parties as items of disputes before an arbitrator appointed under condition of this contract and notwithstanding the fact that the amount of the final bill figures in the arbitration award.
50. If as a result of such audit and / or technical examinations any overpayments is discovered in respect of any work done by the contractor or alleged to have been done by him under the contract it shall be recovered by EMPLOYER from the Contractor by any of all methods or made of recovery as prescribed above or if any under payment is discovered, the amount shall be duly paid to the contractor by EMPLOYER.



Section 1.05 : COMPLETION PERIOD AND PENALTY CLAUSE

51. The Contractor shall commence work within 7 days from the date of receipt of work order from EMPLOYER. The contractor will be required to submit the security deposit within 7 days from the date of receipt of work order if it has not been done earlier.
52. Completion period for the entire work contained in the tender and such of the extra items, if any, which form an integral part of the contract, contained in the tender is **90 days** from the 10th day of date of issue of work order at site as specified in above. The time limit specified herein will be strictly adhered to and will form the essence of the Contract. In case of delay in completion of job beyond the stipulated time penalty would be levied @ 0.25% per extra week taken by contractor i.e. more than scheduled time / period, subject to maximum of 5% of the actual cost of project.
53. **EMPLOYER**, shall have the right to terminate the contract if progress of the work is found to be unsatisfactory and there are no efforts from the contractor's side to make up for the delays if any.

Section 1.06 : COMPLETION CERTIFICATE

54. The work shall be considered "Virtually Complete" only after the Contractor submits to **EMPLOYER**, the following documents obtained by him through his licensed civil engineer/ architect etc.
55. As soon as the work is completed the contractor shall give notice of such completion to **EMPLOYER** and within thirty days of receipt of such notice **EMPLOYER**, shall inspect the work and shall furnish the contractor with a certificate of completion indicating.
 - a) The date of completion.
 - b) Defects to be rectified by the Contractor and / or.
 - c) Items for which payment shall be made at reduced rates.

When the separate periods of completion have been specified for items or groups of items, shall issue separate completion certificate for such item or group of items. No certificate of completion shall be issued, nor shall the work be considered complete till the contractor shall have removed from the EMPLOYERs premises on which the work has been executed all scaffolding, sheds, temporary structures and surplus materials except such as are required for rectification of defects, removal all huts and sanitary arrangements required for his workmen on the site in connection with the execution of work as such have been erected by the Contractor or the workmen and clear all dirt from all parts of the building (s) in upon or about which the work has been executed thereof and clean floor, all gutters and drains, ease doors and shutters, oil locks and fastenings, labelled keys clearly and handed them over to EMPLOYER or his representative and made the whole premises fit for immediate occupations or use to the satisfaction of the EMPLOYER. If the contractor fails to comply with of the requirements of these conditions as aforesaid on or before the date of completion of the works, may at the expense of contractor arrange to remove scaffoldings, surplus materials and rubbish etc., as he thinks fit and the contractor shall have no claims in respect of any such scaffolding or surplus materials except for any sum actually realized by the sale there of less the cost of fulfilling to requirements any other amount that may be due from the contractor.



If the expense of fulfilling such requirements is more than the amount realized on such disposal as aforesaid the contractor shall forthwith on demand pay such excess.

56. The whole of the work including all extra and additional items if any and when ordered are to be completed in the time stated in the contract and the contractor will be required if necessary, to work over time to stick to requirements to complete all the works by the stipulated date. No extra claim for extension of completion period will be allowed on account of this factor.
57. The completion period of the entire work as stated above shall be deemed to be the essence of the contract. In case of delay in completing the work beyond the specified completion date the contractor will be required to pay a penalty at the rate of 0.25% for each extra week taken by contractor i.e. more than scheduled time / period subject to maximum of 5% of the actual cost of the project. The penalty will be recovered either from the contractor's bills or from the Security Deposit / Retention Money.
58. In case of delay of over 10 weeks in completion of the work beyond a stipulated completion date, EMPLOYER reserves the right to terminate the contract and get all the jobs completed through another agency of its choice. Any extra expenditure that EMPLOYER will have to incur for completion of the balance jobs through another agency on account of higher rates quoted by the agency will be recovered from the contractor's Security Deposit, Retention Money and pending bills.

59. Extension of completion period

If the work is delayed by

- a) Force Majeure or
- b) Serious loss or damage by fire or
- c) Civil commotions, local combinations of workmen, strikes or lockout affecting any of the trades employed on the work, or
- d) Delay on the part of other contractors or tradesman engaged by in executing work not forming part of contract.

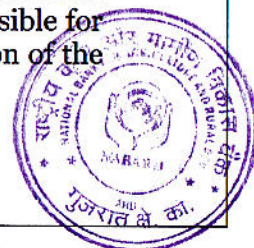
Request for extension of time to be eligible for considerations, shall be made by the contractor in writing within fourteen days of the happening of the event causing delay. The contractor may also if practicable, indicate in such a request the period for which extension is desired.

In any such case EMPLOYER may give a fair and reasonable extension of time for completion of work. Such extension shall be communicated to the Contractor by in writing within one month of, the date of receipt of such request by.

SITE FACILITIES

SETTING OUT OF WORK

60. The EMPLOYER shall not provide/ supply dimensioned drawings. The contractor, post award of work, will prepare appropriate dimensioned drawings in consultation with the employer/ consultant subject to the constraint of space on account of existing building/ land, irrespective of the availability of drawings/layout of existing building. The contractor will submit a certified copy of drawings to the employer. The Contractor shall provide all setting out apparatus required and set out the works and be responsible for the accuracy of the same. He shall amend at his own cost and to the satisfaction of the



EMPLOYER any error found at any stage which may arise though inaccurate setting out unless such error(s) is / are based on incorrect data furnished in writing by the EMPLOYER in which case the cost shall be on the account of the EMPLOYER.

61. SITE DRAINAGE:

All water which may accumulate on the site during the progress of works or in trenches and excavations from other than the expected risks shall be removed from the site to the satisfaction of the EMPLOYER at the Contractor's expenses.

62. NUISANCE

The contractor shall not at any time do cause or permit any nuisance on the site or do anything which shall cause unnecessary disturbance or inconvenience to others at or near the site of work.

63. The contractor shall at all times give access to the staff of statutory bodies as well as other agencies associated with the project.

64. The Contractor shall provide at his cost all temporary lighting arrangement required for the works and to enable contractors and sub-contractors to complete the works in the specified time including that for the workmen of any sub – contractors or special tradesmen.

EMPLOYER shall provide electricity power for the works at one point. The necessary all electrification, wiring, lighting arrangement (including separate meter installation) shall be made available by the contractor and for which contractor shall not be paid any charges.

64. WATCHING AND LIGHTING:

The contractor shall provide and maintain at his own expense all lights, guards, fencing and watching when and wherever necessary or required by the EMPLOYER for the protection of the works or for the safety and convenience of those employed on the works or the public.

EQUIPMENT & STAFF ASSISTANCE FROM THE CONTRACTOR

65. Theodolite, levels, plumb bobs, prismatic compass, chain, steel and metallic tapes and all other surveying instruments found necessary on the works shall be provided by the Contractor for the due performance of their contract. The EMPLOYER will use any or all measurement instruments or tools belonging to the Contractor as and when he chooses for checking the complete works as well as the work in progress.

66. All scaffolding and ladders that may be necessary for taking measurement at site will be provided by the Contractor.

67. The Contractor shall provide all the equipment and machinery in good working condition at site during the entire period of construction as and when required.

(a) The Contractor will be allowed to work for 8 (Eight) hours a day and 7 (Seven) days a week. However, no concreting shall be done during night or in the absence of the EMPLOYER. For working beyond normal working hours and non-working days, the Contractor shall obtain prior permission from the EMPLOYER.



EXECUTION

68. The Contractor shall not be permitted to enter on (other than for inspection purposes) or take possession of site until instructed to do so by the EMPLOYER in writing. The portions of the site to be occupied by the Contractor shall be defined and / or marked on the site plan failing which these shall be indicated by the EMPLOYER at site and the operations beyond the areas. In respect of any land permitted by the EMPLOYER for the use of the Contractor for the purpose of or in connection with the contract. The same shall be subject to the following and such other terms and conditions as may be imposed by the EMPLOYER.

69. Such use or occupations shall not confer any right of tenancy of the land to the contractor.

70. The Contractor shall have no right to put up any constructions of his own of any nature or type on land except temporary constructions for storage of equipment for the work under the contract or as a resting place for labourers employed by him for the work provided that he obtained the requisite previous permission in writing from the EMPLOYER. Such construction will be erected at the contractor's own cost.

If any electricity is used in any of such constructions the Contractor shall himself pay for the same. The Contractor shall at his own cost demolish all such constructions and remove the debris thereof, as also all his materials and equipment and clean and level the site thereof before handing over the completed work to.

71. The Contractor shall provide if necessary or if required on the site all temporary access thereof and shall alter adapt and maintain the same as required from time to time and shall take up and clear them away as and when no longer required and as and when ordered by the EMPLOYER and made good all damages done to the site. The Contractor shall note that the final bill will not be certified for the payment till the action as above is completed by the Contractor to the entire satisfaction of the EMPLOYER.

72. All the work shall be carried out as per detailed drawings and instructions of the EMPLOYER.

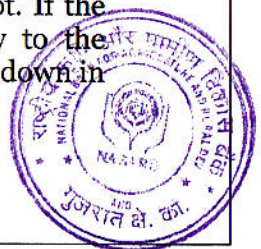
73. All preliminary drawings (if any), tracings, photo prints and writings (except letter) shall be the sole property of the EMPLOYER and must be returned to them on completion of the works.

74. The drawings maintained on the site are to be carefully mounted on boards of appropriate size and covered with a coat of approved varnish. They are to be protected for ravages of termites, ants, silver fish and other insects.

75. During the execution of the work, Contractor must check his work with the drawings. The Contractor shall be responsible for all the errors in this connection and shall have to rectify all defects and / or error at his own cost, failing which the EMPLOYER reserves the right to get the same rectified at the risk and cost of the Contractor.

MATERIAL TO BE PROVIDED BY THE CONTRACTOR.

76. The Contractor shall at his own expense and without delay supply to EMPLOYER, samples of materials proposed to be used in the work. The EMPLOYER shall within 15 days of supply of samples or within such period as he may require intimate to the Contractor in writing and inform the Contractor whether samples are approved by him or not. If the samples are not approved, the Contractor shall forthwith arrange to supply to the EMPLOYER for his approval fresh samples complying with the specification laid down in



the contract. A set of all approved samples shall be maintained at site under lock & key by EMPLOYER.

77. The EMPLOYER shall have full power to require removal of any or all the materials brought to the site by the Contractor which are not in accordance with the contract specifications or do not conform in character or quality to sample approved by him. In case of default on the part of the Contractor in removing rejected materials, the EMPLOYER shall be at liberty to have them removed by other means. The EMPLOYER shall have full power to procure other proper materials and in the event of the Contractor refusing to comply, he may cause the same to be supplied by other resources. All costs which may attend upon / incurred upon such removal and / or substitution shall be borne by the Contractor.
78. The Contractor shall indemnify the EMPLOYER or its employee against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent design rights and shall pay any royalties or other charges which may be payable in respect of any articles or materials or part thereof included in the contract. In the event of any claim being made or action being brought against EMPLOYER or any agent, servant or employees of EMPLOYER in respect of any such matters, as aforesaid, the Contractor shall immediately be notified thereof.
79. The EMPLOYER shall be entitled to have tests carried out as specified in the contract for any materials supplied by the Contractor, other than those for which as stated above, satisfactory proof has already been furnished, at the cost of the Contractor and the Contractor shall provide at his expense all facilities which the EMPLOYER require for the purpose. IF no tests are specified in the contract and such tests are required for the purpose and the charges for these tests shall be borne by the Contractor only. The cost of materials consumed in the test shall be borne by the Contractor in all cases except when otherwise provided.
80. EMPLOYER shall be entitled at any time to inspect and examine any materials intended to be used in or on the work, either on the site or at factory or workshop or at other place (s) manufactured or at any places where these are laying or from which these are being obtained and the Contractor shall give such facilities as may be required for such inspection and examination.

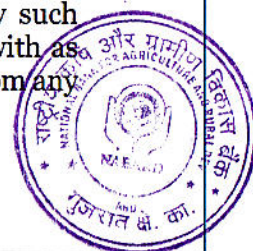
81. LABOUR

The Contractor shall employ labour in sufficient number either directly or through sub – contractors when such subletting is permitted to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the contract and to the satisfaction of the EMPLOYER. The Contractor shall not employ in connection with the works any person who has not completed his Eighteenth year of age.

82. In case of any class of work for which there is no such specification supplied by the EMPLOYER as is mentioned in the tender documents, such work shall be carried out in accordance with Indian Standard Specifications and if the Indian Standard Specifications do not cover the same the work should be carried out as per standard Engineering practice subject to the approval of the EMPLOYER.
83. The contractor shall on the written request of EMPLOYER immediately dismiss from the works any person employed by him therein who may in the opinion of the EMPLOYER be incompetent or misconduct himself and such person shall not again be employed on the works without the written permission of the EMPLOYER.



84. In case of any default or failure on Contractor's part to comply with all / any one of the Terms / Conditions, NABARD reserves to itself the right to take necessary steps to remedy the situation including, inter-alia, the deduction of appropriate amount/ s from dues otherwise payable to Contractor and / or by taking recourse to appropriate recovery proceedings.
85. The Contractor or his agent shall be in attendance at the site (s) during all working hours and shall supervise / superintend the executions of works with such additional assistance in each trade as the EMPLOYER may consider necessary. Order given to the Contractor agent shall be considered to have the same force as if they have been given to the Contractor himself.
86. The EMPLOYER shall communicate or confirm his instructions to the Contractor in respect of the executions of work in a "work site order book" maintained in the office authorised representative shall confirm receipt of such instructions by signing the relevant entries in the book.
87. The contractor will ensure that any oral instruction issued by the EMPLOYER or its staff are confirmed by the latter in writing.
88. The Contractor shall provide and do everything necessary for the proper execution of the works according to the true intent and meaning of the drawings and specifications taken together, whether the same may or may not be particularly shown on the drawings, or described in the Schedule of Quantities, provided that the same can be reasonably inferred therein from. Figured dimensions and all dimensions and particulars to be taken from the actual work.
89. The whole of the work must be proceeded with such sections and at such times as directed by the EMPLOYER.
90. The EMPLOYER may from time to time issue further drawings or written instructions which are hereafter collectively referred to as 'EMPLOYER's Instructions' in regard to:
 - a) The variation or modification of the design, quality or quantity of works or the addition or omission or substitution of any work.
 - b) Any discrepancy in the drawings or between the schedule of quantities and / or drawings and / or specifications.
 - c) The removal from the site of any materials brought thereon by the contractor and the substitution of any material there of.
 - d) The removal or re-execution or both of any works executed by the Contractor.
 - e) The dismissal from the works of any persons employed there upon.
 - f) The opening up for inspection of any work covered up.
 - g) The amending and making good of any defects of works improperly carried out.
91. If the Contractor after receipt of written notice form the EMPLOYER requiring compliance within seven days fails to comply with such drawings or EMPLOYER instructions or both as EMPLOYER may issue, may employ and pay other persons to execute any such drawings or EMPLOYER's instructions and all cost incurred in connection therewith as certified by the EMPLOYER shall be borne by the Contractor or may be deducted from any

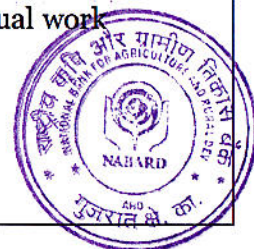


amount due or that may become due to the contractor under the contract or may be recovered as a debt.

92.INSPECTIONS AND APPROVALS:

The execution of work will be of best quality and as per general specifications, list of standards and list of approved materials indicated in the Tender document. All works embracing more than one process shall be subject to examinations and approval at each stage thereof and the Contractor shall give due notice to the EMPLOYER who shall be entitled to appraise the quality and extended thereof.

93. No work shall be covered up or put out of view without approval of EMPLOYER or his authorized representative and the Contractor shall afford full opportunity for examination and measurement of any work which is about to be covered up or put out of view and for examination or foundations before permanent work is placed thereon. The Contractor shall give due notice to the EMPLOYER or his authorised representative wherever any such work or foundation is ready for examination and the EMPLOYER or his representative shall without unreasonable delay unless he considers it unnecessary and advises the Contractor accordingly attend for the purpose of examination and measuring such work or of examining such foundation he shall, if required by the EMPLOYER uncover such work at the Contractor's expenses.
94. The duties of the representative of EMPLOYER are to watch and supervise the progress of works and to test and examine any materials to be used or workmanship employed in connection with the works. They shall have no authority to order any work involving any extra payment by the EMPLOYER or to make any variations in the works except when authorised by the EMPLOYER.
95. The EMPLOYER may from time to time in writing delegate to his representative any of the powers and authorities vested in him and shall furnish to the contractor a copy of all such written delegation of powers and authorities. Any written instructions or written approval given by the representative of EMPLOYER to the Contractor within terms of such delegations shall bind the Contractor and the Architect as though it had been given by EMPLOYER.
96. Failure of the representative of EMPLOYER to disapprove any work or materials shall not prejudice the power of the EMPLOYER thereafter to disapprove such work or material and to order pulling down removal or breaking up thereof.
97. If the Contractor is dissatisfied with any decisions of the representative of the EMPLOYER he shall be entitled to refer the matter to EMPLOYER who shall thereupon confirm, reverse or vary such decisions.
98. The whole of the materials (except where otherwise described), stores and equipment required for the faithful performance of the contract must be provided through normal trade channel and must include for sales Tax, GST, Octroi VAT, CST, and Duties and other charges and must be the best of their kind available at the time and the Contractor must be responsible for the proper and efficient carrying out of the work. The work must be done in best and most workmanlike manner. Samples of all materials to be used must be submitted to the EMPLOYER on the site for approval prior to procurement. The Contractor shall furnish to the EMPLOYER for approval when requested or if required by the specifications, adequate samples of all materials and finished to be used in the work. Such samples shall be submitted before the work is commenced and in ample time to permit tests and examinations thereof. All materials finished and applied in actual work shall be fully equal to the approved samples.



99. During inclement weather the Contractor shall suspend concreting and plastering for such time as the EMPLOYER may direct and shall protect from injury all works in the course of erection.
100. Should the work be suspended by reason of rain, strike, lockouts or other cause the Contractor shall take all precautions necessary for the protection of the work and at his own expense shall make good any damages arising from any of these causes.
101. The Contractor shall keep accurate records of weather, temperature, visitors and any other occurrences affecting the progress or quality of the works.
102. All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of the works and at completion including that of sub – Contractor and specific tradesman to be cleared and carted away and all materials condemned by the EMPLOYER shall be removed from site as and when required during the entire duration of the work at no extra cost.
103. The Contractor shall protect all projecting sills and mouldings and all concrete steps from injury during the progress of the work by rough timber casings securely fixed.
104. The Contractor shall provide all necessary templates, moulds for circular or shaped work, carpenters or joiners work or any other trade.
105. The Contractor shall protect joinery and make good all damages to the same from any cause whatsoever during the performance of the contract and leave perfect to the satisfaction of the EMPLOYER at the time of completion. Before giving up possession, the contractor must see that all doors sashes etc. work easily and shall make all necessary adjustments.
106. The Contractor shall provide suitable stone with flat tops and build the same in concrete for temporary bench marks. All the pegs for setting out the work and fixing the necessary levels required for the execution thereof shall if desired by the EMPLOYER likewise be built in masonry at such places and in such manner as may determine.
107. Particular care must be taken to see that the floors are not overloaded by stacks of materials during construction. It is important that no load comes on the reinforced concrete floors until they are at least 3 weeks old and at no time must the load placed upon them exceed the load for which they are designed.
108. The Contractor has to provide all necessary holes, slits and depression etc. in form work and concrete to place pipelines or ancillary services in any form as shown in the drawings or as directed by
109. The Contractor shall cover up and protect from injury from any cause all new work also for supplying all temporary doors, protection to windows and any other requisite protection for the whole of the works executed whether by himself or specified tradesmen or sub-contractors and any damage caused must be made good by the contractors at his own expenses.
110. The Contractor shall provide temporary teakwood barricading up to 4' 0" height from the floor level to all lift walls and / or shafts opening on all floors to safeguard against any accidental fall and maintain them till such time as permanent enclosures are installed. No extra payment will be allowed on the contract sum for complying with this clause.



Section 1.07 STATUTORY

111. The contractor shall conform to the provisions of any regulations and by – laws of any water or lighting companies with whose system the structures are proposed to be connected and shall before making any variations from the drawings that may be necessitated by so conforming give to EMPLOYER on site written notice specifying the variations proposed to be made and the reason for making to and apply for instructions thereon. In case the contractor shall in due course receive instructions, he shall proceed with the work, conforming to the provision regulations or by-laws to the supply companies and shall provide for and pay all fees and charges.
112. The contractor will be fully responsible for complying with all relevant provisions of the Contractor Labour Act and shall pay rates of Wages and observe hours of work / conditions of employment according to the rules in force from time to time.
113. The contractor shall comply with provisions of payment as per the following acts:

Payment of wages Act, 1936
Workmen's Compensation Act, 1923
Industrial Dispute Act, 1947
Minimum Wages Act, 1948
Employees State Insurance Act, 1948
Maternity Benefit Act, 1961
Mines Act, 1952 or

Any amendments / modifications thereof or any other law relating thereto and rules made thereunder from time to time. EMPLOYER shall on a report having being made by an inspecting officer as defined in the contract labour regulations have the power to deduct from the money due to the Contractor any sum required or estimated to be required for making good the loss suffered by a worker (s) by reasons of non– fulfilment of conditions of contract for the benefit of workers non– payment of wages or of deductions made from his or their wages which are not justified by the terms of contract or non-observance of the said contractor's labour Regulation.

114. The contractor shall pay to labour employed by him, and in the case of his giving any part of the work on sub – contract he shall ensure and be responsible to see that the sub – contractor pays to labour employed by such contractor, wages not less than wage or remuneration as provided in the contract labour (Regulations and Abolition Act) and in the Rules, Regulations and orders.
115. The Contractor shall indemnify the EMPLOYER against any payments to be made under and for observance of the Regulations aforesaid without prejudice to his rights to claim indemnity from his sub - contractor.

Section 1.08 : SAFETY CODE:

116. The Contractor shall at his own expenses arrange for the Safety provisions as required for these conditions or as required by the EMPLOYER in respect of all labours directly or indirectly employed for performance of the works and shall provide all facilities in connections therewith. In case the contractor fails to make arrangements and provide necessary facilities as aforesaid, the EMPLOYER shall be entitled to do so and recover the cost thereof from the Contractor.

Safety precaution to be taken in all respects (till completion of works) including for all concern human being. The contractor shall be responsible for any damage or loss of part / limb or death human being.



117. From the commencement to the completion of the works, the contractor shall take full responsibility for the care thereof and of all the temporary works (defined as meaning all temporary works of every kind required in or for the execution, completion or maintenance of the works). In case of damage, loss or injury shall happen to the works or to any part thereof or to temporary works or to any cause whatsoever (save except the Expected risks as defined in the Tender Document), repair at his (Contractor's) own cost and make good the same so that at the time of completion, the works shall be in good order and condition and in conformity in every respect with the requirements of the contract and instructions. In the event of any such damage, loss or injury happening from any of the Expected Risks, the contractor shall, if any, to the extent required by the EMPLOYER, repair and make good the same as aforesaid, at the cost.

Section 1.09 INSURANCES

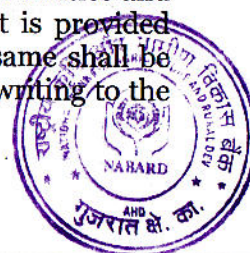
118. The Insurance for the following will be covered and paid for by the contractor, and contractor shall indemnify the EMPLOYER and hold the EMPLOYER harmless in respect of all and any expenses arising from any such injury and / or damages in respect of:
- a) Workmen's Compensation and Risk of Accidents to contractor's own employees.
 - b) Contractors all risk Insurance to cover the total cost of project with third party coverage for total value of Rs. 2,00,000/- with value per accident not exceeding Rs. 50,000/-.
119. If the contractor fails to effect and keep in force the Insurance referred to above or elsewhere in the contract or any other insurance which he may be required to effect and keep in force, the EMPLOYER reserves the right to keep in force such insurances and pay such premium as may be necessary for the purpose and from time to time deduct the amount so paid by the EMPLOYER, as aforesaid, from any monies due or which becomes due to the contractor or recover the same as a debt from the contractor.
120. The aforesaid insurance policy / policies shall not be cancelled till EMPLOYER has agreed to their cancellation.
121. The Contractor shall prove to EMPLOYER from time to time that he has taken out all insurance policies referred to above and has paid the necessary premium for keeping the policies alive till the expiry of the defects liability period. Above instructions on insurance coverage will also be applicable to the sub-contractor, if any, of the contractor.

Section 1.10 : NOTICE TO LOCAL BODIES.

122. The contractor shall comply with and give all notices required under any Government authority, instrument, rule or order made under any act of parliament, state laws or any regulations or by-laws of any local authority relating to the works. He shall before making any variations from the contract drawings necessitated by such compliance give to the EMPLOYER a written notice giving reasons for the proposed variations and obtain the site EMPLOYER's instruction therein.

Section 1.11 : ARBITRATION

123. If any dispute, difference or question shall at any time arise between the parties as to the construction of this Agreement or concerning anything or as to the rights, liabilities and duties of the parties hereunder, except in respect of matters for which it is provided hereunder that the decision of the EMPLOYER is final and binding, the same shall be referred to conciliation or arbitration after giving at least 30 day notice in writing to the



referred to conciliation or arbitration after giving at least 30 day notice in writing to the other party (herein after referred to as the "Notice for Conciliation / Arbitration") clearly setting out the items of dispute to a Conciliator or the Sole Arbitrator who shall be appointed as herein. The EMPLOYER shall send to the Contractors, within thirty days of the Notice of Conciliation / Arbitration, a panel of three names of persons who shall be presently unconnected with the organization of the EMPLOYER or the Contractors.

The Contractor shall, on receipt of the names as aforesaid, select any one of the persons so named to be appointed as the Conciliator or Sole Arbitrator, as the case may be, and communicate his name to the EMPLOYER within fifteen days of receipt of the names. The EMPLOYER shall thereupon without any delay, appoint the said person as the Conciliator or Sole Arbitrator.

If the EMPLOYER fails to send to the Contractors, the panel or three names as aforesaid within the period specified, the Contractor shall send to the EMPLOYER, a panel of three names of persons who shall be unconnected with either party. The EMPLOYER shall, on receipt of the names as aforesaid, select any one of the person's name and appoint him as the Conciliator or Sole Arbitrator. If the EMPLOYER fails to select the person and appoint him as the Conciliator or Sole Arbitrator within thirty days of receipt of the panel and inform the Contractor accordingly, the Contractor shall be entitled to appoint one of the persons from the panel as the Conciliator or Sole Arbitrator and communicate his name to the EMPLOYER.

If the person so appointed is unable or unwilling to act or refuses his appointment or vacates his office due to any reason whatsoever, another person shall be appointed as aforesaid.

The Conciliation / Arbitration shall be governed by the Conciliation and Arbitration Act, 1996 as in force from time to time. Where the parties do not agree with the Conciliator and appoint an Arbitrator (s) the award of the Arbitrator (s) shall be final and binding on the parties. It is hereby agreed that in all disputes referred to Arbitration, the Arbitrator shall give a separate Award in respect of each dispute or difference in accordance with the terms of the reference and the Award shall be a reasoned Award.

The fees, if any, of the Conciliator or the Arbitrator shall, initially are paid in equal proportion by each of the parties. The cost of the Conciliation / Arbitration including the fees, if any, of the Conciliator or the Arbitrator, shall be directed to be finally borne by such partly or parties to the dispute, in such matter or proportion as may be directed by the Conciliator or the Arbitrator, as the case may be in the Award.

The EMPLOYER and the Contractor also hereby agree that the Arbitration under this Clause shall be a condition precedent to any right to action under the contract with regard to the matters hereby expressly agreed to be so referred to Arbitration.

DECLARATION BY THE CONTRACTOR

We / I have read and understood all the instructions / conditions made above and we / I have taken into account the above Instructions / Terms and Conditions while quoting the rates. We / I accept all the above Terms and Conditions without any reservation, in all respects.

Place:

DATE:

(SIGNATURE OF THE TENDERER)

NAME and SEAL

ADDRESS:



SPECIAL CONDITIONS OF CONTRACT

1. It shall be distinctly understood that notwithstanding the reviews and suggestion if any, by the EMPLOYER, the sole and ultimate responsibility for the stability and performance of the form work and staging and all other temporary works shall be that of the Contractor.
2. The partners or Directors of the Contractor shall meet the officer of EMPLOYER or its consultants at the site of works or at their respective offices whenever requested to do so.
 - a) The contractor shall visit the site, take the actual measurements of building/premises and prepare GFC drawings with complete, detailed engineering before starting the work. All the drawings required for the complete execution of the work may not be made simultaneously but in installments as the work progresses. Bar bending schedules and shop drawings required for proper execution of work shall be prepared by the Contractor and submitted well in advance to EMPLOYER to permit scrutiny, corrections resubmissions and final approval without causing any delay in the construction work. The contractor shall also submit Panel GA drawing, SLD control circuit drawing, pump performance curve, GA & foundation drawings along with data sheets for necessary scrutiny and approval.
 - b) The Contractor shall conform to the provisions of the Government Act relating to the work, and to the regulations and bye-laws of the local authorities. The contractor shall give all notices required by the said act, and obtain all required permission and license and pay all fees payable to such authorities in connection with constructing and maintaining temporary electric and water supply at site for the said project. All aspects of temporary works including their stability shall be the sole and ultimate responsibility of the Contractor.
 - c) EMPLOYER reserves the right to use the premises and any portion of site for execution of any work not included in this contract which we may desire to get executed by other agencies. The Contractor shall allow all reasonable facilities for the execution of such work but shall not be required to provide any plant or material for such work except by special arrangement with the EMPLOYER in such a manner as not to impede the progress of the works included in this contract and the Contractor shall not be responsible for any damage or delay which may happen or be occasioned by such work.
 - d) In addition to previous stipulations, the Contractor shall be represented at site at all times during the tenure of the contract by responsible and qualified engineers approved by EMPLOYER. Such engineer shall form the Contractor's Project Management & Site Supervisory Team. They shall be in constant attendance upon all activities of the work. Contractor's staff shall comprise of at least the following to be permanently on site for the entire duration of the project.
7. Cost of recovery against materials, utilities or services supplied or arranged for by EMPLOYER shall be made by deducting the respective amount from the running as well as final bills.
8. Although Schedule of Probable Quantities & Rates has been divided into various sub – section, the rates quoted for a particular item of work in one sub – section shall be made applicable to similar item of work in any other sub – section if that item is not listed in the Schedule of that other sub – section.
9. This project is subjected to inspection by various audit / vigilance agencies of Government of India. If any inspection of works is carried out by such agencies contractor shall extend his full co-operation to these agencies in examining records, works etc. On inspection by such agencies and in their inspection report, if it is pointed out that Contractor has not carried out work according to guidelines laid down in this tender documents and also if any recoveries in some items is pointed out therein, same shall be recovered from

contractor's Running Bills / Final Bill. The items under dispute shall not be paid in full till inspection agency gives their no objection report.

10. This work being prestigious, quality of materials & workmanship is expected from the contractor of very high standard.

11. The successful tenderer is bound to carry out any item of work up to any deviation in quantities, for the completion of the job.

12. The Electrical works is to be executed through licensee electrical contractor only.

14. Upon it becoming reasonably apparent that the work is delayed, the contractor shall forthwith give written notice of the cause of the delay to EMPLOYER. Then EMPLOYER shall as soon as they are able to estimate the length of the delay beyond the date or time aforesaid, make in writing a fair and reasonable extension of time for completion of the work, provided always that the contractor shall use constantly his best endeavour to prevent delay and shall do all that may reasonably be required to the satisfaction of the EMPLOYER to proceed with work.

15. Damage for non-completion:

If the contractor fails to complete the works by the date specified in the conditions or within any extended time fixed, the contractor shall pay to the EMPLOYER a sum calculated at the rate stated in the special conditions as agreed liquidated damages for the period during which the said work shall so remain or have remained incomplete. The EMPLOYER may deduct such damages from any money that is otherwise payable to the contractor, under this contract.

16. Extra Items

All authorized extra items where rates cannot be derived from tender the contractor shall submit rates, supported by rate analysis worked on the 'actual cost basis' plus 15% towards establishment charges, contractor's overhead and profit & works contract tax etc.

17. Deviation in Quantities:

There is no variation limit in tender quantity for any variation in plus or minus, contractor is supposed to execute the same at quoted rates.

18. Photographs

The rate quoted shall include the cost of supplying colour photographs of 8" x 10" size including digital/soft copy to EMPLOYER after completion of work from various angle one set each to EMPLOYER and the consultant separately in respect of each floor/ item head as directed.



DAMAGE TO PERSONS AND PROPERTY INSURANCE ETC

The contractor shall be responsible for all injury to the work or workmen to persons, animals or things and for all damages to the structural and / or decorative part of property which may arise from the operations or neglect of himself or of any sub-contractor or of any of his or a sub-contractor's employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause shall be held to include inter-alia, any damage to buildings whether immediately adjacent or otherwise, and any damage to roads, streets, foot paths or ways as well as damages caused to the buildings and the works forming the subject of this contract by rain, wind or other inclemency of the weather. The contractor shall indemnify the Employer and hold harmless in respect of all and any expenses arising from any such injury or damages to the person or property as aforesaid and also in respect of any claim made in respect of injury of damage under any acts on compensation or damage consequent upon such claim.

The contractor shall reinstate all damages of every sort mentioned in this clause so as to deliver the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damages to the property of third parties.

The contractor shall affect the insurance necessary and indemnify the Employer entirely from all responsibility in this respect. The insurance must be placed with a company approved by the Employer and must be effected jointly in the name of the Employer and contractor and the policy lodged with the Employer. The scope of insurance is to include damage or loss to the contract itself till this is made over in a complete state, so contractor will take the CAR (Contractors All Risk Policy) for insurance equal to 1.25 times the amount of issued work order for this work for his persons employed at site and for third party. In respect to persons employed at the site and third party, insurance coverage should not be less than rupees two lakhs. Insurance is compulsory and must be affected from the very initial stage. The contractor shall also be responsible for anything, which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract. Policies should be taken in the joint names of NABARD and the Contractor for which first name should be NABARD.

The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or accruing from or in respect of any such claim for damages from any sums due to or to become due to the contractor.

The contractor at his cost and risk should shift / displace the Bank's furniture / fixtures etc. as per the needs to facilitate the job during the time of work and should re-shift the goods at its initial place without any damage.

The Contractor shall use necessary safety equipment and maintain all safety measures during the execution of works and ensure compliance of Safety Code as per Rules and Regulations in force

The Contractor shall engage necessary qualified and experienced supervisory staff at his cost during the execution of the work for attending to day to day affairs.

The Contractor shall submit the bills along with the accepted and jointly recorded measurement sheets duly certified by the NABARD's Engineer.

The Contractor should have necessary Contract License and comply with the Labour Laws as applicable.

Notwithstanding anything stated above, NABARD reserves the right to assess the Tenderer's capability and capacity to perform the contract, should the circumstances warrant such assessment in the overall interest of NABARD.

The decision of NABARD in awarding the work shall be final and cannot be subjected to arbitration.



The decision of NABARD in awarding the work shall be final and cannot be subjected to arbitration.

NABARD reserves the right to accept/ negotiate / reject any Tender either in whole or in part without assigning any reasons therefore whatsoever and without entering into any further correspondence and hence, NABARD shall be under no obligation to accept the lowest or any other Tenders received in response to this Tender. The decision of NABARD in this regard shall be final and undisputable.

NABARD also reserves the right of super session of any of the conditions, stipulated in the Tender Document.

Rates quoted by the contractor shall be as indicated in the tender and may be extended further with mutual consent of NABARD and the contractor.

ARBITRATION

If any dispute, difference or question shall at any time arise between the parties as to the construction of this Agreement or concerning anything or as to the rights, liabilities and duties of the parties hereunder, except in respect of matters for which it is provided hereunder that the decision of the Employer or its Engineer is final and binding, the same shall be referred to conciliation or arbitration after giving at least 30 day notice in writing to the other (herein after referred to as the "Notice for Conciliation / Arbitration") clearly setting out the items of dispute to a Conciliator or the Sole Arbitrator who shall be appointed as herein after provided for the purpose of appointing the Conciliator or the Sole Arbitrator who shall be appointing the Conciliator or the Sole Arbitrator referred above, the Employer shall send to the Contractors, within thirty days of the Notice of Conciliation / Arbitration, a panel of three names of persons who shall be presently unconnected with the organization of the Employer or the Contractors.

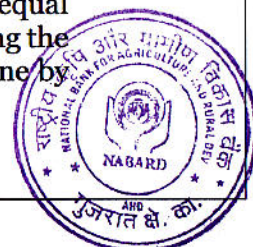
The Contractor shall, on receipt of the names as aforesaid, select any one of the persons so named to be appointed as the Conciliator or Sole Arbitrator, as the case may be, and communicate his name to the Employer within fifteen days of receipt of the names. The Employer shall thereupon without any delay, appoint the said person as the Conciliator or Sole Arbitrator.

If the Employer fails to send to the Contractors, the panel or three names as aforesaid within the period specified, the Contractor shall send to the Employer, a panel of three names of persons who shall be unconnected with either party. The Employer shall, on receipt of the names as aforesaid, select any one of the person's name and appoint him as the Conciliator or Sole Arbitrator. If the Employer fails to select the person and appoint him as the Conciliator or Sole Arbitrator within thirty days of receipt of the panel and inform the Contractor accordingly, the Contractor shall be entitled to appoint one of the persons from the panel as the Conciliator or Sole Arbitrator and communicate his name to the Employer.

If the person so appointed is unable or unwilling to act or refuses his appointment or vacates his office due to any reason whatsoever, another person shall be appointed as aforesaid.

The Conciliation / Arbitration shall be governed by the Conciliation and Arbitration Act, 1996 as in force from time to time. Where the parties do not agree with the Conciliator and appoint an Arbitrator (s) the award of the Arbitrator (s) shall be final and binding on the parties. It is hereby agreed that in all disputes referred to Arbitration, the Arbitrator shall give a separate Award in respect of each dispute or difference in accordance with the terms of the reference and the Award shall be a reasoned Award.

The fees, if any, of the Conciliator or the Arbitrator shall, initially are paid in equal proportion by each of the parties. The cost of the Conciliation / Arbitration including the fees, if any, of the Conciliator or the Arbitrator, shall be directed to be finally borne by



such partly or parties to the dispute, in such matter or proportion as may be directed by the Conciliator or the Arbitrator, as the case may be in the Award.

The Employer and the Contractor also hereby agree that the Arbitration under this Clause shall be a condition precedent to any right to action under the contract with regard to the matters hereby expressly agreed to be so referred to Arbitration.

DECLARATION BY THE CONTRACTOR

We / I have read and understood all the instructions / conditions made above and we / I have taken into account the above Instructions / Terms and Conditions while quoting the rates. We / I accept all the above Terms and Conditions without any reservation, in all respects.

Place :

DATE :

(SIGNATURE OF THE TENDERER)

ADDRESS :

NAME and SEAL



Technical Specifications

Fire Hydrant System

1. Scope

The contractor shall be responsible for the supply of materials as defined in the Schedule of Quantity and Unit Rates, as well as Installation, testing and commissioning, for all the Equipment described in Schedule of Quantities. This work shall be carried out in accordance with the regulations of local codes, if any, and following specification and codes which may govern the requirement of materials and equipment supplied and fire protection Manual and rules for alarm installations of Tariff advisory committee of Fire Insurance Association of India.

The work of the Contractor shall include, but not necessarily be limited to the following activities so as to ensure that the entire installation is not only in accordance with the designs and drawings, but also complies with the statutory requirement, including reliability and safety aspects.

The activities of the contractor, to name a few, shall cover the following:-

- a. Supply of materials as per the schedule given, including any material/item deemed part of the main equipment.
- b. Trial run, Pre-commissioning, Tests, Testing and Commissioning.
- c. Handing over, after demonstrating the satisfactory performance and/or operation of the Equipment installed by him, including such interphases / interactions which the equipment will have, with respects to others though not specifically included in the Contractor's scope of supply.
- d. A set of 'As-built' drawings, Instruction Manual.

2. Construction Facilities & Power Supply

Power supply may be made available to the contractor at one point. Water supply will be made available at one point within the site free of cost. However, distribution for same (for electric power & water) will have to be arranged the contractor.

The contractor shall ensure that the work pertaining to water and electricity connections are carried out strictly in accordance with the current regulations required by the relevant authorities or any other statutory requirements.

It shall be entirely the contractor's responsibility to provide all type of construction /erection equipment, transformer, welding sets, derricks, cranes, chain pulley blocks, jacks, scaffolding materials, tarpaulins, tools & tackles, etc. as well as all handling and transporting facilities. The Employer/Owner has no obligation to provide construction/erection equipment to the Contractor.

A space(open space) will be provided at site for storage of materials and for site office. The Contractor has to make his own arrangement of temporary shed for safe keeping of his own materials.

3. a) Drawing /Specifications

The drawings/ specifications and bill of quantities shall be considered as a part of this contract. However, any minor change, if found, essential to co-ordinate the installation of this work with other traders shall be made without any additional cost to the owners. The exact location,

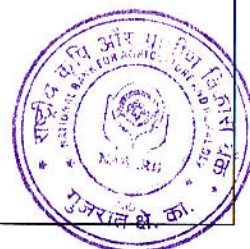


distance and levels, etc. will be governed by the space conditions. Generally, works to be carried out as per BIS standard and applicable IS codes are listed below:

| | |
|--------------|--|
| IS:884-1995 | Specification for first Aid Hose Reel for Fire Fighting. |
| IS:901-1988 | Specification for couplings, double male and double female, instantaneous pattern, for firefighting purposes (revised). |
| IS:902-1992 | Specification for suction hose couplings for firefighting purposes (revised). |
| IS:903-1993 | Specification for fire hose delivery couplings, branch, pipe, nozzle and nozzle spanner (revised). |
| IS:904-1983 | Specification for two-way and three-way suction collecting heads for firefighting purposes (revised). |
| IS:905-1980 | Specification for delivery breaching, dividing and collecting, instantaneous pattern, for firefighting purposes (revised). |
| IS:906-1992 | Specification for branch with revolving head for firefighting purposes (revised). |
| IS:907-1984 | Specification for suction strainers, cylindrical and hose types for firefighting purposes (revised). |
| IS:908-1975 | Specification for fire hydrant, stand post type (revised). |
| IS:909-1992 | Specification for underground fire hydrant, sluice valve type (revised). |
| IS:910-1980 | Specification for combined key for hydrant, hydrant cover and valve. |
| IS:936-1966 | Specification for underground fire hydrant, double-valve type (revised). |
| IS:937-1981 | Specification for washers for water fittings for fire-fighting purposes (revised). |
| IS:1641-1988 | Code of practice for fire safety of buildings (general): General principles and fire grading. |
| IS:1642-1989 | Code of practice for fire safety of buildings (general): Materials and details of construction. |
| IS:1646-1982 | Code of practice for fire safety of buildings (general): Electrical installation. |
| IS:2871-1983 | Specification for branch pipe, universal, for fire-fighting purposes. |
| IS:3582-1991 | Specification for basket strainers for fire-fighting purposes (cylindrical type). |
| IS:3844-1989 | Code of practice for installation of internal fire hydrants in i multi-storied buildings. |
| IS:5290-1993 | Specification for landing |

All the pipes and fittings used for Fire fighting piping shall be ISI marked and shall be installed strictly in compliance with the IS specifications as mentioned below:

IS: 1239 (Part -I) 1979 for piping
IS: 1239(part-II) for pipe fittings
IS: 5 for paint shades



IS 13095/BS 5155 for Isolating valves

b) Shop Drawings

Contractor shall visit site and shall prepare and submit detailed shop drawings of all equipment control panels, piping and conduits, cabinets and special pull boxes, etc. to the Bank within 15 days of signing of the contract or days of start of particular work, whichever is earlier.

c) Completion Drawings

At the completion of the work and before issuing of certificate of 'Virtual Completion, the contractor shall submit to the Owner, layout drawings drawn at approved scale indicating the complete details as installed, in 3 sets of Blue Prints as well as the originals, along with soft copies of Drawings in Autocad /PDF format".

4. Foreman/Supervisor

The contractor shall employ a competent, licensed, qualified, full time electrical foreman/supervisor for the work of fire protection work installations in accordance with the drawings / specifications. The foreman/supervisor shall be available at all times on the site to receive instructions from the Engineer in the day to day activities throughout the duration of the contract. The foreman/supervisor shall correlate the progress of the work in conjunction with all the relevant requirement of the local authorities. The skilled workers employed for the work should have requisite qualifications and should possess competency certificate.

5. Inspection and Testing

Contractor shall employ a full time qualified Engineer who shall be available at all working hours at site for taking instruction and to look after the quality of the work.

Contractor shall maintain at site the following tools and instruments, but not limited to the list below, in working condition:

- a) Vernier caliper, Micrometer,
- b) Steel tapes of various lengths,
- c) Hydraulic test machine, hand pump, pressure gauges etc.
- d) Hydraulic crimping tool,
- e) Earth testing megger,
- g) Pipe bending tool, thread cutting die, bench vice etc.
- h) Cable jointing kit,
- i) 1000 V Insulation Tester Megger.

6. Clearance From local Authorities

After completing the proposed works in this tender, it would be the whole responsibility of the contractor to get the entire system should be approved by Local Authorities.

7. Painting

A. All above ground pipes, pipe fittings, hose cabinets, structural steel work, pipe supports etc. shall be painted as per specifications given below.

(i) Painting shall be done only after the completion of fabrication work and testing.

(ii) The instructions of paint manufacturer shall be followed as far as possible otherwise the work is to be done as directed by the Employer.

(iii) All cleaning materials, brushes, tools and tackles, painting, material etc. shall be arranged by the Contractor at site in sufficient quantity.



(iv) All rust, dust, scales, welding slag or any other foreign materials shall be removed fully so that a clean and dry surface is obtained prior to painting. Any other oily contamination shall be removed by use of a solvent prior to surface cleaning.

(v) First coat of Zinc rich Metal primer paint must be applied by brush on dry clean surface immediately or in any case within 3 hours of such cleaning (avoid areas where cutting and welding are required).

(vi) After fabrication and erection, the affected areas of pipe work should be immediately cleaned properly to remove dust, rust, welding flux and any other foreign matters, preferably by mechanical buffing and apply one touch up coat of Zinc rich primer. The total MS pipe work after fabrication and erection, are to be painted with 2nd coat of Zinc Rich primer.

(vii) Piping work above ground shall be protected with 2 coats of approved make Fire red Enamel paint (shade no. 536 as per IS:5).

(viii) The protective paints used shall be compatible, each other.

(ix) The protection system shall be carried out as per Bank's Engineer/ consultant instructions and as per paint manufacturer's recommendations.

B. COATING WRAPPING FOR UNDERGROUND PIPES

All underground piping shall be protected by coating and wrapping as per the following procedure.

(i) The materials and workmanship shall in general conform to IS: 10221, 2004 or as directed by the Owner.

(ii) Cleaning – The pipes shall be thoroughly cleaned by dust, rust, scales, oil, grease etc. by stiff wire brush and scrapers. The surface shall be coated with the primer immediately after cleaning.

(iii) Priming – The primer shall be PYPKOTE/MAKEPOLYKOTE/CORPORATE undercoat. The manufacturers recommended procedure would be followed for applying the primer.

(iv) Paste Application – PYPKOTE-AW Paste/RUSTFIRE Paste/CORPORATE Paste shall be applied to fill up uneven surfaces in order to ensure smoothness for subsequent wrapping with multi-layer tape.

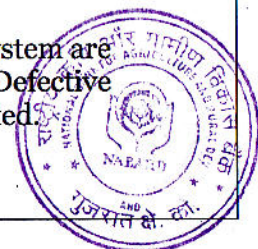
(v) Tape Wrapping - The tape is to wrap while the second coat of primer is still tacky. Winding is to be done with 50% overlap so that the total thickness of 2.0mm tape would become 4.0mm. It should be ensured while wrapping that air bubbles are not trapped. The ends of tape shall be secured with nylon binding to ensure that the tape doesn't get loosened while handling.

(vi) The total thickness including 2 coats of primer, 50% overlap of tape etc. should not be less than 4.5mm or as per manufacturer recommendations.

(vii) The 'Holiday Test' is to be conducted as per IS: 10221 for detecting any entrapped air or any other defect. The Contractor is to arrange for the Holiday Test and to rectify the defects if found any.

8. Guarantee

The contractor shall guarantee that all the materials and workmanship of the entire system are of the first class quality. All the equipment apparatus shall be guaranteed. Defective equipment/material/workmanship found short of the specified quality shall be rejected.



9. Defects and Liability

All the equipment/material and the system shall be guaranteed against defective material and workmanship for a period of 12 months from the date of commissioning and handing over to the Bank along with all relevant documentation i.e. Virtual completion of the work. The contractor shall repair/rectify or replace all the defective materials, components free of cost during the guarantee period. In addition, normal maintenance shall be carried out periodically during the defects liability period including replacement of spares, as required.

10. Instructions Manual/ Completion Drawing/Training

Contractor shall furnish detailed instructions and operation manual in duplicate. The contractor shall also furnish detailed completion drawings to an approved scale. The drawings shall be inclusive of control schematics, if any. The contractor shall train the owner's personnel in the operation of maintenance of the system.

11. Testing

The contractor shall arrange to test the entire system as per the procedures enumerated under particular specifications, after the erection is completed. If the results of the test are not found to be satisfactory by the Engineer-in charge, necessary rectification shall be done until the test results are found to be satisfactory. The installation shall be deemed to be completed only after the successful completion of the tests.

12. General Requirements

- a. All materials shall be of the best quality conforming to specifications and subject to the approval of the Engineer/ Consultant.
- b. Pipe and Fittings shall be fixed truly vertical, horizontal or in slopes as required in a neat workman like manner.
- c. Pipes shall be fixed in a manner as to provide easy accessibility for repair and maintenance and shall not cause obstruction in shafts, passages etc.
- d. Pipes shall be securely fixed to Brick/RCC walls and ceilings by suitable clamps at intervals specified. Only approved type of anchor fasteners shall be used.
- e. Valves and other appurtenances shall be so located that they are easily accessible for operations, repairs and maintenance.

13. Pipes & Fittings specifications

- a. Pipes for underground header shall be M.S black conforming to IS (Heavy class) duly wrapped and coated as per IS: 10221 with flanged/welded joints.
- b. Pipes for Risers and header running inside the building shall be M.S black conforming to IS (Heavy class) with screwed/ welded joints.
- c. Pipe Installation work: Normal method statement to be followed for piping installation like cleaning of pipes, Painting, welding, Insulation, Pressure testing, Pipe flushing. After each step the approval should be taken from Site in Charge.

Piping installation work shall be done as per relevant Indian Standards and to the complete satisfaction of the Bank's Engineer/consultant.

The joints to be welded shall be cleaned properly and ensured that such joints are totally free from dust rest etc. Welding work shall be done by qualified and certified welders only. 10% of all the welded joints shall be radio graphically tested by the contractor. Rectifications of all defective welding joints and re-testing of such joints shall also be on Contractors account. Holes in pipes shall be done by core cutting machine or by gas cutter. Use of welding machine for making holes are prohibited.

Joining of pipes should be provided with 'V' notch at the end for strength and quality. Tapping should be with notch type fittings. Welding gap should not be above 3mm.



Pipe work shall be fixed in a neat manner as to provide easy accessibility for repair and maintenance and shall not cause obstruction in shafts, passage etc.

The supports of pipes should be well pointed on all side, dropout type anchor fastners to be used for thread rod filling. Sample pull out test to be carried out. Expansion joints, where required, shall be provided to control expansion and contraction of pipe work.

Isolating valves and other appurtenances shall be installed at easily accessible locations with access doors/manholes covers etc. for emergency operations, repairs and maintenance.

All pipe work shall be carried out with minimum disturbance to the other services, existing services, building, roads and other structures.

14. Pipe joining details

All pipes and fittings used for fire fighting shall be MS 'C' class (Heavy duty) grade, wherever applicable and shall include Elbows, Tees, Reducers, Reducers Tees, Sockets, Flanges, Unions etc. provided as per site conditions. Fittings for pipes up to 50 mm shall be heavy duty forged mild steel Socket welded and Joints with M.S pipe of above size 50mm and above shall be butt welded with flanges at regular intervals. The welded joints should be good enough to withstand the specified hydrostatic pressure rating. All flanges shall confirm to IS: 6392-1971.

15. Excavation

Excavation for underground pipe lines shall be in open trenches to levels and grades as required at site. Pipe lines shall be buried to a minimum depth of 1.00m. Wherever required, Contractor shall support all trenches of adjoining structures with adequate supports.

On completion of testing, coating and wrapping, trenches shall be refilled with excavated earth in 15 cms layers and consolidated to re-store ground condition to original status. Prior to excavation, contractor to ensure that no adjoining structure or pipe line is affected / damaged.

Contractor shall dispose-off all surplus earth out of the Bank's premises or as directed by Employer.

16. Non Return Valves:

Non return valves for fire lines shall be hydraulically engineered, tight shut off, self acting, wafer type swing check valves, confirming to IS 13095.

17. Butterfly Valve:

The entire isolation valve on the equipment and water lines, where specified or shown on drawings shall be wafer type butterfly valves. They shall be designed to fit without gaskets, the water tight seal being obtained by Nitrile seat projection at the faces compressed between the flanges. The valves shall be supplied inclusive of M.S. pipe flanges and high tensile steel bolts of dimensions recommended by suppliers of valves. The valves shall comply with following specification. It is provided as per following specifications:-

- a. Type: Wafer Type
- b. Pressure rating: PN 16
- c. Body Material: Cast iron



- d. Disc Material: Stainless steel
- e. Seat material: Nitrile
- f. Operation: hand Lever
- g. Standard: IS:13095/BS:5155
- h. Test Pressure: Body 24 Bar, Seat 16 Bar

18. Hydrant Valves (Landing Valves)

Landing valves shall be 63 mm dia. oblique female instantaneous single outlet pattern, 75 mm N.B. flanged inlet, brass spindle, cast iron hand wheel and complete with ABS blank cap and G.I. chain, bearing IS 5290 mark and having TAC approval.

Landing valves shall be installed on hydrant level. The landing valves shall be connected to the wet riser stand pipes by means of a suitable tee, the cost of which is deemed to be included in the unit rate for piping.

19. Hose Reel & coupling:

First-Aid Fire Hose Reel wall mounting swinging type complete with drum, bracket, 25 mm dia. Ball valve and 25 mm dia. x 36 M long high pressure Hose Reel tubing as per IS:444 with S.S shut-off nozzle having 5mm dia. orifice. The Hose Reel shall strictly confirm to IS; 884-1985.

Fire hose coupling shall be 63 mm dia 15m long RRL Hose Pipe with 63 mm dia. Type A Male and female couplings duly binded with GI wire, rivets etc. conforming to IS 636 as required.

Fire branch pipe shall be S.S, confirming to IS 903: 1993, with 63 mm dia. male instantaneous inlet, threaded outlet, fitted with 20 mm bore nozzle, having IS 903 mark and TAC approval.

20. Air Vessel/Air Cushion Tanks

An Air Vessel of suitable size and capacity indicated in schedule of quantities shall be provided.

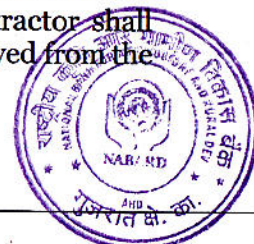
Air Cushion tank shall be provided as per schedule of quantity and measured by numbers and shall include Air Valve, Pressure Gauge, globe valves of suitable size for testing and draining, M.S. Clamps, Pipes, Fittings, Tees, Elbows, Union and all other items required to complete the work.

21. Pipe Protection

All pipes above ground and in exposed locations shall be painted with one coat of red oxide primer and two or more coats of synthetic enamel paint of approved shade and make. All underground M.S. Pipes must be protected with anti-corrosive treatment as per IS:10221 to the satisfaction of Engineer-in-charge and wrapping of pre-laminated self-adhesive composite sheets of polyethylene and bitumen similar to PYPKOTE shall be acceptable as corrosive treatment for underground piping.

22. Pipe Supports

All pipes shall be adequately supported at a maximum interval of 3 M from ceiling/walls from existing inserts, if available, by structural clamps fabricated from M.S. Structural e.g. Rods, Channels, Angles and Flats. All clamps shall be painted with one coat of red lead and two coats of black enamel paint. Where inserts are not provided, the contractor shall provide anchor fasteners. The design of all supports/clamps must be got approved from the Engineer-in-charge before execution.



23. Testing

All piping in the system shall be tested to a Hydrostatic Pressure of 15 Kg./sq.cm or twice the design pressure (whichever is higher) without drop in pressure for at least 2 Hours and there after the whole system shall be hydraulically tested at 3.5 Kg./sq.cm above the pump shutoff pressure or 11 Kg./sq.cm whichever is higher for 12 hours without any drop in pressure.

All the tests and inspection procedures as per the all the component manufacturer's specifications and standards shall be carried out by the Contractor as part of installation work prior to commissioning of the system. If the Bank's Engineer or Consultant may ask for additional tests to determine that the installed equipment complies with the specifications, the contractor shall carry out these additional tests also without extra cost.

The Contractor shall rectify leakages, if any, and replace all defective components and retest the system as per above requirements to the satisfaction of Engineer-in-charge.

24. Measurements

Pipes shall be measured by linear metre and shall include all fittings, flanges, jointing, clamps, hangers and all other material necessary and required (whether specified or not) to complete the system including painting, testing and commissioning.

Valves shall be measured by numbers and shall include matching flanges, rubber gaskets, bolts, nuts, washers and all items necessary and required and as given in the specifications to complete the work to the satisfaction of Engineer-in-charge.

No additional payment shall be admissible for cutting holes or chases in walls or floors or columns/ underground /overhead tanks etc. and making good the same to the satisfaction of Engineer-in-charge and making connections to pumps, various equipment and appliances or for making channels/trenches to complete the work.

25. PUMPS, MOTORS, CONTROLS AND ALLIED ELECTRICAL WORKS

Pump(s), motor(s), motor starter(s), diesel engine(s) starting mechanism of diesel engine driven pump(s), battery(ies), battery charger(s), pressure gauge(s), pressure switch(es) should be as per the BoQ as well as manufacturers' specifications (wherever applicable)

The contractor will hand over to NABARD all the warranty and performance related documents as provided by manufacturers. The contractor will also explore possibilities of extended warranty and/or long term maintenance contract for major equipment like pumps, diesel engine, battery etc. with OEM before finalising the products.

• Pumps

SCOPE OF WRK

Work under this section shall consist of furnishing all labour, materials, equipment and appliances necessary and required to completely install electrically operated pumps and as required by drawings and specified hereinafter or given in the schedule of rates.

- a. Electrically operated pumps with motors common base plates, coupling, coupling guard and accessories.
- b. Vibration eliminator pads and foundation bolts.
- c. Leak off drain shall be led to the nearest floor drain.



GENERAL REQUIREMENTS

- a. Pumps shall be installed true to levels on suitable concrete foundations. Base plate shall be firmly fixed by properly grouted foundation bolts.
- b. Pumps and motors shall be truly aligned by suitably instruments. Record of such alignment shall be furnished to the Project Manager.
- c. All pump connections shall be standard flanged type with number of bolts as per relevant standard requirement for the working pressure. Companion flanges shall be provided with the pumps.
- d. Manufacturer's instructions regarding installation, connections and commissioning shall be strictly followed.
- e. Contractor shall provide necessary test certificates, type test certificates, performance curves and NPSH curves of the pumps from the manufacturer when called for. The contractor shall provide facilities to the Project Manager & Consultant for inspection of equipment during manufacturing and also to witness various tests at the manufacturer's works without any cost to the Project Manager or Consultant.

ELECTRIC DRIVEN FIRE PUMP

The electric fire pump shall be suitable for automatic operation complete with necessary electric motor and automatic starting gear, suitable for operation on 415 volts, 3 phase, 50 Hz. A.C. system. Both the motor and the pump shall be assembled on a common base plate, fabricated M.S. channel. Drive The pump shall be direct driven by means of a flexible coupling. Coupling guard shall also be provided.

The fire pump shall be horizontally mounted centrifugal type. It shall have a capacity to deliver 137m³/hour@70Mtr Head as specified, and developing adequate head so as to ensure a minimum pressure of 3.5 Kg/Sq.cm at the farthest outlet.

Provision of Jockey Pump shall be made. The pump shall be vertical type and of detail as in schedule of quantity. The Jockey pump shall be of 10.8m³/hour@70 Mtr Head.

MOTOR

The motor shall be squirrel cage A.C. induction type suitable for operation on 415 volts 3 phase 50 Hz. system. The motor shall be totally enclosed fan cooled type conforming to protection clause IP 55. The class of insulation shall be F. The synchronous speed shall be 1500/ 2900 RPM as specified.

The motor shall be rated for continuous duty and shall have a horse power rating necessary to drive the pump at 150 per cent of its rated discharge with at least 65 per cent rated head. The motor shall conform to I.S.325-1978.

Technical Parameters and MOC for the Pump Sets are:

ELECTRIC DRIVEN PUMP SET (HYDRANT AND SPRINKLER SYSTEM)

- a. Type of Pump: Horizontal Centrifugal end suction
- b. Flow Rate: 2280 LPM (137M³/Hour)



- c. Head: 70 M.
- d. Efficiency: Minimum 70%
- e. Motor Rating: 60 HP.
- f. Speed of Motor: 2900 RPM
- g. Motor Type: AC 3 Phase Induction.
- h. Enclosure: TEFC IP 55.
- i. Insulation: Class 'F'

MOC OF PUMP:

- a. Casing: C.I.
- b. Impeller: Bronze.
- c. Wear Ring: Bronze.
- d. Shaft: SS/CS
- e. Shaft Sleeve: SS/CS

JOCKEY PUMP SET

- a. Type of Pump: Horizontal Centrifugal.
- b. Flow Rate: 180 LPM(10.8M³/Hour)
- c. Head: 70 Mtrs
- d. Efficiency: Minimum 48%
- e. Motor Rating: 10 HP.
- f. Speed of Motor: 2900 RPM
- g. Motor Type: AC 3 Phase Induction.
- h. Enclosure: TEFC IP 55.

MOC OF PUMP:

- i. Casing: C.I.
- j. Impeller: Bronze.
- k. Wear Ring: Bronze.
- l. St. Box Sealing: Gland Packing.
- m. Shaft: SS-410/CS
- n. Shaft Sleeve: SS-410/CS

DIESEL ENGINE DRIVEN PUMP

- a. Type of Pump: Horizontal Centrifugal.
- b. Flow Rate: 2280 LPM (137M³/Hour)
- c. Head: 70 M.
- d. Efficiency: Minimum 75%
- e. Engine Rating: 92 BHP.
- f. Speed of Engine: 2300 RPM

MOC OF PUMP:

- a. Casing: C.I.
- b. Impeller: Bronze.
- c. Wear Ring: Bronze.
- d. Shaft: SS/CS
- e. Shaft Sleeve: SS/CS

ADDITIONAL GENERAL REQUIREMENTS:

Pumps shall be installed true to level on suitable concrete foundations; Base plate shall be firmly fixed by foundation bolts grouted in the concrete foundations. Foundations shall be casted on the reinforcement steel of the floor.

Pumps and motors shall be truly aligned by suitable instruments.



All pump connections shall be standard installation; connections and commissioning shall be followed with respect to all pumps and accessories.

Manufacturer's instructions regarding installation, connections and commissioning shall be followed with respect to all pumps and accessories.

Maintenance Manual

- a) On completion of the entire work and successful commissioning, Contractor shall hand-over four copies of maintenance manual of all equipment installed by him.
- b) Maintenance manual shall include information relating to make, model no. year of manufacture and guarantee cards for all electrical and mechanical equipment with names of local suppliers or manufacturer's agents.

26. FIRE PUMP CONTROL PANEL:-

The main switch board cubicle panel shall be of floor mounted type, totally enclosed, dust and vermin proof made from 16 SWG M.S. sheet of suitable size duly painted with one coat of anti-corrosive paint and two coats of synthetic Enamel paint of approved make and shade with stove enameled finish.

The cubical shall comprise of the followings:-

- Incoming main M.C.C.B unit of required capacity.
- Outgoing M.C.C.Bs one for each motor.
- Aluminum bus bar of suitable capacity.
- Fully Automatic "DOL / Star Delta " starter suitable for the motor H.P. with Push Buttons and ON/OFF indicating light one for each motor for all pumps.
- Single phasing preventers one for each motor.
- 96 mm² panel type Ampere meters - one for each motor complete with CTs.
- 96mm² mm voltmeter on incoming main with rotary selector switches to read voltage between phase to neutral and phase to phase.
- Three neon phase indicating lamps.
- Rotary switch for manual/auto operation.
- All colour coded internal and inter-connecting wiring from incoming main to bus bar, switch board panel and power/control cables from switch board cubicle to motors, engine and batteries etc. complete in all respect.
- All switchgears and accessories shall be approved make to relevant IS codes and to the satisfaction of Client's Representative/Consultant and rating of all 115 equipment must match the KW of motors included and as per TAC rules.
- All electrical work to be carried out as per TAC specifications.

26.1 EARTHING:-

Aluminium earth bus of 25 X 3 mm or as per mention in SLD shall be provided in the Panels for the entire length of the panel. The frame work of the Panels shall be connected to this earth bar. Provisions shall be made for connection from this earth bar on both sides of the panels to the main earthing bar coming from the earth pit. Door earthing shall be provided for all the compartments.

The earth continuity conductor of each incoming and outgoing feeder shall be connected to this earth

bar. The armoured shall be properly connected with earthing clamp, and the clamp shall be made for

connection from this earth pit on both sides of the Panels.

26.2 LABELS:-



Engraved metal labels shall be provided on all incoming and outgoing feeders. Single line circuit diagram showing the arrangements of circuit inside the distribution board shall be pasted on inside of the panel door and covered with transparent laminated plastic sheet.

26.3 NAME PLATE:-

A name plate with the Panel's designation in bold letters shall be fixed at top of the central panel. A separate name plate giving feeder details shall be provided for each feeder module door.

Inside the feeder compartments, the electrical components, equipment's, accessories like switchgear, control gear, lamps, relays etc. shall suitably be identified by providing stickers.

26.4 CABLING:-

All cables from switch board panel to the motors shall be PVC insulated and PVC sheathed armoured aluminium conductor power cables of 650/1100 V grade conforming to IS:1553. The cables of required size shall be suitable for laying on surface of wall or in flooring with suitable clamps. Necessary cable trays shall deemed to be included in this item as per site requirements.

The termination shall be with brass compression glands suitable for PVC sheathed armoured aluminium conductor cable of 1.1 KV 'A' grade of the required size

26.5 OPERATING SEQUENCE FOR FIRE AND SPRINKLER PUMPS

| Sr. No | Pumps | Start KG/CM ² | at | Stop KG/CM ² | Remarks. |
|--------|---------------------|-----------------------------|----|-------------------------|----------|
| 1 | Jockey Pump | 6 | | 7 | |
| 2 | Main hydrant Pump | 5 | | Manually | |
| 3 | Diesel Engine Pump. | 4 | | Manually | |

NOTES:-

- Jockey pump shall start and stop through pressure switch automatically.
- Jockey pump shall stop when main starts.
- Main pump and stand by pump shall start automatically on fail of pressure but stopping shall be manual.

27. SPRINKLER ALARM VALVES:-

Each installation shall be provided with a set of installation control valves comprising: ☐

- An Alarm Valve.
- A Water Motor Alarm & Gong.
- Installation valves shall be installed on the sprinkler circuits.
- Installation valve shall comprise of a cast iron body with gunmetal trim, and double seated clapper check valves, pressure gauges, test valve and orifice assembly and drain valve with pressure gauges, turbine water gong including all accessories necessary and required and as supplied by original equipment manufacturer and required for full and satisfactory performance of the system. A cast iron isolation valve with lock and chain at the inlet of the installation valve shall be provided.

The Installation valve shall be UL / FM approved.

28. PRESSURE GAUGE:-

Pressure gauge shall be constructed of die cast aluminum and shall be stove enameled. They shall be weather proof with an IP-55 enclosure. They shall be stainless steel bourden type



pressure gauges with a scale range from 0 to 15 Kg/cm² and shall be constructed as per IS 3624. Pressure gauges shall be 100 mm dia size.

29. PRESSURE SWITCH:-

The pressure switches shall be employed for starting and shutting down operation of pumps Automatically, dictated by line pressure. The Pressure Switch shall be diaphragm type. The housing shall be die cast aluminium, with SS 316 movement, pressure element and socket. The set pressure shall be adjustable.

The Switch shall be suitable for consistent and repeated operations without change in values. It shall be provided with IP: 55 water and environment protection.

30 Y Type strainer:-

Y type strainer shall consist of cast iron body and cover with a removable perforated SS mesh.

Working pressure: 10 kg/CM².

Test pressure: 15 kg/CM²

End connection: Flange type

Maintenance Manual

- c) On completion of the entire work and successful commissioning, Contractor shall hand-over four copies of maintenance manual of all equipment installed by him.
- d) Maintenance manual shall include information relating to make, model no. year of manufacture and guarantee cards for all electrical and mechanical equipment with names of local suppliers or manufacturer's agents.

INSPECTION & TESTING

The Consultants/Clients have the right to inspect the plants, equipment and materials at manufacturer's work or at site at any stage and reject the materials that is substandard or does not meet the requirements of the specification and codes.

The contractor shall provide at his cost at site and elsewhere instruments and appliances for testing and equipment and installation at various stages of manufacturing/installation. These instruments should be tested and calibrated for their accuracy and performance from the approved institutions.

The inspection and testing carried out by the Consultants/Clients/Third party does not relieve the contractor of their responsibility of carrying out routine inspection during each stage of procurement, manufacture and installation and also meeting the intents and requirements of the specification and statutory requirements.

All equipment and the installation to be tested in the presence of the Consultants/Clients after carrying out necessary rectification, adjustments and balancing. Four sets of test readings should conform to the specification, equipment data, standards and codes.

Before participating in the tender, all contractors are advised to visit the site and understand the present site conditions and quote the rates accordingly.

HANDING OVER



All commissioning and testing shall be done by the contractor to the complete satisfaction of the Engineer-in-Charge, and the job handed over to the client.

Contractor shall also hand over to the client all maintenance and operation manuals & as built drawings of entire fire fighting system.



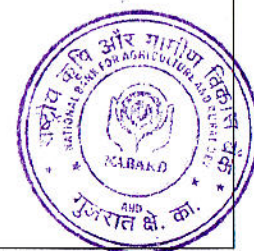
LIST OF INDIAN STANDARDS REFERED TO

| | |
|--------------------------|--|
| IS:884-1995 | Specification for first Aid Hose Reel for Fire Fighting. |
| IS:901-1988 | Specification for couplings, double male and double female, instantaneous pattern, for firefighting purposes (revised). |
| IS:902-1992 | Specification for suction hose couplings for firefighting purposes (revised). |
| IS:903-1993 | Specification for fire hose delivery couplings, branch, pipe, nozzle and nozzle spanner (revised). |
| IS:904-1983 | Specification for two-way and three-way suction collecting heads for firefighting purposes (revised). |
| IS:905-1980 | Specification for delivery breaching, dividing and collecting, instantaneous pattern, for firefighting purposes (revised). |
| IS:906-1992 | Specification for branch with revolving head for firefighting purposes (revised). |
| IS:907-1984 | Specification for suction strainers, cylindrical and hose types for firefighting purposes (revised). |
| IS:908-1975 | Specification for fire hydrant, stand post type (revised). |
| IS:909-1992 | Specification for underground fire hydrant, sluice valve type (revised). |
| IS:910-1980 | Specification for combined key for hydrant, hydrant cover and valve. |
| IS:936-1966 | Specification for underground fire hydrant, double-valve type (revised). |
| IS:937-1981 | Specification for washers for water fittings for fire-fighting purposes (revised). |
| IS:1641-1988 | Code of practice for fire safety of buildings (general): General principles and fire grading. |
| IS:1642-1989 | Code of practice for fire safety of buildings (general): Materials and details of construction. |
| IS:1646-1982 | Code of practice for fire safety of buildings (general): Electrical installation. |
| IS:2871-1983 | Specification for branch pipe, universal, for fire-fighting purposes. |
| IS:3582-1991 | Specification for basket strainers for fire-fighting purposes (cylindrical type). |
| IS:3844-1989 | Code of practice for installation of internal fire hydrants in i multi- storied buildings. |
| IS:5290-1993 | Specification for landing |
| IS : 1239(Part -I) 1979 | for piping |
| IS : 1239(part-II) | for pipe fittings |
| IS : 5 | for paint shades |
| IS 13095/BS 5155 | for Isolating valves |



| | |
|-----------------|---|
| IS 10221 : 2004 | Code of practice for Coating and wrapping of underground mild steel pipelines |
| IS: 10221 | Coating and wrapping of underground mild steel pipelines |
| IS: 5290 | Specification for landing valves |
| IS 636 (1988): | Non-percolating flexible firefighting delivery hose |

Note: The items to be used shall be compliant to relevant latest BIS standards and local fire safety norms.



SCHEDULE OF APPROVED MAKES

| S.No | NAME OF MATERIAL | MAKES |
|-------------|----------------------------------|---|
| 1 | Fire Pumps | Kirloskar/Lubi / WILO/ Crompton/ Equivalent |
| 2 | Fire Pump Panel | Fabricated with L & T / C & S make components or approved equivalent. |
| 3 | MS Pipe Heavy Duty C Class | TATA/Suryaprakash/Jindal/ Equivalent |
| 4 | CI Butterfly valves | Audco/Zoloto/Kirloskar/ Sant/ Equivalent |
| 5 | CI Non Return valve | Audco/Zoloto/Kirloskar/ Sant/ Equivalent |
| 6 | Hydrant Valve | AAAG/Swati/RSS/ Equivalent |
| 7 | Fire Hose Pipe | AAAG/Swati/RSS/ Equivalent |
| 8 | Fire Hose Cabinet | AAAG/Swati/RSS/ Equivalent |
| 9 | Fire Hose Reel Drum | AAAG/Swati/RSS/ Equivalent |
| 10 | Four way fire bridge inlet | AAAG/Swati/RSS/ Equivalent |
| 11 | Branch Pipe | AAAG/Swati/RSS/ Equivalent |
| 12 | Sprinklers | HD/Unique/ Tyco/ Equivalent |
| 13 | Strainer | Normax/Sant/Worthvalve/ Equivalent |
| 14 | Air release Valve | AAAG/Zoloto/ Equivalent |
| 15 | Pressure Guage | H.Guru/Fiebig/Waree/ Equivalent |
| 16 | SS Ball Valve | Leader/Zoloto/RB/Hawa/ Equivalent |
| 17 | Fire Extinguishers | Kanex/ Fire Stone/Krupal/ Equivalent |
| 18 | Electrical Cables/Wires | Polycab/Mecab/Avocab/KEI/ Equivalent |
| 20 | On- Off Switch | Jain Instruments/N.K.Techno fab./RSS/ Equivalent |
| 21 | Pipe Fittings | As per standard/ Equivalent |
| 22 | Paint | Asian/Berger/ Equivalent |
| 23 | Wrapping & Coating | IWL-Pypokote/STP/ Equivalent |
| 24 | MS Electrical Shaft Door | As per Standard/ Equivalent |
| 25 | Cable | POLYCAB/MECAB/CALIPLAST/ Equivalent |
| 26 | Mortor seal & Fire sealant paint | Vijay fire / Equivalent |
| 27 | Alarm Control Panel | Ravel/ System Sensor/ Equivalent |
| 28 | Optical Smoke Detector | Ravel/ System Sensor/ Equivalent |
| 29 | Heat Detector | Ravel/ System Sensor/ Equivalent |
| 30 | Response Indicator | Agni/ Equivalent |
| 31 | Manual Call Point | Ravel/ System Sensor/ Equivalent |
| 32 | Sounder Cum Strobe | Ravel/ System Sensor/ Equivalent |
| 33 | FRLS Armoured Cable | Caliplast/ Polycab/ Equivalent |



SAFETY CODE

The Contractor shall maintain in a readily accessible place first aid appliances including adequate supply of sterilised dressings and cotton wool.

An injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalisation.

No portable single ladder shall be over 8 metres in length. The width between the side rails shall not be less than 30 cm. Clear and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall be engaged for holding the ladder.

Hoisting machine and tackle used in the works, including their attachments, anchorage and supports shall be in perfect condition.

The Employer reserves the right to instruct the Contractors to take additional safety precautions if found necessary. All workers shall be provided with helmet, Safety Shoes and Safety belts.

I/We accept to abide by the above scope of work & technical specifications.

Date:

Signature of tenderer

Place:

Name, Address & Seal



ANNEXURE-A

List of professional staff with the contractor, giving their qualification, experience, including that in the present organisation *

| S. No. | Name | Age | Qualification | Experience | Nature of works handled | Name of the assignments handled | Date from which employed in the present organisation |
|--------|------|-----|---------------|------------|-------------------------|---------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | |

* Use separate/additional sheets as per the requirement

Signature of the applicant with full address and office seal

Note: Indicate other points (including clients' certificates), if any, relating to your technical and managerial competency which you would like to bring to our notice.



ANNEXURE-B**List of important contracts executed by the contractor ***

| Sr. No. | Name of the Work including name of the building and location. | Nature of work involved in the contract | Name Of The Owner And Indicate whether It Is A State Govt./ Govt Of India Undertaking Or Pvt. Body With Full Address and Telephone Numbers*** | Completion Period | | Value of the work ** (Rs. in lakh) |
|---------|---|---|---|-------------------|--------|------------------------------------|
| | | | | Stipulated | Actual | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | |

* Use separate /additional sheets as per the requirement

** Mention the assignments where value of works is 40% of our estimated cost and above only.

*** Attach clients certificates

Signature of the applicant with full address and office seal



ANNEXURE-C

List of important contracts ON HAND being executed by the contractor*

| Sr. No. | Name of the Work including name of the building and location. | Nature of work involved in the contract | Name Of The Owner And Indicate whether It Is A State Govt./Govt Of India Undertaking Or Pvt. Body With Full Address and Telephone Numbers.*** | Stipulated date of completion | Expected date Of completion | Present stage of work with Reasons if the work is getting delayed | Value of the work ** (Rs. in lakh) |
|---------|---|---|---|-------------------------------|-----------------------------|---|------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | |

* Use separate / additional sheets as per the requirement

** Mention the assignments where value of works is 40% of our estimated cost and above only.

*** Attach clients certificates

Signature of the applicant with full address and office seal



ARTICLES OF AGREEMENT
(to be submitted by the successful bidder)

ARTICLES OF AGREEMENT made this _____ day of _____ between the National Bank for Agriculture and Rural Development (hereinafter called "the employer") of the one part and _____ (hereinafter called "the Tenderer") of the other part.

WHEREAS the Employer is desirous of executing the work viz. **Renovation of firefighting system in NABARD Office Building, at Usmanpura (Opp. Municipal Garden), Ahmedabad – 380013**

AND WHEREAS the Tenderer has agreed to execute upon and subject to the conditions set forth in the Price Bid and Conditions of Contract (all of which are collectively hereinafter referred to as "the said Conditions") the work shown upon the said technical specifications, and included in the Price Bid at the respective rates therein set forth amounting the sum as therein arrived or such other sum as shall become payable there under (hereinafter referred to as "the said contract amount").

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration hereinafter mentioned, the Tenderer will upon and subject to the conditions annexed, carry out and complete the supply/works shown in the contract, described by or referred to in the Schedule of Quantities and in the said conditions.
2. The Employer shall pay the Tenderer the said contract amount or such sum as shall become payable at the times and in the manner specified in the said conditions.
3. The said Conditions thereto and the documents attached hereto shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by, submit themselves to the said Conditions and the correspondence and perform the agreements on their part respectively in the said conditions and the documents contained herein.
4. This Agreement and documents mentioned herein shall form the basis of this contract.
5. This contract is an item rate contract for the complete work to be paid for according to necessary installation carried out at site, at the rate contained in the Schedule of Rates or as provided in the said conditions.
6. The Tenderer shall afford every reasonable facility for carrying out of all works of other Contractors employed by the Employer and shall make good any damage done to walls, floors, etc. after the completion of such works.
7. The Employer reserves to itself the right of altering the nature of work by adding to or omitting any items of works or having portions of the same carried out without prejudice to this contract.
8. Time shall be considered as the essence of this contract and the Tenderer hereby agrees to commence the work/ job within the **ten days** of receipt of the work order as provided for in the said conditions and to complete the entire work within the time period prescribed below reckoned from the date of receipt of such work order subject nevertheless to the provision for extension of time.
9. All payments by the Employer under this contract will be made only at Ahmedabad.



10. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Ahmedabad and only Courts in Ahmedabad shall have the jurisdiction to determine the same to the exclusion of all other courts.
11. That the tenderer has visited the site and fully understood the existing conditions of site for execution of work.
12. That the several parts of this contract have been read by the tenderer and fully understood by the tenderer.
13. IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized officials and the Tenderer has caused its common seal to be affixed hereunto and the said two duplicates/ has caused these presents and the said two duplicates here of to be executed on its behalf, the day and year first herein above written. (If the tenderer is a company).

Signature Clause

SIGNED AND DELIVERED by the National Bank for Agriculture and Rural Development by the hand of

Shri

(Name & Designation)

In the presence of:

Witness # 1

Signature:

Name:

Address:

Witness # 2

Signature:

Name:

Address:

SIGNED AND DELIVERED by the Bidder by the hand of Shri

(Name and Designation)

In the presence of:

Witness # 1

Signature:

Name:

Address:

Witness # 2

Signature:

Name:

Address:



ANNEXURE-E

Performance Bank Guarantee (Initial Security Deposit) format

To

The Chief General Manager,

National Bank for Agriculture & Rural Development,

Gujarat Regional Office

NABARD Tower, Opposite Municipal Garden, Usmanpura,

Ahmedabad-380013

In consideration of National Bank for Agriculture and Rural Development (NABARD) having Head Office at C-24, G-Block, Bandra-Kurla Complex, P.O. Box No.8121, Bandra (E), Mumbai – 400 051 (hereinafter referred to as “Purchaser”) having agreed to _____ (type of work) at _____ (Place – HO/RO/TE) (hereinafter referred to as “Services”) from _____ (hereinafter referred to as “Contractor”) on the terms and conditions contained in the RFQ (Ref. NO. _____ Dated _____) and their agreement (hereinafter referred to as the “Contract”) and subject to the contractor furnishing a Bank Guarantee to the purchaser as to the due performance of the _____ (hereinafter referred to as “Proposed Services”) as per the terms and conditions as set forth in the said contract and also guaranteeing the Proposed Services as per the terms and conditions of the said contract;

1) We, _____ (Bank) (hereinafter called “the Bank”), in consideration of the premises and at the request of the contractor, do hereby guarantee and undertake to pay to the purchaser, forthwith on mere demand and without any demur, at any time up to _____ (validity date of BG) money or monies not exceeding a total sum of Rs _____/- (Rupees _____ only) as may be claimed by the purchaser to be due from the contractor by way of loss or damage caused to or would be caused to or suffered by the purchaser on failure of the contractor to provide proposed services as per the terms and conditions of the said contract.

2) Notwithstanding anything to the contrary, the decision of the purchaser as to whether the contractor has failed to provide Proposed Services as per the terms and conditions of the said contract will be final and binding on the Bank and the Bank shall not be entitled to ask the purchaser to establish its claim or claims under this Guarantee but shall pay the same to the purchaser forthwith on mere demand without any demur, reservation, recourse, contest or protest and/ or without any reference to the contractor. Any such demand made by the purchaser on the Bank shall be conclusive and binding notwithstanding any difference between the purchaser and the contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority.

3) This Guarantee shall expire on _____ (validity date) without prejudice to the purchaser's claim or claims demanded from or otherwise notified to the Bank in writing on or before the said date i.e. _____.

4) The Bank further undertakes not to revoke this Guarantee during its currency except with the previous consent of the purchaser in writing and this Guarantee shall continue to be



enforceable till the aforesaid date of expiry or the last date of the extended period of expiry of Guarantee agreed upon by all the parties to this Guarantee, as the case may be, unless during the currency of this Guarantee all the dues of the purchaser under or by virtue of the said contract have been duly paid and its claims satisfied or discharged or the purchaser certifies that the terms and conditions of the said contract have been fully carried out by the contractor and accordingly discharges the Guarantee.

5) In order to give full effect to the Guarantee herein contained, the purchaser shall be entitled to act as if we are purchaser's principal debtors in respect of all the claims of the purchaser against the contractor hereby Guaranteed by us as aforesaid and we hereby expressly waive all our rights of surety-ship and other rights, if any, which are in any way inconsistent with the above or any other provisions of this Guarantee.

6) The Bank agrees with the purchaser that the purchaser shall have the fullest liberty without affecting, in any manner, the Bank's obligations under this Guarantee to extend the time of performance by the contractor from time to time or to postpone for any time or from time to time any of the rights or powers exercisable by the purchaser against the contractor and either to enforce or forbear to enforce any of the terms and conditions of the said contract, and the Bank shall not be released from its liability for the reasons of any such extensions being granted to the contractor for any forbearance, act or omission on the part of the purchaser or any other indulgence shown by the purchaser or by any other matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of so relieving the Bank.

7) The Guarantee shall not be affected by any change in the constitution of the contractor or the Bank nor shall it be affected by any change in the constitution of the purchaser by any amalgamation or absorption or with the contractor, Bank or the purchaser, but will ensure for and be available to and enforceable by the absorbing or amalgamated company or concern.

8) This Guarantee and the powers and provisions herein contained are in addition to and not by way of limitation or in substitution of any other guarantee or guarantees heretofore issued by the Bank (whether singly or jointly with other banks) on behalf of the contractor heretofore mentioned for the same contract referred to heretofore and also for the same purpose for which this guarantee is issued, and now existing un-cancelled and the Bank further mention that this guarantee is not intended to and shall not revoke or limit such guarantee or guarantees heretofore issued by the Bank on behalf of the contractor heretofore mentioned for the same contract referred to heretofore and for the same purpose for which this guarantee is issued.

9) Any notice by way of demand or otherwise under this guarantee may be sent by special courier, telex, fax, e-mail or registered post to the local address of the Bank as mentioned in this guarantee.

10) Notwithstanding anything contained herein:-

i) Our liability under this Bank Guarantee shall not exceed Rs. _____/-(Rupees _____ only)

ii) This Bank Guarantee shall be valid up to _____ (validity date) ;



iii) Unless action to enforce the claims is filed on or before _____ (validity date) all rights under the said guarantee shall be forfeited and Bank shall be relieved and discharged from all liabilities thereunder.

iv) The Bank is liable to pay the Guaranteed amount or any part thereof under this Bank Guarantee only and only if the purchaser serves upon the Bank a written claim or demand on or before _____ (validity date)

11) The Bank has power to issue this Guarantee under the statute/ constitution and the undersigned has full power to sign this Guarantee on behalf of the Bank.

Date this _____ day of _____ at _____

For and on behalf of _____ Bank.

sd/- _____



**Letter of Indemnity and Undertaking
(to be submitted by the successful bidder)**

The Chief General Manager,
National Bank for Agriculture & Rural Development,
NABARD Tower, Opposite Municipal Garden, Usmanpura,
Ahmedabad-380013

Dear Sir

"Renovation of firefighting system in NABARD Office Building, at Usmanpura (Opp. Municipal Garden), Ahmedabad – 380013".

WHEREAS the National Bank for Agriculture and Rural Development, a corporation established under the National Bank for Agriculture and Rural Development Act, 1981 (hereinafter referred to as 'NABARD') has expressed desire to avail _____ (type of procurement) at _____ (place) as per the Schedule hereunder written and which are hereinafter for brevity sake referred to as _____, subject to our furnishing declarations and indemnity as contained hereafter.

NOW THEREFORE THIS LETTER OR INDEMNITY WITNESSETH THAT:

We, the _____ (bidder) hereby declare and certify that we are the rightful owners/ licensees of the said article/ service/ solution offered for sale to NABARD and that the sale of the said article/ service/ solution to NABARD by us and the use thereof by NABARD does not infringe the property or other intellectual property or copy rights of any other person and that the same does not infringe the Copy of Rights Act, 1957 or any other Act for the time being in force.

We, the said _____ (bidder) hereby agree to indemnify and keep indemnified and harmless NABARD, its Officers, servants, agents and other authorized persons against any action that may be brought against us for infringement of the right of property or other intellectual property or copy rights in respect of the said systems package supplied by us to NABARD and will defend the same at our cost and consequences and will pay or reimburse NABARD, its officers, servants, agents and other authorized persons from all costs and other expenses that they may be put to or incur in that connection in accordance with the terms as provided for within the end User License Agreement that accompanies the said systems.

We, the said _____ (bidder) hereby also agree to indemnify and keep indemnified and harmless NABARD, its Officers, servants, agents and other authorized persons against any third party claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by our employees or agents, or by any other third party resulting from or by any action, omission, or operation conducted by or on behalf of us and against any and all claims by employees, workmen, contractors, subcontractors, suppliers, agent(s), employed, engaged, or otherwise working for us, in respect of any and all claims under the Labour Laws including wages, salaries, remuneration, compensation or like.

SCHEDULE (Please list all the hardware supplied to NABARD for providing this service on a separate sheet)

Yours faithfully

(Name and Designation) of Authorized Official



PRE CONTRACT INTEGRITY PACT

(to be submitted by **all bidders** on Rs. 300/- Non-judicial stamp paper)

Between

National Bank for Agriculture and Rural Development (NABARD) hereinafter referred to as
"The Principal"

And

..... hereinafter referred to as "The Bidder/Contractor"

Preamble

The principal intends to award, under laid down organizational procedures, contract/s for..... The principal values full compliance with all relevant laws of the land, rules, regulation, and economic use of resources and of fairness /transparency in its relations with its Bidder(s) and/or Contractor(s). In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 -Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

a. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will, in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

c. The Principal will exclude from the process all known prejudiced persons.

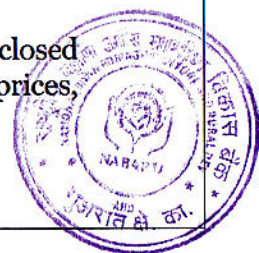
(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 -Commitments of the Bidder(s)/Contractor(s)

(1) The Bidder(s) / Contractor(s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s) / Contractor(s) commit themselves to observe the following principles during participation in the tender process and during the contract execution:

a. The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices,



specifications, and certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.

c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s) / Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly the Bidder(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any.

e. The Bidder(s) /Contractor(s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

f. Bidder(s) /Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter. (2) The Bidder(s) /Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s) /Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form which put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s) / Contractor(s) from the tender process. 2

Section 4 - Compensation for Damages

(1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal Shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 - Previous transgression

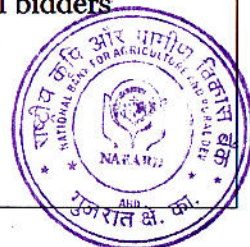
(1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process.

Section 6 - Equal treatment of all Bidders / Contractors/ Subcontractors

(1) In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor.

(2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors (3) The Principal will disqualify from the tender process all bidders who do not sign the Pact or violate its provisions.



Section 7 - Criminal charges against violating Bidders(s) / Contractor(s)/ Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 - Independent External Monitor

(1) The Principal appoints competent and credible Independent External Monitor for this Pact after approval by the Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

The Independent External Monitors appointed for NABARD are Shri Pramod Kumar Sangewar, H. No.12-5-65/1, Flat No. 109, Shi Harsh Sethuram Unique, Vijaypuri Colony, South Lalguda, Secunderabad-500017 and Dr. Sanjay Kumar Panda, Sidheswar Sahi, Cuttack City, Cuttack District, Odisha-753008

(2) The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all Contract documents, whenever required. It will be obligatory for him/her to treat the information and documents of the Bidders /Contractors as confidential. He / she reports to the Chairman, NABARD.

(3) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.

(4) The monitor is under contractual obligation to treat the information and documents of the Bidder(s) /Contractor(s) / Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non-disclosure of Confidential Information and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Chairman, NABARD and recuse himself/herself from that case.

(5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project, provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

(6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

(7) The monitor will submit a written report to the Chairman, NABARD within 8 to 10 weeks from the date of reference or intimation to him~ by the Principal and, should the occasion arise, submit proposal for correcting problematic situations.

(8) If the Monitor has reported to the Chairman, NABARD, a substantiated suspicion of an offence under the relevant IPC/PC Act, and the Chairman NABARD has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.



(9) The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. If any claims made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharge/determined by the Chairman of NABARD.

Section 10 - Other provisions

(1) This agreement is subject of Indian Law, Place of performance and jurisdiction is the Regional Office of the Principal, i.e. Ahmedabad.

(2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

(3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

(4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(5) Issues like Warranty/Guarantee etc. shall be outside the purview of IEMs.

(6) In the event of any contradiction between the Integrity Pact and its Annexure, if any, the Clause in the Integrity Pact will prevail.

(For & On behalf of the principal)

(For & on behalf of the Bidder/Contractor)

(Office seal)

(Office seal)

Place

Date

Witness 1:

(Name & Address)

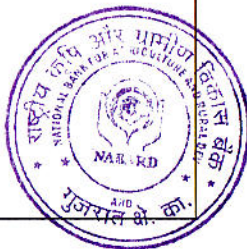
Witness 2:

(Name & Address)



PRICE BID

(Part-II)



SCHEDULE OF QUANTITIES

**Renovation of firefighting system in NABARD Office Building, at Usmanpura
(Opp. Municipal Garden), Ahmedabad - 380013**

| Sr No. | Description | Total Qty | Unit | | |
|----------|--|-----------|------|--|--|
| A | Pump Room (Positive Suction Head) | | | | |
| 1 | Providing, fixing, testing & commissioning of Horizontal centrifugal end suction Electrical Motor Driven Main Fire Pump with gland packing and capacity of 137 M3/ Hour @ 70Mtr Head . The pump shall be coupled to TEFC motor of suitable HP & speed and complete set shall be mounted on common base frame . The quoted rate shall include providing & fixing of coupling, coupling guard, matching flanges for suction & delivery side, Foundation bolts etc. Common for Fire Hydrant & Sprinkler System | 1 | No. | | |
| 2 | Providing, fixing, testing & commissioning of Horizontal centrifugal end suction Diesel Engine driven common stand by pump with gland packing and capacity of 137 M3/Hour @ 70Mtr Head . The pump shall be coupled to suitable HP of Diesel engine radiator water cooled type and mounted on common base frame. Batteries & battery leads with stand, Fuel tank (For 4 Hrs. running and filled fully) with stand & gauge glass & Fuel piping with valves etc. The quoted rate shall include coupling guard, and other standard accessories and foundation bolts etc. complete. (Stand By Pump) | 1 | No. | | |
| 3 | Providing, fixing, testing & commissioning of Vertical Inline Jockey pump capacity of 10.8 M3/Hour @ 70Mtr Head . The pump shall be coupled to TEFC motor of suitable HP & speed and complete set shall mounted on common base frame. The quoted rate shall include | 1 | No. | | |



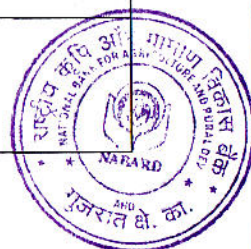
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| | providing & fixing coupling, coupling guard, matching flanges for suction & delivery side. | | | | |
| 4 | Providing, fixing, testing & commissioning of Floor mounted Common Control Fire Pump Panel fabricated from 2mm thick CRCA sheet duly phosphatized and powder coated suitable for receiving 415 Volts, 50Hz, 3 phase AC supply , including providing and fixing the following switch gears, metering and protective devices, suitable size TPN aluminium busbars, connections, inter connections, earthing etc. as required as per specifications. | 1 | No. | | |
| 5 | Providing, fixing, testing and commissioning Cabling work from Panel to Fire Pumps (Main Incomer power supply in client scope) | 1 | Job | | |
| 6 | Providing, fixing, testing & commissioning of Glycerin Filled 150mm dia dial type Pressure Gauge and range of 0-15 Kg/cm ² . | 4 | Nos. | | |
| 7 | Providing, fixing, testing & commissioning of Pressure Switches for automation of fire pumps. Pressure switches shall be double pole single throw type suitable for 3 phase supply with diaphragm. Aluminium Enclosure with IP 66 protection as required.. | 3 | Nos. | | |
| 8 | Providing, fixing, testing & commissioning of Air Vessel fabricated from M.S. sheet with dished ends and suitable supporting legs, with required necessary valves and connection with required accessories. (Size 450mm dia ,2000mm long) | 3 | No. | | |
| 9 | Providing, fixing, testing & commissioning of C.I. Butterfly valve with SS disc conforming to IS:13095/BS-5155 class PN 16 rating with Fittings, Flanges, Nut-bolts, Washers, Gaskets etc. of size: | | | | |
| 9.1 | 200mm dia. | 1 | No. | | |



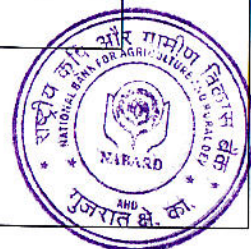
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|------|---|----|------|--|--|
| 9.2 | 150mm dia. | 4 | Nos. | | |
| 9.3 | 100mm dia. | 3 | Nos. | | |
| 9.4 | 80mm dia. | 2 | Nos. | | |
| 9.5 | 65mm dia | 1 | No. | | |
| 9.6 | 50mm dia | 1 | Nos. | | |
| 10 | Providing, fixing, testing and commissioning of C.I. Dual plate type Non-Return Valve class PN 16 rating with fittings, flanges, nut-bolts, washers, gaskets etc. of sizes: | | | | |
| 10.1 | 150mm dia. | 2 | Nos. | | |
| 10.2 | 65mm dia. | 1 | No. | | |
| 11 | Providing, fixing, testing and commissioning of C.I. Y Type Strainer with SS mesh all fittings & fixtures. | | | | |
| 11.1 | 200mm dia | 1 | No. | | |
| 12 | Providing, fixing, testing and commissioning of Bronze Ball Valves , Body - Forged or Cast Carbon Steel, Trim and Ball SS410, Seat SS410 and tested to 20 kg/cm2 pressure. Threaded End | | | | |
| 12.1 | 25mm dia | 2 | Nos. | | |
| 12.2 | 15mm dia | 7 | Nos. | | |
| 13 | Providing, fixing, testing and commissioning of Above Ground M.S. ERW Black C Class Heavy duty pipes as per IS: 1239 (upto 150 mm dia.) and IS: 3589 (upto 200 mm dia. And above) including cutting, screwing, welding etc. and providing all fittings like flanges, bends, tees, elbows, reducers, clamps, hangers etc. with painting of one coat of primer and 2 or more coats of synthetic enamel paint of approved make / shade complete as per specification. | | | | |
| 13.1 | 200mm dia | 12 | Mtr. | | |
| 13.2 | 150mm dia | 18 | Mtr. | | |
| 13.3 | 100mm dia | 12 | Mtr. | | |
| 13.4 | 80mm dia | 6 | Mtr. | | |
| 13.5 | 65mm dia | 6 | Mtr. | | |



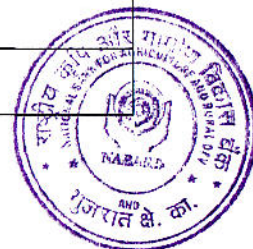
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| 13.6 | 50mm dia | 6 | Mtr. | | |
| 13.7 | 25mm dia | 6 | Mtr. | | |
| B | Fire Hydrant System piping & Accessories | | | | |
| 14 | Providing, fixing, testing and commissioning of Under Ground MS C Class Heavy duty pipes as per IS: 1239 (upto 150 mm dia.) and IS: 3589 (upto 200 mm dia. and above) with IWL/pypecoat, 4mm thickness wrapping and coating and providing all fittings like flanges, elbow with all required. | | | | |
| 14.1 | 150mm dia. (Rate Only) | 0 | Mtr. | | |
| 14.2 | 100mm dia | 24 | Mtr. | | |
| 14.3 | 80mm dia (Rate Only) | 0 | Mtr. | | |
| 15 | Providing, fixing, testing and commissioning of Above Ground M.S. ERW Black C Class Heavy-duty pipes as per IS: 1239 (upto 150 mm dia.) and IS: 3589 (upto 200 mm dia. And above) including cutting, screwing, welding etc. and providing all fittings like flanges, bends, tees, elbows, reducers, clamps, hangers etc. with painting of one coat of primer and 2 or more coats of synthetic enamel paint of approved make / shade complete as per specification. | | | | |
| 15.1 | 150mm dia. (Rate Only) | 0 | Mtr. | | |
| 15.2 | 100mm dia. | 126 | Mtr. | | |
| 15.3 | 80mm dia | 12 | Mtr. | | |
| 16 | Providing, fixing, testing & commissioning of C.I. Butterfly valve conforming to IS:13095/BS-5155 class PN 16 rating with Fittings, Flanges, Nutbolts, Washers, Gaskets etc. of size: | | | | |
| 16.1 | 100mm dia | 5 | Nos. | | |
| 16.2 | 80mm dia. (Rate Only) | 0 | Nos. | | |
| 16.3 | 50mm dia | 3 | Nos. | | |
| 17 | Providing, fixing, testing and commissioning of C.I. Dual plate type Non-Return Valve class PN 16 rating with fittings, | | | | |



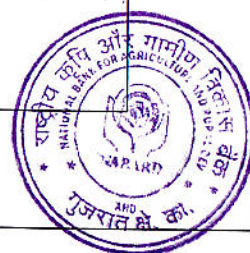
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|-----------|---|----|------|--|--|
| | flanges, nutbolts, washers, gaskets etc. of sizes: | | | | |
| 17.1 | 100mm dia | 1 | No. | | |
| 17.2 | 50mm dia | 1 | No. | | |
| 18 | Fire Fighting Equipment | | | | |
| 18.1 | Providing, fixing, testing and commissioning of weather proof standard fire Hose Cabinet wall mounting type 18 Gauge. (750 x 600 x 250) having Double Opening with M.S. fabricated stand, necessary locking arrangement by allan key. | 4 | Nos. | | |
| 18.2 | Providing, fixing, testing and commissioning of 63 mm dia 15m long RRL Hose Pipe with 63 mm dia. Type A Male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 as required. | 8 | Nos. | | |
| 18.3 | Providing, fixing, testing and commissioning of SS Branch Pipe with nozzle of 20 mm nominal bore outlet suitable to fit with standard instantaneous type 63 mm dia coupling. As per IS:903 | 13 | Nos. | | |
| 18.4 | Providing, fixing, testing and commissioning of Wall mounting swing type First aid Fire Hose Reel with drum, hanging bracket, 36 M x 25 mm dia high pressure hose reel tubing as per IS:884 with Shut nozzle and 20mm dia Ball valve and all required accessories. | 10 | Nos. | | |
| 18.5 | Providing, fixing, testing and commissioning of 25 mm dia Air Release Valve and Ball Valve assembly on top of each riser for Air release from the system. | 1 | Nos. | | |
| 18.6 | Providing & fixing of Mechanical Foam 9 Ltrs. Stored Pressure Type Controllable discharge mechanism applicable on Class A & B Fire Rating 2A & 21 B | 2 | Nos. | | |
| 18.7 | Providing 20 kg, trolley mounted, stored pressure fire extinguishers | 3 | Nos. | | |



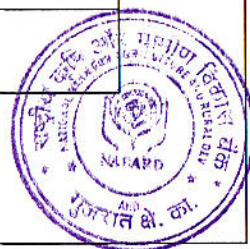
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| 18.8 | Providing, fixing, testing & commissioning of Glycerin Filled 150mm dia dial type Pressure Gauge and range of 0-15 Kg/cm ² at terrace, ground floor and courtyard area. | 4 | Nos. | | |
| C | Electrical Shaft and Openings | | | | |
| 19 | Providing and Fixing of MS Shaft Door for Electrical Shaft with Fire Retardant Paint. The Quoted rates shall be inclusive of fasteners, Fire retardant paint of fire rating 1 Hour and all necessary requirement to fix in electrical shaft. The MS Sheet should be 16 Gauge Size of Door 1200mm (width) X1500mm (height) Size of Fix Area at bottom of Door (1200mm width X 700mm height) | 10 | Nos. | | |
| 20 | Providing and fixing of Mortar seal for fire penetration sealing system in floor opening for vertical shaft & wall opening FM Approved class 4990 the mortar seal shall have minimum - 2 hours fire resistance. | 12 | Sqmtr | | |
| 21 | Providing and fixing of Fire sealant paint for fire penetration sealing system in floor opening for vertical shaft & wall opening FM Approved class 4990 the paint seal shall have minimum - 2 hours fire resistance | 80 | KG | | |
| D | Sprinkler System Piping & Accessories | | | | |
| 22 | Providing, fixing, testing and commissioning of Above Ground M.S. ERW Black C Class Heavyduty pipes as per IS: 1239 (upto 150 mm dia.) and IS: 3589 (upto 200 mm dia. And above) including cutting, screwing, welding etc. and providing all fittings like flanges, bends, tees, elbows, reducers, clamps, hangers etc. with painting of one coat of primer and 2 or more coats of synthetic enamel paint of approved make / shade complete as per specification. | | | | |
| 22.1 | 25mm dia | 6 | Mtr. | | |



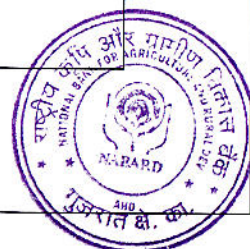
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|----------|--|----|------|--|--|
| 23 | Providing, fixing, testing and commissioning of Sprinkler Alarm valve of cast iron body and brass/bronze working parts comprising of water motor alarm, bronze seat clapper, and clapper arm, hydraulically driven mechanical gong bell to sound continuous alarm when the sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, flanges, gasket etc. 100mm dia. | 1 | No. | | |
| 24 | Providing and fixing, testing and commissioning of K 5.6 Pendent type Standard Response Sprinkler rating of 57 deg.C. with required accessories. (Providing in Store Room near Kitchen) | 2 | Nos. | | |
| 25 | Providing & Fixing of GI Tie Rod Support with GI Patti Clamp for Sprinkler system at Basement parking area.(Wherever required) | 1 | Job | | |
| E | On-Off Pump Trigger System and Miscellaneous | | | | |
| 26 | Providing, fixing, testing and commissioning of On _Off Switch | 10 | Nos | | |
| 27 | Providing, fixing, testing and commissioning of 3 C X 1.5 Sqmm flexible cable with PVC conduit | 50 | Mtr | | |
| 28 | Providing and fixing, testing and commissioning of Auto Glow Signages. | | | | |
| 28.1 | Emergency Exit 4" X 12" | 10 | Nos | | |
| 28.2 | Fire Fighting Equipment 8" X 12" | 9 | Nos | | |
| 28.3 | Fire extinguisher" 8"x 4" | 9 | Nos | | |
| 29 | Modification work for Two Way Fire Brigade Inlet (Change the Direction) | 1 | Job | | |
| 30 | Modification work for Two Hydrant Points with increasing of Height 300mm including of 80mm dia pipe | 1 | Job | | |
| 31 | Modification work for Hose Reel Connection from Fire Hydrant Riser to Hose Reel Drum. | 9 | Job | | |



| | | | | | |
|----------|---|-----|-------|--|--|
| | Need to cut the fire hose pipe and do proper) | | | | |
| 32 | Servicing , Testing and Commissioning of Fire Hydrant System & Fire Sprinkler System | 1 | Job | | |
| 33 | Providing & Fixing of Structure Steel Support for Fire Hydrant System piping | 550 | KG | | |
| 34.1 | MS painted Fire bucket stand with roof/canopy and capacity to carry 4 sand buckets of 10 litre nominal capacity | 1 | Nos | | |
| 34.2 | MS painted fire bucket stand with capacity to carry 2 sand buckets of 10 litre nominal capacity | 1 | Nos | | |
| 34.3 | Galvanized mild steel painted sand buckets of 10 litre nominal capacity filled with dry yellow fire sand | 6 | Nos | | |
| F | Civil Work | | | | |
| 35 | Preparation of Suitable cement concrete foundation, duly plastered with anti-vibration pads, for Main Electrical Driven Fire Pump | 1 | No. | | |
| 36 | Preparation of Suitable cement concrete foundation, duly plastered with anti-vibration pads, for Stand-by Diesel Driven Fire Pump | 1 | No. | | |
| 37 | Preparation of Suitable cement concrete foundation, duly plastered with anti-vibration pads, for Jockey Fire Pump | 1 | No. | | |
| 38 | Providing & Making of PCC Pedestal Support for Hydrant Line in External site plan (Size 300mm X300mm X500mm) | 45 | Nos | | |
| 39 | Excavation and Back filling in RCC Road and Re-finishing. | 7 | Cumtr | | |
| 40 | Excavation and Back filling in Hard Soil and Re-finishing. | 8 | Cumtr | | |
| 41 | Providing & Fixing of Hume Pipe 300mm dia NP3 Class | 10 | Mtr | | |
| 42 | Core Cutting in RCC Slab /Beam and wall upto 150mm dia | 9 | Nos | | |



| | | | | | |
|----------|---|------|-------|--|--|
| 43 | Supply, Installation, Testing and Commissioning of 12 Zone Fire Alarm Control Panel, with Touch key pad, 20 X 4 Character LCD Display, Inbuilt RS-485 Communication card can connect Max. 16 panels in a single network communication, Peer to Peer network through RS-485 communication. Including battery set for alarm panel | 1 | Nos | | |
| 44 | Supply, Installation, Testing and Commissioning of Optical Smoke Detector with base - UL Listed. | 135 | Nos | | |
| 45 | Supply, Installation, Testing and Commissioning of Heat Detector (ROR and Fixed Temp) with base - UL Listed. | 33 | Nos | | |
| 46 | Supply, Installation, Testing and Commissioning of Response Indicators. | 50 | Nos | | |
| 47 | Supply, Installation, Testing and Commissioning of ABS Manual Call Point with key - break/Resettable type. | 9 | Nos | | |
| 48 | Supply, Installation, Testing and Commissioning of ABS Sounder cum strobe - 24V, 85 db | 11 | Nos | | |
| 49 | Supply and laying of 2C x 1.5sqmm Copper FRLS armoured cable. | 3000 | meter | | |
| G | AMC | | | | |
| 50 | Comprehensive Annual Maintenance Contract for parts of existing old fire-fighting setup. Frequency of maintenance will be monthly. This will also include monthly maintenance of newly installed system | 1 | Job | | |
| H | Approval from Fire Authority | | | | |
| 51 | Approval of Fire System From Local Fire Authority Getting of Fire Fighting System Approval from local fire authority with all other charges and documentations for getting No Objection Certificate including videography, Photography and given live demonstration, Training & Testing the Fire Fighting System | 1 | Job. | | |



| | | | | | |
|-----------|---|-------------------------------|-----|--|--|
| I (52) | Throwing away/ Disposal of unserviceable materials/ debris etc. generated during execution of work at reasonable intervals | 1 | Lot | | |
| | | Total | | | |
| | | GST @ _____ | | | |
| | | Grand Total | | | |
| | | Grand Total (in words) | | | |
| J (53) | Buyback of old serviceable materials such as scrap iron parts, pumps, generators, pipes etc., if any. The amount quoted is to be subtracted from the above total. | 1 | lot | | |
| | | Net Total | | | |
| | | Net Total (in words) | | | |

Place :

Date :

(Signature of the Tenderer)

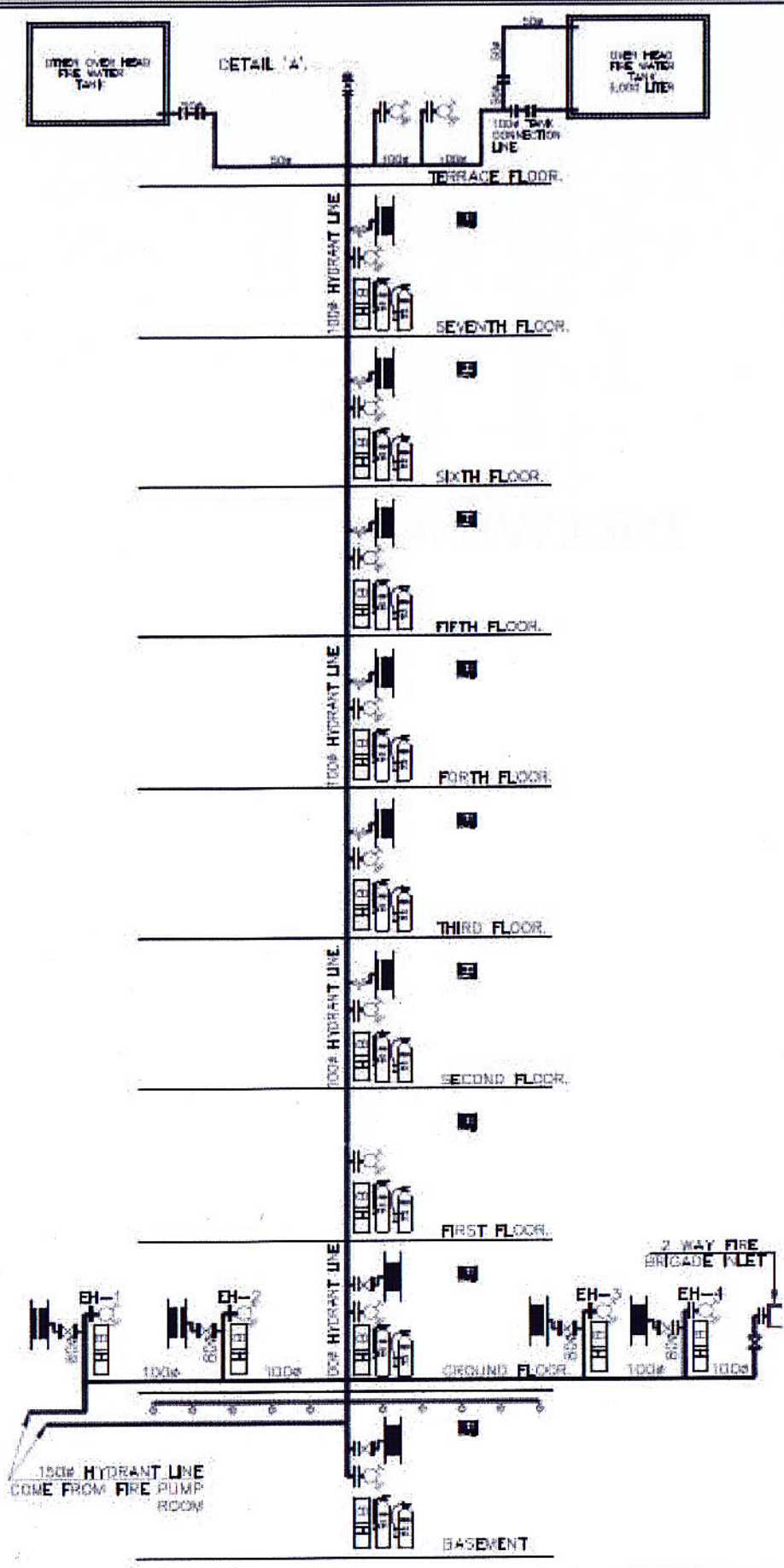
Address :

Name and Seal



DRAWINGS





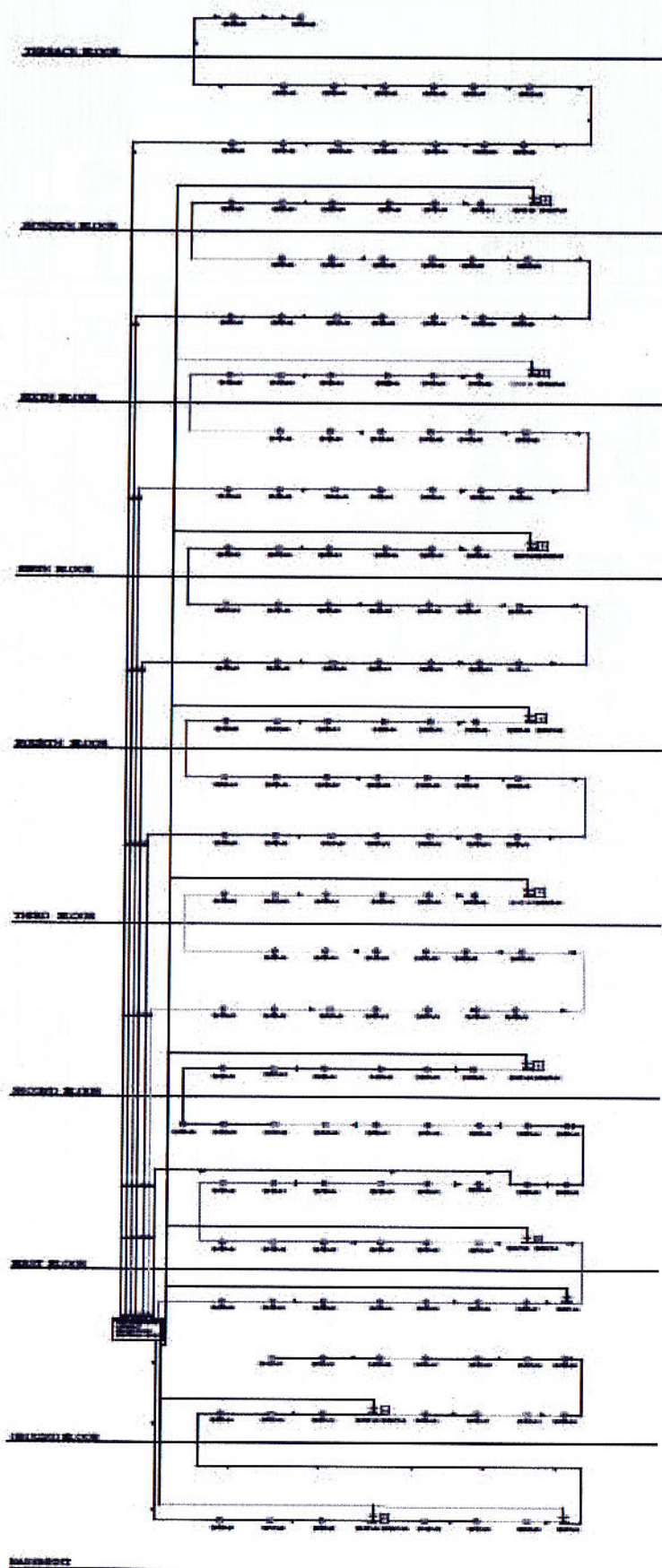
SCHEMATIC DRAWING FOR FIRE FIGHTING SYSTEM

LEGEND-

| SYMBOL | DESCRIPTION |
|--------|------------------------------------|
| — | HYDRANT PIPE 100mm BORE |
| ⊕ | SPRAY FIRE BRIGADE HYD |
| ⊕ | INTERNAL REEF HYDRANT VALVE |
| — | HOSE REEL 30MTR LONG |
| ⊕ | HOSE BOX WITH 100mm HOSE PIPE |
| ⊕ | WATER VALVE |
| ⊕ | NON RETURN VALVE |
| ⊕ | ON - OFF SWITCH |
| ⊕ | 100mm TYPE FIRE EXTINGUISHER 4.5KG |
| ⊕ | 450 TYPE FIRE EXTINGUISHER 10KG |

| | | | |
|--|------|-------------|----------|
| NO. | DATE | DESCRIPTION | REVISION |
| | | | |
| | | | |
| | | | |
| <p>SCHEMATIC DRAWING</p> <p>SYSTEM INFORMATION</p> <p>System: 2-Way Fire System (2-Way Fire System)</p> <p>Location: 100mm Hydrant Line</p> <p>Design: 100mm Hydrant Line</p> <p>Material: 100mm Hydrant Line</p> <p>Notes: 100mm Hydrant Line</p> | | | |
| <p>PROJECT</p> <p>PROJECT: 100mm Hydrant Line</p> | | | |
| <p>DESIGN</p> <p>DESIGN: 100mm Hydrant Line</p> | | | |
| <p>CONSTRUCTION</p> <p>CONSTRUCTION: 100mm Hydrant Line</p> | | | |
| <p>REVISIONS</p> <p>REVISIONS: 100mm Hydrant Line</p> | | | |





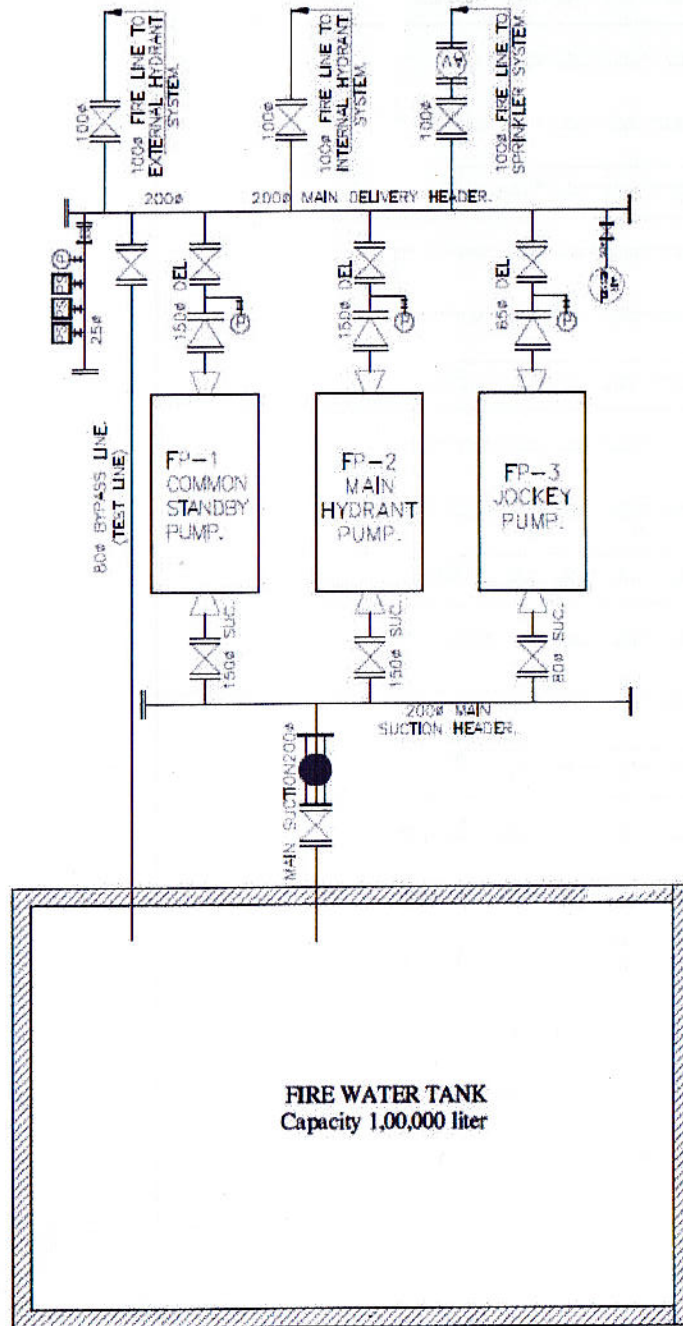
LEGEND-

| SYMBOL | DESCRIPTION | QTY. |
|--------|-------------------|----------|
| | SMOKE DETECTOR | 125 NOS. |
| | HEAT DETECTOR | 25 NOS. |
| | MANUAL CALL POINT | 25 NOS. |
| | NOTIFIER | 11 NOS. |
| | FIRE ALARM PANEL | 1 NO. |
| --- | ZONE-1 CABLE | --- |
| --- | ZONE-2 CABLE | --- |
| --- | ZONE-3 CABLE | --- |
| --- | ZONE-4 CABLE | --- |
| --- | ZONE-5 CABLE | --- |
| --- | ZONE-6 CABLE | --- |
| --- | ZONE-7 CABLE | --- |
| --- | ZONE-8 CABLE | --- |
| --- | ZONE-9 CABLE | --- |
| --- | 220V POWER CABLE | --- |

| | |
|-------------|----------|
| DESIGNED BY | ENGINEER |
| CHECKED BY | ... |
| DATE | ... |
| PROJECT NO. | ... |
| SCALE | ... |



**SCHEMATIC DRAWING FOR FIRE
PUMP ROOM OF NARRAD TOWER**



FIRE WATER TANK
Capacity 1,00,000 liter

LEGEND:-

| SYMBOL | DESCRIPTION |
|--------|-----------------------|
| | BUTTERFLY VALVE |
| | NON RETURN VALVE |
| | Y TYPE STRAINER |
| | PRESSURE GAUGE |
| | PRESSURE SWITCH |
| | SPRINKLER ALARM VALVE |
| | REDUCER |
| | AIR VENT |

PUMPS SCHEDULE:-

| SL. NO. | PUMP NO. | DESCRIPTION | SERVICE | CAPACITY M ³ /HR. | HEAD IN MTR. | POWER LOAD IN K.W. | TYPE | DRIVE |
|---------|----------|-----------------------|--------------------------|------------------------------|--------------|--------------------|-------------------------------------|---------------|
| 1. | FP-1 | COMMON STAND BY PUMP. | HYDRANT/SPRINKLER SYSTEM | 137 | 70 | - | HORIZONTAL CENTRIFUGAL END SUCTION. | DIESEL ENGINE |
| 2. | FP-2 | HYDRANT MAIN PUMP. | HYDRANT/SPRINKLER SYSTEM | 137 | 70 | 45KW. | HORIZONTAL CENTRIFUGAL END SUCTION. | MOTOR |
| | FP-3 | COMMON JOCKEY PUMP. | HYDRANT/SPRINKLER SYSTEM | 10.8 | 70 | 7.5KW. | HORIZONTAL CENTRIFUGAL END SUCTION. | MOTOR |

| | |
|-------------|---|
| | NARAD TOWER FIRE PUMPING STATION |
| PROJECT NO. | NTFS/2018/01 |
| DATE | 15/08/2018 |
| DESIGNED BY | DR. P. S. S. S. |
| CHECKED BY | DR. P. S. S. S. |
| SCALE | AS SHOWN |
| PROJECT NO. | NTFS/2018/01 |
| DATE | 15/08/2018 |
| DESIGNED BY | DR. P. S. S. S. |
| CHECKED BY | DR. P. S. S. S. |
| SCALE | AS SHOWN |

Measurement Sheet



| Sr. No | Item Description | Floorwise Qty Description | | | | | | | | | | | Total Qty | Unit |
|--------|--|----------------------------|---|---------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| | | Fire Pump Room at Basement | External Hydraulic System at Ground Floor | Basement Plan | Ground Floor | 1st Floor | 2nd Floor | 3rd Floor | 4th Floor | 5th Floor | 6th Floor | 7th Floor | | |
| A | Pump Room (Positive Suction Head) | | | | | | | | | | | | | |
| 1 | Providing, fixing, & testing of commissioning of Horizontal centrifugal end suction Electrical Motor Driven Main Fire Pump with gland packing and capacity of 137M3/Hour@70Mtr Head.The pump shall be coupled to TEFC motor of suitable HP & speed and complete set shall mounted on common base frame . The quoted rate shall | 1 | | | | | | | | | | | | 1 No. |



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No.

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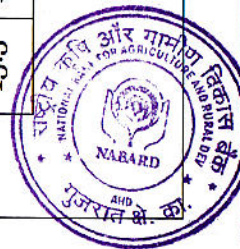
Providing, testing & commissioning of Horizontal centrifugal end suction Diesel Engine driven common stand by pump with gland packing and capacity of 137M3/Hour@70Mtr Head. The pump shall coupled to suitable HP of Diesel engine radiator water cooled type and mounted on common base frame. Batteries & battery leads with stand, Fuel tank (For 4 Hrs. running and filled fully) with stand &



| 9.6 | 50mm dia | 1 | | | | | | | | | | | | | | | | 1 | Nos. |
|------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|------|
| 10 | Providing, fixing, and testing and commissioning of C.I. Dual plate type Non-Return Valve class PN 16 rating with fittings, flanges, nutbolts, washers, gaskets etc.of sizes: | | | | | | | | | | | | | | | | | | |
| 10.1 | 150mm dia. | 2 | | | | | | | | | | | | | | | | 2 | Nos. |
| 10.2 | 65mm dia | 1 | | | | | | | | | | | | | | | | 1 | No. |
| 11 | Providing, fixing, and testing and commissioning of C.I. Y Type Strainer with SS40 mesh all fittings & fixtures. | | | | | | | | | | | | | | | | | | |
| 11.1 | 200mm dia | 1 | | | | | | | | | | | | | | | | 1 | No. |
| 12 | Providing, fixing, and testing and commissioning of SS Ball Valves ,Body - Forged or Cast Carbon Steel ,Trim and Ball SS410 , Seat SS410 and tested to 20 kg/cm2 pressure. Threaded End | | | | | | | | | | | | | | | | | | |



| | | | | | | | | | | | | | | | | | | | | |
|------|---|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|------|
| 12.1 | 25mm dia | 2 | | | | | | | | | | | | | | | | | 2 | Nos. |
| 12.2 | 15mm dia | 7 | | | | | | | | | | | | | | | | | 7 | Nos. |
| 13 | Providing, fixing, and testing and commissioning of Above Ground M.S. ERW Black C Class Heavyduty pipes as per IS: 1239 (upto 150 mm dia.) and IS: 3589 (upto 200 mm dia. And above) including cutting, screwing, welding etc. and providing all fittings like flanges, bends, tees, elbows, reducers, clamps, hangers etc. with painting of one coat of primer and 2 or more coats of synthetic enamel paint of approved make / shade complete as per specification. | | | | | | | | | | | | | | | | | | | |
| 13.1 | 200mm dia | 12 | | | | | | | | | | | | | | | | | 12 | Mtr. |
| 13.2 | 150mm dia | 18 | | | | | | | | | | | | | | | | | 18 | Mtr. |
| 13.3 | 100mm dia | 12 | | | | | | | | | | | | | | | | | 12 | Mtr. |



| | | | | | | | | | | | | | | | | | | | |
|------|--|---|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|------|
| 13.4 | 80mm dia | 6 | | | | | | | | | | | | | | | | 6 | Mtr. |
| 13.5 | 65mm dia | 6 | | | | | | | | | | | | | | | | 6 | Mtr. |
| 13.6 | 50mm dia | 6 | | | | | | | | | | | | | | | | 6 | Mtr. |
| 13.7 | 25mm dia | 6 | | | | | | | | | | | | | | | | 6 | Mtr. |
| B | Fire Hydrant System piping & Accessories | | | | | | | | | | | | | | | | | | |
| 14 | Providing, fixing, and testing of commissioning of Under Ground MS C Class Heavy duty pipes as per IS: 1239 (upto 150 mm dia.) and IS: 3589 (upto 200 mm dia. And above) with IWL/pypecoat, 4mm thickness wrapping and coating and providing all fittings like flanges, elbow with all required. | | | | | | | | | | | | | | | | | | |
| 14.1 | 150mm dia. | | 0 | | | | | | | | | | | | | | | 0 | Mtr. |
| 14.2 | 100mm dia | | 24 | | | | | | | | | | | | | | | 24 | Mtr. |
| 14.3 | 80mm dia | | 0 | | | | | | | | | | | | | | | 0 | Mtr. |



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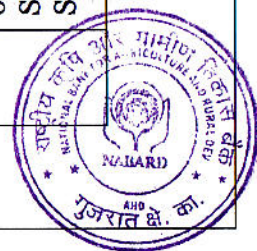
[illegible]

| No. | 1 | No. |
|-----|--|-----|
| 23 | Providing, fixing, testing and commissioning of Sprinkler Alarm valve of cast iron body and brass/bronze working parts comprising of water motor alarm, bronze seat clapper, and clapper arm, hydraulically driven mechanical gong bell to sound continuous alarm when the sprinkler system activates, pressure guages, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, flanges, gasket etc. 100mm dia. | 1 |
| 24 | Providing and fixing, testing and commissioning of K 5.6 Pendent type Standard Response Sprinkler rating of 57 deg.C. with required | 2 |

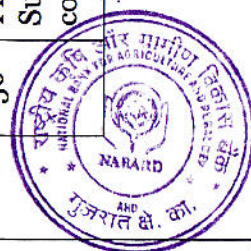
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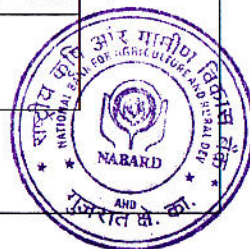
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|------|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| 28.1 | Emergency Exit 4" X 12" | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | Nos |
| 28.2 | Fire Fighting Equipment 8" X 12" | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | Nos |
| 28.3 | Fire extinguisher" 8"x 4" | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | Nos |
| 29 | Modification work for Two Way Fire Brigade Inlet (Change the Direction) | 1 | | | | | | | | | | | | | | | | 1 | Job |
| 30 | Modification work for Two Hydrant Points with increasing of Height 300mm including of 80mm dia pipe | | | | | | | | | | | | | | | | 1 | 1 | Job |
| 31 | Modification work for Hose Reel Connection from Fire Hydrant Riser to Hose Reel Drum. Need to cut the fire hose pipe and do proper) | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | Job |
| 32 | Servicing , Testing and Commissioning of Fire Hydrant System & Fire Sprinkler System | | | | | | | | | | | | | | | 1 | | 1 | Job |



| 33 | Providing & Fixing of Structure Steel Support for Fire Hydrant System piping | 550 | | | | | | | | | | 550 | KG | | |
|------|---|-----|--|--|--|--|--|---|--|--|--|-----|----|---|-----|
| 34.1 | MS painted Fire bucket stand with roof/canopy and capacity to carry 4 sand buckets of 10 litre nominal capacity | | | | | | | 1 | | | | | | 1 | Nos |
| 34.2 | MS painted fire bucket stand with capacity to carry 2 sand buckets of 10 litre nominal capacity | | | | | | | | | | | | 1 | 1 | Nos |
| 34.3 | Galvanized mild steel painted sand buckets of 10 litre nominal capacity filled with dry yellow fire sand | | | | | | | 4 | | | | | 2 | 6 | Nos |
| F | Civil Work | | | | | | | | | | | | | | |
| 35 | Preparation of Suitable cement concrete foundation for Main Electrical Driven Fire Pump | 1 | | | | | | | | | | | | 1 | No. |
| 36 | Preparation of Suitable cement concrete foundation | 1 | | | | | | | | | | | | 1 | No. |



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| | fire authority with all other charges and documentations for getting No Objection Certificate including videography, Photography and live demonstration, Training & Testing the Fire Fighting System | | |
|--|--|--|--|

Place :

Date :

(Signature of the Tenderer)

Address :

Name and Seal



