



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
पूर्वी क्षेत्रीय प्रयोगशाला
Eastern Regional Laboratory,
पी 230-, सीआईटी स्कीम VII एम
P-230, C.I.T. Scheme VII M,
ब्लॉकडब्लू-, कंकुरगाछी
Block-W, Kankurgachi,
कोलकाता - 700054, पश्चिम बंगाल
Kolkata – 700054, West Bengal

भारतीय मानक ब्यूरो, पूर्वी क्षेत्रीय प्रयोगशाला, कोलकाता के भवन पर
पेयजल परीक्षण और स्वर्ण आभूषण परीक्षण प्रयोगशाला के लिए बुनियादी ढांचे के निर्माण हेतु ईनिविदा -
दस्तावेज

E-Tender Document for
CREATION OF INFRASTRUCTURE FOR WATER TESTING AND ASSAY LABORATORY
AT
BIS EASTERN REGIONAL LABORATORY AT KOLKATA

(www.bis.gov.in और <https://eprocure.gov.in> से निःशुल्क डाउनलोड के लिए उपलब्ध)

(Available for download free of cost from www.bis.gov.in and <https://eprocure.gov.in>)

निविदा संदर्भ संख्या /Tender Reference Number: EROL/W&A Lab/1

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खंड/Section-1

आमंत्रित निविदा सूचना/NOTICE INVITING TENDER
भारतीय मानक ब्यूरो /BUREAU OF INDIAN STANDARDS
पूर्वी क्षेत्रीय प्रयोगशाला/ Eastern Regional Laboratory,
पी230-, सीआईटी स्कीम VII एम/ P-230, C.I.T. Scheme VII M,
ब्लॉकडब्लू-, कंकुरगाछी/ Block-W, Kankurgachi,
कोलकाता 700054/ Kolkata-700054.
www.bis.gov.in

.1भारतीय मानक ब्यूरो)इसके बाद ब्यूरो या बीआईएस के रूप में संदर्भित (योग्य बोलीदाताओं से पूर्वी क्षेत्रीय प्रयोगशाला (ईआरओएल), पी230-, सीआईटी स्कीम VII एम, ब्लॉकडब्लू-, कंकुरगाछी, कोलकाता के भवन पर 700054जल परीक्षण और एस्से प्रयोगशाला के लिए बुनियादी ढांचे के निर्माण हेतु सीपीपीपी (eprocure.gov.in) के माध्यम से दो बोली प्रणाली तकनीकी बोली एवं वित्तीय बोली के अंतर्गत ऑन-लाइन बोलियाँ आमंत्रित करता है | किसी अन्य माध्यमफ़ैक्स) , पोस्ट, ईमेल-,आदि (से जमा की जाने वाली बोली स्वीकार नहीं की जाएगी |

1. The Bureau of Indian Standards (hereinafter referred to as the Bureau or BIS) invites online bids under Two Bid System viz. Technical Bid and Financial Bid through **Central Public Procurement Portal** (eprocure.gov.in) from eligible bidders for **Creation Of Infrastructure For Water Testing And Assay Lab at BIS Eastern Regional Laboratory at P-230, CIT Scheme VII M, Block W, Kankurgachi, Kolkata - 700054**. Bids submitted by any other mode (fax/post/email etc.) shall not be accepted.

स्थान Location	आवश्यकता की अनुसूची Schedule of Requirement	मात्रा Quantity	अनुमानित लागत Approximate Cost	धरोहर जमा राशि Earnest Money Deposit (EMD)
पूर्वी क्षेत्रीय प्रयोगशाला (ईआरओएल), पी230-, सीआईटी स्कीम VII एम, ब्लॉकडब्लू-, कंकुरगाछी, कोलकाता 700054 Eastern Regional Laboratory, P-230, C.I.T. Scheme VII M, Block-W, Kankurgachi, Kolkata 700054	भारतीय मानक ब्यूरो, पूर्वी क्षेत्रीय प्रयोगशाला, कोलकाता के भवन पर पेयजल परीक्षण और स्वर्ण आभूषण परीक्षण प्रयोगशाला के लिए बुनियादी ढांचे के निर्माण हेतु ई- विदानि E-Tender Document for CREATION OF INFRASTRUCTURE FOR WATER TESTING AND ASSAY LABORATORY AT BIS EASTERN REGIONAL LABORATORY AT KOLKATA	बिल ऑफ क्वॉन्टिटी के अनुसार As per BOQ	रुपया/ Rs 23,00,000/-	रुपया/ Rs 75,000/-

2. धरोहर जमा राशि (ईएमडी): बोलीदाता को उक्त ईएमडी के लिए 75000/- रुपये का डिमांड ड्राफ्ट जमा करना है | डिमांड ड्राफ्ट दिनांक 05.04.2018 को 15.00 बजे तक ऑफ-लाइन जमा करना है और डिमांड ड्राफ्ट की स्केन प्रतिलिपि बोली दस्तावेज़ के साथ नीचे दिए गए महत्वपूर्ण तिथि शीट के अंदर ऑन-लाइन अपलोड करनी है |

2. Earnest Money Deposit (EMD): The bidder should submit Demand Draft (DD) for Rs. 75,000/- for the above EMD. The DD has to be submitted off line before **15:00 hrs on 05.04.2018** and scanned copy of DD to be uploaded online before with the bid documents within the dates mentioned in CRITICAL DATE SHEET below.

3. महत्वपूर्ण तिथि शीट/ CRITICAL DATE SHEET:

(क) निविदा दस्तावेज़/फॉर्म जारी करने की तिथि :

a) Date of issue of tender document/forms: 14.03.2018

-बिल जमा करने की प्रारम्भिक तिथि: 14.03.2018

- Bid Submission Start date: 14.03.2018

-प्री बीड सम्मेलन की तिथि : 22.03.2018 को 15.00 बजे

- Pre Bid Meeting Date: 22.03.2018 at 15.00 hrs

(ख) ईएमडी के साथ पूर्ण निविदा आवेदन प्राप्त करने की अंतिम तिथि: 05.04.2018 को 15.00 बजे तक

b) Last date of receipt of completed tender application with EMD: 05.04.2018 upto 15.00 hrs

ग) ईआरओएल, कोलकाता में तकनीकी बोली खोले जाने की तिथि, समय एवं स्थान : 06.04.2018 को 15.30 बजे तक

(c) Date, Time and Venue for opening of Technical Bid: 06.04.2018 at 15.30 hrs in EROL, Kolkata

(वित्तीय बोली केवल उन्हीं फ़र्म की खोली जाएगी, जो तकनीकी बोली में सफल है | वित्तीय बोली खोलने की तिथि अलग से सूचित कर दिया जाएगा |

(Price bid of only those firms would be opened who are qualified in technical bids. Date of opening of price bid would be intimated separately)

4. किसी भी जानकारी के लिए erol@bis.gov.in पर संपर्क करें |

4 .Any queries may be addressed to erol@bis.gov.in

प्रमुख, पूर्वी क्षेत्रीय प्रयोगशाला (ईआरओएल) Head, Eastern Regional Laboratory (EROL)

भारतीय मानक ब्यूरो / Bureau of Indian Standards

पी230-, सीआईटी स्कीम VII एमब्लॉक -डब्लू, P-230, C.I.T. Scheme VII M, Block-W,

कंकुरगाछी, कोलकाता 700054, Kankurgachi, Kolkata-700054

5. निविदा दस्तावेज़ www.bis.gov.in से डाउनलोड किया जा सकता है।

5. Tender document can be downloaded from www.bis.gov.in

हस्ता-/

प्रमुख/Head

ईआरओ प्रयोगशाला, ERO Laboratory

अनुभाग : 2- पात्रता की शर्तें
SECTION-2: ELIGIBILITY CONDITIONS

योग्य बोलीदाता को चाहिए /Eligible Bidder should:

1. एक ऐसी कंपनी होना चाहिए जो न्यूनतम 7 वर्ष की अवधि के लिए अस्तित्व में है / हो और पश्चिम बंगाल में स्थायी प्रतिष्ठान हो | (इससे संबंधित दस्तावेजों की प्रतियां संलग्न होना चाहिए) / Should be a company which has been incorporated/in existence for a minimum period of 7 years and has a permanent establishment in West Bengal (copies of certificate of incorporation and proof of address to be submitted)
2. दिनांक 31-03-2017 को समाप्त होने वाले पिछले तीन वर्षों के दौरान बोली लगाने वाले फर्म के औसत वार्षिक वित्तीय कारोबार कम से कम 8 लाख होना चाहिए | (चार्टर्ड एकाउंटेंट द्वारा लेखापरीक्षित बैलेंस शीट, पीएल का विवरण और आयकर का रिटर्न की प्रतियां संलग्न होनी चाहिए) The Average Annual Financial Turnover of the bidding firm during the last three years, ending on 31.03.2015, 31.03.2016 & 31-03-2017, should be at least Rs. 8 lakhs. (Chartered Accountant certified copies of audited balance sheets, Profit and Loss statement and income tax returns for each of above three years are to be enclosed)
3. 31 जनवरी 2018 को समाप्त हुए पिछले सात (07) वर्षों के दौरान सफलतापूर्वक समान कार्य पूरा करना चाहिए न्यूनतम 19.00 लाख के मूल्य के इस प्रकार के एक काम का पूर्ण सफल कार्य का अनुभव होना चाहिए या 12.00 लाख के मूल्य के इस प्रकार के दो कार्य या 9.50 लाख के मूल्य के इस प्रकार के तीन कार्य, प्रत्येक का अनुभव कम से कम तीन साल का होना चाहिए (इससे संबंधित दस्तावेजों की प्रतियां संलग्न होना चाहिए) (इसी तरह के काम का मतलब आंतरिक निर्माण से संबंधित काम होता है जिसमें एल्यूमीनियम का काम, आंतरिक विद्युतीकरण और नलिका का काम शामिल है)| Should have successfully completed similar works during the last seven (07) years ending 31 January 2018 with one job of minimum value of Rs. 19.00 lakhs (or) a minimum of 2 similar jobs of value of Rs.12.00 lakhs each (or) 3 similar works of Rs. 9.50 lakhs each. (Copies of supporting documents should be enclosed). [Similar work would mean work related to Interior building works including aluminum work, internal electrification and plumbing work].
4. सरकार के मंत्रालयों, भारत सरकार / पीएसयू / सरकार राज्य /विभाग द्वारा काली सूची में नहीं डाला गया है (निर्दिष्ट प्रारूप में घोषणापत्र जमा करना होगा) | Not have been blacklisted by the Depts. /Ministries of the Govt. of India / State Govt. / PSUs (Declaration has to be submitted in the specified format).
5. पीएसयू /सरकारी विभाग /लोक निर्माण निकायों /सीपीडब्ल्यूडी के साथ वैध पंजीकरण होना चाहिए (इससे संबंधित दस्तावेजों की प्रतियां संलग्न होना चाहिए)| Have valid registration with CPWD/ Public Works bodies/Govt. Depts. /PSUs (copies of supporting documents should be enclosed).
6. उप-ठेकेदार के रूप में कार्य अनुभव अपेक्षित योग्यता के रूप में नहीं माना जाएगा। Work experience as a sub-contractor **shall not be** considered as the requisite qualification.
7. जीएसटी का पंजीकरण, ईएसआई एवं पीएफ का पंजीकरण और पैन कार्ड का वैध पंजीकरण होना चाहिए |Should have valid GST registration, ESI & PF registration & PAN Card. Copies of the supporting documents are to be enclosed.

खंड /SECTION 3

बोलीदाताओं के लिए निर्देश /INSTRUCTIONS TO BIDDERS

1. भारतीय मानक ब्यूरो योग्य बोली दाताओं से **पूर्वी क्षेत्रीय प्रयोगशाला (ईआरओएल), कोलकाता में सिविल और विद्युतीय कार्य के लिए** दो बोली प्रणाली (तकनीकी बोली एवं वित्तीय बोली) के अंतर्गत ई-निविदाएँ आमंत्रित करता है | E-tenders are invited, *under two bid system (Technical bid and financial bid)*, by the Bureau of Indian Standards (BIS), from eligible Bidders for Civil And Electrical Works at BIS EROL Building, Kolkata.
2. **निविदा दस्तावेज़ जारी करना / Issue of Tender Document:**
 - a. निविदा दस्तावेज़ ब्यूरो (www.bis.gov.in) और सीपीपीपी (<http://eprocure.gov.in>) के वेबसाइट पर महत्वपूर्ण तिथि शीट (अनुभाग-1) में दर्शाये गए अवधि के दौरान उपलब्ध रहेगा (संदर्भ हेतु) | The Tender document will be available during the period indicated in the **Critical Date Sheet (Section I)**, on the website of the Bureau (www.bis.gov.in) (**for reference only**) and Central Public Procurement Portal (<http://eprocure.gov.in>).
 - b. **बोली निर्दिष्ट प्रोफॉर्मा में दो बोली प्रणाली 1. तकनीकी बोली 2. वित्तीय बोली के अंतर्गत केवल <http://eprocure.gov.in/eprocure/app> वेबसाइट द्वारा ऑन-लाइन जमा किया जाए (बोली जमा करने का विधि हेतु खंड 9 देखें) | Bid has to be submitted only online at <http://eprocure.gov.in/eprocure/app> in two bid systems i.e. (i) Technical bid and (ii) financial bid in the prescribed proforma (see clause 9 for manner of submission of bid).**
 - c. ई प्रोक्योरमेंट में-नामांकन पंजीकृत नहीं होने वाले इच्छुक बोलीदाताओं को वेबसाइट / <http://eprocure.gov.in/eprocure/app> के माध्यम से निविदा में भाग लेने से पहले नामांकन पंजीकरण / होना चाहिए। पोर्टल नामांकन मुफ्त है | Aspiring Bidders who have not enrolled/registered in e-procurement should enrol/ register before participating in the tender through the website <http://eprocure.gov.in/eprocure/app>. The portal enrolment is free of cost.
 - d. **बोलीदाता को बोली तैयार करने एवं जमा करने से संबंधित लागतों का वहन खुद करना होगा | आचरण या बोली प्रक्रिया के परिणाम की परवाह किए बिना, ब्यूरो किसी भी प्रकार से इन लागतों का जिम्मेदार या उत्तरदायी नहीं होगा |** The Bidder shall bear all costs associated with the preparation and submission of its Bid. The Bureau shall, in no case, be responsible or liable for these costs, regardless of the conduct or the outcome of the Bidding process.
3. **बोली अनुबंध की भाषा/Language of Bid/Contract:** बोली की भाषा अंग्रेजी/हिन्दी होगी और सभी पत्राचार अंग्रेजी /हिन्दी आदि में किए जाएंगे | The language of the Bid shall be in English/Hindi and all correspondence, etc. shall conform to the English/Hindi language.

4. प्री बिड बैठक/ Pre-bid Meeting:

- a) सभी इच्छुक बोलीदाताओं के लिए एक पूर्व बोली कोफ़्रेस महत्वपूर्ण तिथि शीट (खंड-1) में दर्शाए गए निर्धारित दिनांक और समय पर आयोजित की जाएगी। बोलीदाताओं को ऑन-लाइन माध्यम से दिए गए समय के दौरान किसी भी प्रकार का स्पष्टीकरण पूछने के लिए अनुमति दी जाएगी। A Pre-bid meeting of all intending Bidders will be held at the scheduled date and time indicated in the **Critical Date Sheet (Section I)**. Intended Bidders will be allowed to seek clarification, if any through online mode between specified clarification date & time.
- b) इच्छुक बोलीदाताओं को यह सलाह दिया जाता है कि बोली लगाने से पूर्व कार्य स्थल को देखें, जिससे कार्य स्थल के स्थिति को जान पाएंगे। निर्दिष्ट कार्य से संबंधित (कोई अन्य यदि हो तो) अतिरिक्त कार्य के लिए अन्य कोई शुल्क का भुगतान नहीं किया जाएगा। Intending bidders are advised to visit the site of work before quoting so as to be familiar with the site conditions. No extra charges would be payable due to additional cost involved for adverse site conditions (if any).

5. बोली की वैधता/Validity of Bids:

इसके खुलने की तारीख से अनुलग्नक 7 में निर्दिष्ट अवधि तक बोलियां मान्य होंगी। The Bids will be valid for a period indicated in **Annexure 7** from the date of its opening.

6. धरोहर राशि/बीड सुरक्षा Earnest Money / Bid Security:

बोलीदाता, ब्यूरो के पास एक ब्याज मुक्त बयाना राशि जमा -के रूप में अनुसूची (ईएमडी)7 में दर्शाए गए राशि के अनुसार जमा करेगा। बयाना राशि भारतीय मानक ब्यूरो, कोलकाता के पक्ष में देय कोलकाता के रूप में जमा की जाएगी। डिमांड ड्राफ्ट की स्केन प्रतिलिपि आवेदन जमा करके के बाद ऑन-लाइन अपलोड किया जाएगा और मूल डीडी खंड 1 में दिए गए विवरण के अनुरूप प्रमुख, पूर्वी क्षेत्रीय प्रयोगशाला (ईआरओएल), पी230-, सीआईटी स्कीम VII एम, ब्लॉकडब्लू-, कंकुरगाछी, कोलकाता 700054 के पास जमा करें। बोलीदाता से अनुरोध है ककि बैंक ड्राफ्ट के पीछे अपना पूरा नाम एवं पूरा पत्ता लिखकर जमा दें। **The Bidder shall deposit with the Bureau a sum indicated in the Annexure 7, as an interest free Earnest Money Deposit (EMD). The Earnest Money shall be deposited in the form of Demand Draft (DD) in favor of Bureau of Indian Standards, Kolkata payable at Kolkata. Scanned copy of DD to be uploaded online at the time of online submission of tender documents and original DD is to be submitted to the Head (EROL), Bureau of Indian Standards, Eastern Regional Laboratory, P-230, C.I.T. Scheme VII M, Block-W, Kankurgachi within the deadline mentioned in Section I. Bidders are requested to write their name and full address at the back of the Bank Draft submitted.**

- a) बयाना राशि जमा करने के लिए विफलता या चूक बोली को अयोग्य घोषित करेगा और ब्यूरो अपने विचार से इस तरह की बोली को अयोग्य घोषित करेगा। The failure or omission to deposit the Earnest Money shall disqualify the Bid and the Bureau shall exclude from its consideration such disqualified Bid(s).
- b) बोली जमा करने के समय मूल डिमांड ड्राफ्ट जमा नहीं होने पर बोलीदाता के विरुद्ध कानूनी कार्रवाई लिया जा सकता है। Bidder shall be liable for legal action for non-submission of original demand draft of EMD against the submitted bid.

- c) बोलीदाता, बोली की वैद्यता अवधि के दौरान ब्यूरो की सहमति के बिना अपनी बोली को रद्द नहीं करेगा या अपने नियमों और शर्तों को भिन्न नहीं करेगा। यदि बोलीदाता, बोली को रद्द करेगा या इसकी शर्तों एवं नियमों में भिन्नता करेगा तो ब्यूरो द्वारा इसके अन्य अधिकारों एवं उपचारों पर प्रतिकूल प्रभाव डाले बिना धरोहर राशि जमा को जब्त कर लिया जाएगा तथा ऐसी रोक की तिथि से प्रभावी होकर महीने की 24 आगामी अवधि के दौरानकार्य करने हेतु बोली प्रस्तुत करने के अधिकार के वंचित कर दिया जाएगा। Bidder shall not revoke his Bid or vary its terms and conditions without the consent of the Bureau during the validity period of the Bid. If the bidder revokes the bid or varies its terms or conditions, the Earnest Money deposited by it shall stand forfeited to the Bureau without prejudice to its other rights and remedies and the Bidder shall be disentitled to submit a Bid to the Bureau for supply of works during the next twenty-four (24) months effective from the date of such revocation.
- d) सफल बोली लगाने वाला निर्धारित सीमा में कार्यकारिता सुरक्षा का भुगतान नहीं करता या समझौते बांड पर हस्ताक्षर करने में विफल रहता है, तो सफल बोलीदाता की धरोहर जमा राशि ब्यूरो द्वारा जब्त की जाएगी। If the successful Bidder fails to furnish the performance security or fails to sign the agreement, its Earnest Money Deposit will be forfeited by the Bureau.
- a. असफल बोलीदाता की बयाना राशि की ब्यूरो के समक्ष अपेक्षित कार्य निष्पादन प्रतिभूत सफलतम बोलीदाता द्वारा प्रस्तुत करने के बाद एवं बोलियों की देयता अवधि की समाप्ती के 30 दिन के भीतर संविदा हस्ताक्षर करने के बाद वापिस लौटा दी जाएगी। The Earnest Money of all Bidders shall be refunded on the request of bidder after the successful Bidder furnishes the required Performance Security to the Bureau and signs the contract or within thirty (30) days of the expiry of validity period of Bids, whichever is earlier.

7. योग्य बोलीदाता / Eligible Bidders

7.1 केवल उन बोलीदाताओं, जो खंड 2 में वर्णित पात्रता मानदंड को पूरा करते हैं, अपनी बोली प्रस्तुत करने के लिए पात्र हैं। Only those Bidders, who fulfill the eligibility criteria as mentioned in the **Section II**, are eligible to submit their Bids.

8. दरें कैसे उद्धृत की जानी हैं / How to quote Rates

- a. The bidders are expected to work out their rates keeping in view the site conditions and arrive at the amount to be quoted. The Bidders shall be deemed to have satisfied themselves before Bidding as to the correctness and sufficiency of its Bid and of the rates and prices quoted in their bid, which rates and prices shall, except as otherwise provided, cover all its obligations under the contract and all matters and things necessary for proper fulfilling his obligations under the contract.
- b. The price quoted shall be **exclusive** of any taxes like GST, service tax, education cess and secondary and higher education cess or any other applicable taxes. The tax component will be quoted separately as mentioned in the bill of quantities.
- c. **The prices are to be quoted by bidders in the BOQ template in the form of an .xls document.** This BOQ template is provided as BOQ_EROL.xls along with this tender document at

<https://eprocure.gov.in/eprocure/app>. Bidders are advised to download this BoQ_EROL.xls as it is and quote their offer/rates in the permitted column and upload the same in the financial bid. **Bidder shall not tamper/modify downloaded price bid template in any manner.** In case if the same is found to be tampered/modified in any manner, his tender will be completely rejected and EMD would be forfeited and Bidder is liable to be banned from doing business with BIS

- d. **Bidders shall also submit a price bid undertaking (scanned copy) as per annexure 15 along with their price bid.**
- e. In case different rates are quoted by the bidder for identical items of work, the lower rates shall be considered for determining L1 bid, award of work and payment.
- f. The rates shall be quoted in Indian Rupee (INR) only in figures and in words. In case of any discrepancy/difference in the amounts indicated in figures and words the amount in words will prevail and will be considered.
- g. **Prices quoted shall be valid for the period of the contract.**
- h. The terms price bid, financial bid and commercial bid have been used interchangeably in this tender document. They shall be taken to mean the same thing wherever they appear in this tender document.

9. बीड जमा करने की पद्धति /Manner of Submission of Bid

- a) Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
- b) Bidders are advised to follow the instructions provided in the 'Instructions to the Bidder for the e-submission of the bids online through the Central Public Procurement Portal for eProcurement at <https://eprocure.gov.in/eprocure/app>'. A set of instructions for online bid submission is also given in **Annexure 11** for reference.
- c) Bid documents may be scanned with minimum 100 dpi with black and white option which helps in reducing size of the scanned document.
- d) The documents comprising the technical bid and the price bid are given in **Clause 12**.
- e) Bidder who has downloaded the tender from the BIS website <http://bis.gov.in> and Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app> shall not tamper/modify the tender form including downloaded price bid template in any manner. In case if the same is found to be tampered/modified in any manner, his tender will be completely rejected and EMD would be forfeited and Bidder is liable to be banned from doing business with BIS.

10. बोलियों का स्पष्टीकरण /Clarifications of bids

To assist evaluation and comparison of the bids, the Bureau may at its discretion ask the bidder for clarification of the bid. The clarification will be asked in writing, online or through the e-procurement portal. The clarification and response from bidder shall also be online through the e-procurement portal (<https://eprocure.gov.in/eprocure/app>)

11. जमा करने की अंतिम तिथि /Last Date for Submission

Bids shall be received as per schedule specified in **Section I (Notice Inviting Tender)** and not later than the time and date specified in **Annexure 7**. Bids received after the specified date and time for receipt of bids shall not be considered. Hence, such bids shall be rejected.

12. बोली दस्तावेज़ की विषय-वस्तु /Contents of Bid Document

The tender shall be submitted online in two parts, viz., technical bid and price bid. All the pages of the bid being submitted must be sequentially numbered by the bidder irrespective of nature of content of the documents before uploading. The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

12.1 तकनीकी बोली/Technical Bid: The following documents are to be furnished by the Bidder as the **Technical Bid** as per the tender document:

- a) Scanned copy of Check-List of all the documents enclosed (as per format at **Annexure 9**);
- b) Scanned copy of EMD as indicated in **Clause 6** above. (Scanned copy to be uploaded and original to be submitted physically within the date mentioned at **Section I**)
- c) Scanned copy of the Details of the firm(s) and the relevant supporting documents (**As per Annexure-2**);
- d) Scanned copy of details of similar type of works executed in the last 3 years and the relevant supporting documents (**As per Annexure-3**);
- e) Scanned copies of declarations regarding black-listing and/or litigations (**As per Annexure-4**), Downloaded from Website & Non-tampered Tender Document (**As per Annexure 5**)
- f) Scanned copy of Tender Acceptance Letter (**As per Annexure 6**)

12.2 वित्तीय बोली/Financial Bid: The following is to be furnished by the Bidder as the **Financial Bid** as per the tender document:

- a) Price bid in the form of **BOQ template BOQ_EROL.xls** available along with this tender document on CPPP website <https://eprocure.gov.in/eprocure/app> (Please see clause 8 above for

manner of quoting rates). Bidders are advised to download this BoQ_EROL.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid. **The BOQ template is also given in Appendix 3, Section 6 for reference only.**

13. भ्रष्ट या कपटपूर्ण आचरण / Corrupt or Fraudulent Practices

13.1 The Bureau requires that the Bidders under this Bid observe the highest standards of ethics during the procurement and execution of such Contracts. Accordingly, the Bureau defines the terms set forth as follows:

- (a) “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of the public official in the procurement processor in contract execution; and
- (b) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or an execution of a contract to the detriment of the Bureau, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Contract amounts at artificial non-competitive levels and to deprive the Bureau of the benefits of the free and open competition.

13.2. The Bureau shall reject a proposal for award, if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the Contract in question; The Bureau shall deem a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

14. संशोधन और प्रस्ताव की वापसी /Modification and Withdrawal of Offer:

Bidder can modify the bid online before bid submission date and time. Once bid is withdrawn by the bidder then he will not be able to submit the bid again.

15. बोली खोलना / Opening of Bid

The Bid received before the time and date specified in Tender Notice, will be opened as per the specified program in the office as mentioned in the **Annexure 7** (if possible), in the presence of Bidders or their authorized representatives who choose to remain present on the opening day, at the scheduled time.

16. बोलीदाताओं की छँटाई /Short-listing of Bidders

The Bureau will short-list technically qualifying Bidders and Financial Bids of only those Bidders, who qualify in technical bids, will be opened at a date and time to be intimated.

17. वित्तीय बोलियाँ खोलना / Opening of Financial Bids

The Bureau shall open financial bids of technically qualified bidders, on notified date, and the rates quoted by the bidder in Bill of Quantities shall then be read out.

18. बोली की स्वीकार्यता / Acceptance of Bid

Acceptance of Bid shall be done by the Competent Authority of the Bureau. The Bureau is not bound to accept the lowest or any Bid. The Bureau reserves the right to reject any or all Bids received without assigning any reason whatsoever. The acceptance of Bid will be communicated to the successful Bidder in writing by the authorized officer of the Bureau.

19. इन्टेन्ट पत्र जारी करना / Issue Of Letter Of Intent

The issue of Letter of Intent shall constitute the intention of the Bureau to place the Purchase Order with the successful bidder. The bidder shall within 15 days of issue of Letter of Intent give its acceptance along with Performance Guarantee in conformity with the bid documents.

20. इन्टेन्ट पत्र रद्द करना / Cancellation Of Letter Of Intent

Failure of the successful bidder to comply with the requirement of submission of Performance Guarantee in time shall constitute sufficient ground for the cancellation of the acceptance of bid and forfeiture of the EMD, in which case The Bureau may make the offer to any other bidder at the discretion of the Bureau or call for new bids.

13. पोस्ट बोली स्पष्टीकरण/ Post Bid Clarifications No post bid clarification at the initiative of the bidders shall be entertained and any effort by the bidders to influence the Bureau in the bid evaluation, bid comparison or award of the contract shall result in rejection of the bid.

14. प्रक्रिया गोपनीय रखी जाएगी /Process to be Confidential

Information relating to the examination, evaluation and comparison of Bids and the award of a Contract shall not be disclosed to Bidders or any other person not officially concerned with such process until the award to the successful Bidder has been announced.

15. अनुबंध दस्तावेज के निष्पादन और कार्य आदेश जारी करना/Execution of Contract Document and Issue of Work Order

- a. The successful Bidder after deposit of Performance Security, is required to execute an Agreement in duplicate in the form attached (**Annexure 8**) with the Bid Documents on a stamp paper of proper value (the proper value at present is **Rs 100/-**). The Agreement should be signed within **7 days** from the date of issue of performance security bank guarantee. The Contract will be governed by the Agreement, the Conditions of the Contract (CoC) and other documents as specified in the CoC (**Section 4**).
- b. It shall be incumbent on the successful Bidder to pay stamp duty, legal and other administrative charges for the Agreement, as applicable on the date of the execution.
- c. **A Work Order** shall be issued to the Bidder on execution of contract agreement. The commencement date and time for completion will be reckoned from the date of the Work Order.

16. ब्यूरो के अधिकार/Rights of the Bureau

- a. The Bureau reserves the right to suitably increase/reduce the scope of work. The right to split up works in two or more parts is reserved by the Bureau and also the right to award contract to more than one agency is reserved.
- b. In case of any ambiguity in the interpretation of any of the clauses in Tender Document or the conditions of the Contract, interpretation of the clauses by the Bureau shall be final and binding on all Parties.

17. बीड दस्तावेज़ का संशोधन/Amendment to bid documents

At any time, prior to the date of submission of bids, the Bureau may for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bid documents by amendments. The amendments/Corrigendum will be notified on the Bureau's Website and these amendments will be binding on them. Bidders are advised to visit again BIS website <http://bis.gov.in/> and CPPP website <https://eprocure.gov.in/eprocure/app> at least 3 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.

18. अनुबंध का भाग बनाने के लिए नोटिस / Notice to form Part of Contract

Tender Notice and these instructions shall form part of the Contract. The Bidder shall submit the Bid which satisfies each and every condition laid down in this tender document, failing which the Bid shall be liable to be rejected. **Conditional Bids will be rejected.**

All bidders are expected to visit and inspect site conditions further to which only they should quote their best prices. For any clarifications **PI contact: Head, EROL. BIS, Kankurgachi, Kolkata - 54 (erol@bis.gov.in).**

अनुबंध की शर्तें Section 4: CONDITIONS OF CONTRACT

1 परिभाषाएँ / DEFINITIONS:

- i) **“Act of Insolvency”** shall mean any act of insolvency as defined by the Presidency Towns insolvency Act or the provincial Act or any amending Statute.
- ii) **‘Annexure’** referred to in these conditions shall mean the relevant annexure appended to the Tender Document and the Contract.
- iii) **‘Approved’** shall mean approved in writing including subsequent confirmation of previous verbal approval and **“Approval”** shall mean approval in writing including as aforesaid.
- iv) **‘Bid’** means the Contractor’s priced offer to the Bureau for the supply of the Works at the specified places and rectification of any defects therein in accordance with the provision of the Contract including the installation and other allied services as accepted by the Letter of Acceptance.
- v) **“Bidder”** shall mean the construction company/agency who quotes against the tender enquiry for undertaking the work.
- vi) **“Bill of Quantities”** means the priced and completed Bill of Quantities forming part of the Bid.
- vii) **‘Bureau’** shall mean Bureau of Indian Standards established under the Bureau of Indian Standards Act, 2016.
- viii) **‘Commencement Date’** means the date on which the work is started on the site (Within 15 days from issue of work order)
- ix) **‘Competent Authority’** shall mean any officer authorized by the Bureau to act on behalf of the Bureau under this contract.
- x) The **“Completion Date”** is the date of completion of the Works as certified by the Bureau.
- ii) **‘Contract’** shall mean and include the Tender Notice, instructions to bidders, terms and conditions of contract, Letter of Acceptance, the Offer, the Agreement and mutually accepted conditions in the authorized correspondence exchanged with the bidder by the Bureau and any other document forming part of the contract.
- iii) **“Contractor”** shall mean the successful bidder whose tender has been accepted by the Bureau and to whom the order is placed by the Bureau and shall include his heirs, legal representatives, successors etc.
- iv) The **“Contractor’s Bid”** is the completed Bidding documents submitted by the Contractor to the Bureau.
- v) **‘Contract Amount’** shall mean the sum quoted by the Contractor in his bid and accepted by the Bureau.
- vi) A **“Defect”** is any part of the Works not completed in accordance with the Contract.
- vii) The **“Defect Liability Period”** is the 12 months period from the date of virtual completion of the work.
- viii) **‘Director General’** shall mean the Director General of the Bureau, for the time being holding that office and also his successor and shall include any officer authorized by him.
- ix) **“Equipment”** is the Contractor’s machinery and vehicles brought temporarily to the Site to construct the Works as well as the equipment already available on the site.
- x) **‘Government’** shall mean the Central Government.
- xi) **‘Letter of Acceptance’** means the formal acceptance by the Bureau.
- xii) **“Material”** are all supplies, including consumables, used by the contractor for incorporation in the Works.

- xiii) “**Months**” are calendar months and “**Days**” are calendar days
- xiv) “**Notice in writing**” or written notice shall mean a notice in written, typed or printed characters sent (unless delivered personally) or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
- xv) “**Plant**” is any integral part of the Works, which is to have mechanical, electrical, electronic, or chemical or biological function.
- xvi) “**Site**” shall mean the site of the contract works as shown bounded red on the site plan attached hereto including any buildings and erections thereon and any other land adjoining thereto inclusively as aforesaid allotted by the Bureau authorized representative for the “Contractor’s use.
- xvii) “**Specification**” means the specification referred to in the tender. In case where no particular specification is given, the relevant specification of the Bureau, where one exists, shall apply.
- xviii) “**Temporary Works**” are works designed, constructed, installed and removed by the Contractor which are needed for construction or installation of the Works.
- xix) “**Tender**” means formal invitation by the Bureau to the prospective bidders to offer fixed price for supply of Works.
- xx) “**Time for Completion**” means the time for completing the works(including passing of tests) or any part thereof as stated in the Contract calculated from the Commencement Date (As per work order).
- xxi) The “**Trained Work Person**” are those employed / proposed to be employed by the Contractor at the Project Site, who have participated and are in possession of a valid Competency Certificate through a program run under the auspices of a University, State Technical Board, Ministry of Government of India.
- xxii) A “**Variation**” is an instruction given by the Bureau, which varies the Works.
- xxiii) “**Virtual/Provisional Completion**” shall mean that the work is completed as per requirements as certified by the and accepted by the Bureau.
- xxiv) “**Works**” shall mean the items to be executed for the Bureau by the Contractor as stated in the Contract and shall include installation and other services that are prescribed in the Tender document.

2. अनुबंध के पक्ष /PARTIES TO THE CONTRACT

The parties to the contract shall be the Contractor, whose offer is accepted by the Bureau; and the Bureau.

The person signing the offer or any other document forming the part of Contract on behalf of other persons of a firm shall be deemed to have due authority to bind such person/s or the firm as the case may be, in all matters pertaining to the Contract. If it is found that the person concerned has no such authority, the Bureau may, without prejudice to any other Civil/Criminal remedies, terminate the Contract and hold the signatory and/or the firm liable for all costs and damages for such termination.

3. निष्पादन सुरक्षा /Performance Security

- a. To ensure due performance of the contract, an interest-free Performance Security, @ 5% of the total tender amount **i.e. Rs 1,15,000/- (Rupees One Lakh fifteen Thousand Only)** has to be deposited by the contractor in the form of Bank Guarantee from scheduled bank in favor of ‘Bureau of Indian Standards’ payable at ‘Kolkata’ as per proforma as indicated in **Annexure 1**. The performance security has to be deposited by the contractor within **15 days**

of date of issue of letter of intent conveying the decision of The Bureau to award the work to the contractor, failing which the award of work would be liable for cancellation and EMD will be forfeited.

- b. **The Performance Security shall be valid up to at least 12 months beyond the contract validity period (Including defect liability period) and shall be retained until all disputes, if any, between both the parties have been settled to the entire satisfaction of the Bureau.** In case it is decided to extend the validity of the contract beyond the initial 2 month period, the contractor shall, within fifteen (15) days of extension of contract validity by the Bureau, get the bank guarantee extended up to at least 3 months beyond the extended contract validity period.
- c. Any amount due/recoverable from the Contractor under the terms of this Contractor any other account, may be deducted from the amount of Performance Security. In case, the amount of Performance Security is reduced by reason of any such deduction, the Contractor shall, within fifteen (15) days of receipt of notice of demand from the Bureau, make good the deficit. In case, security is deposited by way of bank guarantee by the Contractor, then any penalty for damages liquidated or un-liquidated or for any breach or failure or determination of Contract, not previously paid to the Bureau, shall immediately on demand be paid by the said bankers to Bureau under and in terms of the said guarantee.
- d. If during the term of this Contract, the Contractor is in default of the due and faithful performance of its obligations under this Contract, or any other outstanding dues by the way of fines, penalties and recovery of any other amounts due from the Contractor, the Bureau shall, without prejudice to its other rights and remedies here under or at the Applicable Law, be entitled to call in, retain and appropriate the Performance Security.
- e. Nothing herein mentioned shall debar the Bureau from recovering from Contractor by a suit or any other means any such losses, damages, costs, charges and expenses as aforesaid, in case the same shall exceed the amount of the Performance Security.
- f. The performance security shall be released by the Bureau after satisfactory completion of defect liability period i.e. after 12 months of date of virtual/provisional completion of the work.

4. अनुबंध दस्तावेज़ /CONTRACT DOCUMENTS:

The several Contract documents forming the Contract shall be taken as mutually explained to one party by the other, but in case of ambiguities or discrepancies the same shall be explained and harmonized by the Competent Authority of the Bureau who shall issue to the Contractor necessary instruction thereon and in such event unless otherwise provided in the Contract the priority of the documents forming the contract shall be as follows:

- i) The Agreement
- ii) Minutes of pre-bid meetings, clarifications
- iii) The Conditions of Contract
- iv) Tender Notice and Tender Document
- v) Letter of Acceptance.

- vi) Any other correspondence exchanged between the parties in connection with the contract.
- vii) The Contractor's Bid

5. कार्य की गुणवत्ता /Quality of Works

All works by the Contractor shall be in conformity with the specifications laid down in the contract, as per technical specifications, tender drawings and bill of quantities as per **Appendices 1 to 3** and if not specified, shall be as per relevant CPWD Specification. If desired by the Bureau the Contractor shall furnish proof to the satisfaction of the Bureau that the works so comply.

6. निरीक्षण / Inspection

The contractor shall provide an inspection report / certificate that the materials/ installations confirm to all specification contained in the Contract. The Bureau will carry out inspection of the works to confirm their conformity to the Contract specification/quality.

The Competent Authority shall be entitled at any time to inspect and examine any works intended to be executed or materials intended to be used / installed either at the factory, godown or at any place(s) where these are lying or from which these are being obtained and the Contractor shall give such facilities as may be required for such inspection and examination.

The Competent Authority shall have full powers to require removal of any or all of the works executed / installed by the Contractor which are not in accordance with the contract specifications or which do not conform in character or quality to the samples approved by the Bureau. In case of default on the part of the Contractor in removing the rejected materials / installations, the Competent Authority of the Bureau shall be at liberty to have them removed by other means. The Competent Authority shall have full powers to procure other proper materials / installations to be substituted for rejected materials / installations and in the event of the Contractor refusing to comply, he may cause the same to be executed by other means. All costs, which may attend upon such removal and / or substitution, shall be borne by the Contractor.

7. वारंटी / Warranty

The Contractor shall be fully responsible for replacement / rectification of defective works at the time of delivery / operation and for those works covered under defect liability period, the contractor shall be responsible during the period of such warranty.

8. विलंब एवं क्षति हेतु हर्जाना /Time for Completion and Damages for delay

The Contractor has to commence work within 15 days of receipt of the work order and complete the work within 02 (Two) Months of commencement of work.

Should the work be not completed to the satisfaction of the Bureau within the stipulated period, the contractor shall be bound to pay to the Bureau a sum calculated at the rate of **1% of the contract amount** per week delay subject to a ceiling of **10% of the contract amount** by way of liquidated damages and not as penalty, during which time the work remains un commenced or unfinished after the expiry of the completion date.

9. जोखिम क्रय /Risk purchase

In case the Contractor fails to execute the works, the Bureau reserves the right to get it executed from alternate sources at the risk, cost and responsibility of the Contractor.

10. जुर्माना की बढत / Imposition of fines/penalty

Suitable fine (to be determined by Competent Authority of the Bureau) will be imposed in case of unsatisfactory quality of work or any damage done to The Bureau's property during the course of work.

11. क्षतिपूर्ति /Indemnity:

The Contractor shall indemnify and keep indemnified the Bureau against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out of or in consequence of the Contract and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation there to under the provisions of various labor laws as amended from time to time. The Contractor shall indemnify, protect and save the Bureau against all claims, losses, costs damages, expenses, action suits and other proceeding, resulting from infringement of any patent, marks, copy rights etc. Such other statutory infringements.

12. अनुबंध की समाप्ति / Termination of Contract

The Bureau shall be at liberty at any time to terminate this Contract on giving 24 hours' notice in writing the Contractor for breach of any of the terms and conditions of this Contract for poor quality of the Works, insufficient service or misconduct of the Contractor as to which the decision of the Bureau shall be final and the Contractor shall not be entitled to any change or compensation by reason thereof.

An event of default on the part of the Contractor, which results from the Contractor being unable to fulfill its Service obligations under the Contract, shall be deemed as a serious default, and is said to have occurred due to any of the following causes:

- (a) In the opinion of the Bureau, the Contractor has repudiated the Contract,
- (b) Without reasonable excuse has failed to commence supply of Works or Services in accordance with this Contract, or failed to complete the supply the Works or provide Services within the time stipulated for completion;
- (c) Despite previous warning from the Bureau, in writing, or otherwise persistently or flagrantly neglecting to comply with any of its obligations under the Contract;
- (d) Serious discrepancy in the quality of the Works is noticed during the inspection.
- (e) Delays in delivery and installation beyond a period of 60 days from the scheduled date of delivery/Installation.
- (f) If the Contractor is in breach of any law or statute governing the supply of Works/Services;
- (g) The Contractor, in the judgment of the Bureau, has engaged in corrupt or fraudulent practices in competing for or in carrying out the Services under the Contract.
- (h) The Contractor enters into voluntary or involuntary bankruptcy, or liquidation;
- (i) The Contractor becomes insolvent;
- (j) A receiver, administrator, trustee or liquidator is appointed over any substantial part of its assets;
- (k) Any act is done or event occurs with respect to the Contractor or its assets, which, under

- any applicable law has substantially similar effect to any of the foregoing acts or events;
- (l) The Contractor (in case of a consortium) has modified the composition of the consortium and / or the responsibility of each member of the consortium without prior approval of the Bureau.

It shall also be lawful for the Bureau to terminate the Agreement at any time if the contract is not being performed as per terms and conditions of the agreement and without being liable for loss or damage which the Contractor may suffer by reason of such termination, by giving the Contractor 15 days' notice in writing by the Bureau for such termination. Any such termination shall be without prejudice to any other right of the Bureau under the Contract.

13. मुख्य खंड लागू करना / Force Majeure Clause:

If at any time during the continuance of this Contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by the reasons of any war, hostility, acts of the public enemy, epidemics, civil commotion, sabotage, fires, floods, explosion, quarantine restrictions, strikes, lockouts or act of God (hereinafter referred to as such acts) provided notice of happening of such event is given by one party to the other within 21 days from the date of occurrence thereof, neither party shall be by reasons of such event, been titled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or the delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Director General of the Bureau as to whether the deliveries have been so resumed or not, shall be final and conclusive, PROVIDED FURTHER that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the contract provided also that the Bureau shall be at liberty to take over from the Contractor at a price to be fixed by Director General, which shall be final, all unused, undamaged and accepted material, bought out components and stores in course of manufacture in the possession of the contractor at the time of such termination or such portion thereof as the Bureau may deem fit excepting such materials, bought out components and stores as the contractor may with the concurrence of the Bureau elect to retain.

14. गोपनीयता / Confidentiality

The Contractor shall not divulge or disclose proprietary knowledge obtained while delivering Works and services under this Contract to any person, without the prior written consent of the Bureau.

15. विज्ञापन/ Publicity

Any publicity by the Contractor in which the name of the Bureau is to be used, should be done only with the explicit written permission of the Bureau.

16. विवाद और विवाचक / Disputes & Arbitration

The Bureau and the Contractor shall make every effort to resolve amicably by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the contract.

If a dispute(s) of any kind whatsoever that cannot be resolved the same shall be referred to the Arbitrator, appointed by the Director General of the Bureau. The provisions of the Indian Arbitration and Conciliation Act, 1996 shall apply.

17. नोटिस भेजने का तरीका / Mode of serving Notice

Communications between Parties which are referred to in the Contract are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

All notices shall be issued by the authorized officer of the Bureau unless otherwise provided in the Contract. In case, the notice is sent by registered post to the last known place or abode or business of the Contractor, it shall be deemed to have been served on the date when in the ordinary course of post these would have been served on or delivered to it.

18. शासी भाषा / Governing language

Governing language for the entire contract and communication there of shall be English only.

19. विधि /Law:

The contract shall be governed and interpreted under Indian Laws.

20. कानूनी न्याय क्षेत्र /Legal Jurisdiction

No suit or other proceedings relating to performance or breach of Contract shall be filed or taken by the Contractor in any Court of law except the competent Courts having jurisdiction within the local limits of Kolkata only.

21. स्टांप ड्यूटी / Stamp duty:

The Contractor shall bear and pay any stamp duty and registration charges in respect of the Contract.

22. अनुबंध का क्षेत्र / Scope of Work

- a) The scope of the works includes civil, electrical, sanitary and plumbing works for **Creation of Infrastructure for Water Testing and Assay Lab** in EROL Lab building, Kolkata as per technical specifications and bill of quantities at **Appendices 1 to 2**.
- b) The Contractor shall carry out and complete the works in every respect in accordance with this contract, read with this tender document, and in accordance with the directions and to the satisfaction of the Bureau. The Bureau may in their absolute discretion from time to time issue further drawings and or written instructions, details, directions and explanations which are hereafter collectively referred to as "The Bureau instructions" in regards to: -
 - i) The variation or modification of the design, quality or quantity of works or the additions or omissions or substitution of any work.
 - ii) Any discrepancy in the drawings or between the Schedule of Quantities and or Drawings and or specifications.
 - iii) The removal from the site of any materials brought thereon by the Contractor and the substitution of other materials therefore.
 - iv) The removal and/or re-execution of any works executed by the Contractor.
 - v) The dismissal from the works of any persons thereupon

- vi) The opening up for inspection of any work covered up.
 - vii) The amending and making good of any defects.
- c) **The scope of the work shall also include relocation of office furniture and equipment and making temporary provisions required during the course of the work. The contractor shall be paid on an actual basis for additional labour (at applicable minimum wage rate) and materials provided for this work against proper bills.**
- d) The Contractor shall forthwith comply with and duly execute any work comprised in such instructions provided always that verbal instructions, and directions explanations given to the Contractor or his foremen upon the works by the Bureau shall if involving a variation be confirmed in writing by the Contractor within seven days and not dissented from in writing within a further period of seven days by the Bureau. Such shall be deemed to be Bureau Instructions within the scope of Contract.

23. ठेकेदार द्वारा सभी जरूरत का सामान प्रदान करना /Contractor to provide everything necessary.

- a) The Contractor shall provide everything necessary for the proper Execution of the work according to the intent and meaning of the Drawings. Priced Schedule of Quantities and Specification taken together whether the same may not be particularly shown or described therein provided that the same can reasonably be inferred there from and if the Contractor finds any discrepancy therein he shall immediately and in writing refer the same to the Bureau whose decision shall be final and binding. Figured dimensions shall be followed in preference to scale.
- b) In case of water from any source other than municipal or ground water provided by the Bureau, the Contractor shall get it tested at his own cost and use it only after specific written permission from the Bureau. The Bureau shall not charge the Contractor for his own unrented ground. The Bureau shall on no account be responsible for the expense incurred by the Contractor for hired ground or water obtained from elsewhere.
- c) The Contractor shall supply, fix and maintain at his cost, during the execution of any works all the necessary centering, scaffolding, staging, planking timbering, strutting, shoring pumping, fencing, boarding watching and lighting by night as well as by day, required not only for the proper execution and protection of the said work, but also for the protection of the public and the safety of any adjacent roads, streets, cellars vaults, pavements, walls houses, buildings and all other erections, matters or things and the Contractor shall take down and remove any or all such centering, scaffolding, staging planking, timbering strutting showing etc., as occasion shall require or when ordered so to do and shall fully reinstate and make good all matters and things disturbed during the execution of the works to the satisfaction of Bureau.

24. प्राधिकारी, नोटिस और पेटेंट/ Authorities, Notices and patents.

- a) The contractor shall conform to the provisions of any Acts of the Legislature relating to the works, and to the Regulations and Bye-laws of any Authority, and of any Water, Lighting and other companies and/or Authorities with whose systems the structure is proposed to be connected, and shall, before making any variations from the drawing or specifications that may be necessitated by so conforming give to the Bureau written notice, specifying the variation proposed to be made and the reason for making it, and apply for instructions thereon.

- b) The contractor shall arrange to give all notice required by the said acts, regulations or byelaws to be given to any authority, and to pay to such authority, or to any public officer all fees that may be properly chargeable in respect of the works, and lodge the receipt with the Bureau.
- c) The contractor shall indemnify the Bureau against all claims in respect of patent rights, and shall define all actions arising from such claims before any such infringement and receive their permission to proceed and shall himself pay all royalties, license fees, damages, costs and charge of all and every sort that may be legally incurred in respect thereof.

25. कार्य को व्यवस्थित करना /Setting out works.

The contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions and alignment of all parts thereof. If at any time any error shall appear during the progress of any part of the work the contractor shall at his own expense rectify such error, called upon, to the satisfaction of the Bureau.

26. ठेकेदार द्वारा तुरंत सभी खराब प्रदार्थ को हटाना /Contractor immediately to remove all offensive matter.

All soil, fifth or other matter of an offensive nature, taken out of any trench sewer, drains, cesspool or other place shall not be deposited on the surface, but shall be at once carted away by the contractor to some tip or place provided by him.

27. विवरण के अनुरूप सामग्री और कारीगर /Material and workmanship to conform to Description.

All materials and workmanship so far as procurable be of the respective kinds described in the tender document and in accordance with the Bureau instructions and the contractor shall upon the request furnish them with all invoices, accounts receipts and other vouchers to prove that the materials comply therewith.

28. एक्सेस/Access.

The Bureau shall at all reasonable times have free access to the work and or to the workshops, factories or other places where materials are being prepared or constructed for the contract and also to any places where the materials are lying or from which they are being obtained and the contractor shall give every facility to Bureau and their representative necessary for inspections and examinations and test of the materials and workmanship. Except the representative of public authorities no person shall be allowed on the work at any time without the written permission of the Bureau.

If any work is to be done at the place other than the site of the works the contractor shall obtain the written permission of the Bureau for doing so.

29. प्रशिक्षित और योग्य कामगारों द्वारा पर्यवेक्षण /Supervision by trained and qualified workmen.

The contractor shall give all necessary personal superintendence during the execution of the work and as long thereafter as the Bureau/authorized representative may consider necessary until the expiration of the 'Defect Liability Period'. The contractor shall also during the whole time the works are in progress employ qualified work persons approved by the Bureau who shall be constantly in attendance at the site/building while the men are at work. Any directions, examinations, instructions or notices given by the Bureau to such trained work person shall be deemed to be given to the contractor. The contractor shall

deploy a suitable number of supervisors as per requirement at site and as per the Bureau's instructions.

30. ब्यूरो के प्राधिकृत अधिकारी /Authorized officer of the Bureau.

The authorized officer of the Bureau as per **Annexure 7** shall have power to give notice to the contractor or to his trained work person of non-approval of any work materials and such work shall be suspended or the use of such materials shall be discontinued until the decision of the Bureau is obtained. The work will from time to time be examined by the Bureau, but such examinations shall not in any way exonerate the contractor from the obligations to remedy any defects, which may be found to exist at any stage of the work or after the same is completed.

31. मजदूर की बर्खास्तगी / Dismissal of workmen.

The contractor shall on the request of the Bureau, immediately dismiss from the works any person employed thereon who may, in their opinion, are deemed unsuitable or incompetent or who may misconduct himself, any such person shall not be again employed or allowed on the works without the permission of Bureau.

32. असाइनमेंट /Assignment.

The whole of the works included in the Contract shall be executed by the contractor and the contractor shall not directly or indirectly transfer, assign or underlet the contract or any part, share or interest therein nor shall be take a new partner without the written consent of the Bureau, and no subletting shall relieve the Contractor from the full and entire responsibility of the Contract or from active superintendence of the work during its progress.

33. परिमाण की अनुसूची /Schedule of quantities.

The Schedules of quantities unless otherwise stated shall be deemed to have been prepared in accordance with the method of measurement mentioned in the Specifications, and shall be considered to be approximate and no liability shall attach to the Bureau for any error that may be discovered therein.

34. कार्यों के क्षेत्र में परिवर्तन / Variation in scope of works:

The contractor may when authorized, and shall when directed, in writing by the Bureau add to, omit from, or vary the works shown upon the Drawings or described in specification or included in the priced, schedule of quantities, but the contractor shall make no additions, omission or variations without such authorization or direction.

No claim for any extra shall be allowed unless it shall have been executed under the provisions of the Clause or by the authority of the Bureau herein mentioned, any such extra is herein referred to as an authorized extra. No variations, i.e., additions, omissions or substitutions, shall vitiate the contract.

If at any time after acceptance of the tender Bureau shall decide to abandon or reduce the scope of work for any reason whatsoever and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or

advantage which he might have derived from the execution of the work. Further, the contractor shall not have any claim for compensation be reason of an alteration having been made in the original specifications, drawings, designs and instructions which shall involve any curtailment of the work as originally contemplated.

35. व्यक्तियों और संपत्ति बीमा के नुकसान के संबंध में /Damage to persons and property insurance in respect of.

The Contractor shall at his own expense carry and maintain insurance with reputed insurance companies to the satisfaction of the Bureau as under:

a) कार्यों का बीमा /Insurance of works:

The Contractor shall take full responsibility for loss, damage and care of plant and works until it is delivered to site, constructed, erected, commissioned and taken over by Bureau. Without limiting such responsibility, the contractor shall in the interest of the work insure the plant and work for their full value plus ten percent until they have been taken over. Such insurance shall cover the equipment and works against loss, damage or destruction by fire, earthquake, theft or any other cause, throughout the duration of the contract period or extended contract period.

b) कर्मचारियों का बीमा /Insurance of employees:

The Contractor shall accept full and exclusive liability for the compliance of all obligations and responsibilities imposed by the Employees State Insurance Act, 1948 and any liability or penalty which may be imposed by the Central, State or Local Authorities due to the reason of violation by the contractor or sub-contractor of the Employees State Insurance Act, 1948. The Contractor shall agree to fulfill the requirement of the Employees State Insurance Corporation and maintain the declaration forms and all such forms, which may be, required in respect of the contractor's, sub-contractor's employees who are employed in the work provided for or those covered by E.S.I.C. from time to time under the agreement. The Bureau shall retain such sum as may be necessary from the total contract value until the contractor shall furnish satisfactory proof that all contributions as required by the Employees State Insurance Act, 1948 have been paid by him.

c) काम करने वालों को मुआवजा /Workmen's Compensation:

Insurance shall be affected for all the Contractor's employees engaged for this contract. The Contractor shall also carry and maintain all other insurance, which may be required under any law or regulations from time to time. He should also carry and maintain any other insurance, which may be required by the Bureau.

d) ट्रांजिट इंश्योरेंस /Transit Insurance:

The cost of transit insurance relating to the items to be transported by the contractor to the site of work shall be borne by the contractor and the quoted price shall be inclusive of this cost.

e) **हानि या क्षति और क्षतिपूर्ति का अनुबंध /Loss or damage and Indemnity Agreement:**

The contractor shall be responsible during the progress of work as well as maintenance period for any liability imposed by law for any damage to work or any part thereof or to any of the material or other things including those of Bureau used in performing the work or for injury to any person or persons or for any property damaged in or outside the site. The contractor shall indemnify and hold the Bureau authorized representatives harmless against all liabilities, claims, loss or injury, including costs, expenses and attorney's fees incurred in the defense of same, arising from any allegation whether groundless or not, of damage or injury to any person or property resulting from the performance of the work or from any material used in the work or from any condition of the work or work site or from any cause whatsoever during the progress and maintenance of the work.

f) **थर्ड पार्टी इश्योरेंस /Third party insurance:**

Before commencing the execution of the works the Contractor, but without limiting his obligations and responsibilities, shall insure against his liability for any material or physical damage, loss or injury which may occur to any property, including that of the Bureau, or to any person, including any representative of the Bureau, by or arising out of the execution of works or in the work being carried out by the owner, by or arising out of the provision of clause 17. Such insurance shall be effected with an insurer and in terms approved by the Bureau.

36. विलंब और अतिरिक्त समय / Delay and Extension of time.

If in the opinion of the Bureau the work be delayed:

- a) By force majeure like
 - i) War, hostilities or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war
 - ii) Rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts
 - iii) Strike, sabotage, unlawful lockout, epidemics, quarantine and plague
 - iv) Earthquake, fire, flood or cyclone, or other natural or physical disaster or
- b) By reason of any exceptionally inclement weather or
- c) By reason of proceeding taken or threatened by or disputes with adjoining or neighboring owners or public authorities of

- d) By delays of other contractor or trade men engaged by the Bureau and the work not referred to in the schedule of quantities and/or specification or
- e) By reasons of Bureau instructions
- f) By reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or
- g) From other cause which the Bureau may certify as beyond the control of the contractor

The Bureau shall make a fair and reasonable extension of time for completion of the contract works.

In case of strike or lockout the contractor shall as soon as may be given written notice thereof to the Bureau, but the contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all that may reasonably be required to the satisfaction of Bureau to proceed with the work.

37. ठेकेदारों द्वारा ब्यूरो के निर्देशों का अनुपालन में असफल होने पर / Failure by contractor to comply with Bureau instructions.

If contractor after receipt of written notice from the Bureau requiring compliance, with such further drawings and/or instructions fails **within seven days** to comply with the same, the Bureau may pay other persons to execute and such work whatsoever as may be necessary to give effect there to and all costs incurred in connection therewith shall be recoverable from the contractor by the Bureau as a debt or may be deducted by him from any moneys due to the contractor.

38. श्रम कानून और संरक्षा विनियम / Labor laws and safety regulations.

(a) Labor Laws:

(i) Laborers below the age of 18 years shall not be employed on the work.

(ii) The contractor shall not pay less than what is specified by the law to laborers engaged by him on the work.

(iii) The contractor shall, at his own expenses, comply with all labor laws and the Bureau shall not be responsible for any recovery/penalty imposed by the respective authorities for violating the labor laws.

(iv) The contractor shall obtain a valid license under the Contract Labor (R&A) Act 1970, and the Contract Labor (Regulations and abolition) Central Rules 1971, before the commencement of the work, and continue to have a valid license until the completion of the work.

(v) The contractor shall furnish to the Bureau, the details of the workers employed on the works. (names, addresses, phone numbers, and copies of valid and updated government issued photo ID document (such as Aadhaar Card)).

(vi) The contractor shall comply with the provisions of the existing rules and regulations relating to labor laws.

(b) Minor Accident on Duty:

For cases of minor accident on duty not covered under compensation by insurance, the contractor shall have to compensate the affected person by reimbursing these medical expenses against submission of actual expenditure document.

(c) Provident Fund:

It shall be solely the Contractor's responsibility to complete all provident fund formalities as per statutory regulations.

(d) Safety code

The contractor shall adhere to safe construction practice and guard against hazardous and unsafe working conditions. While carrying out the work, the contractor should provide for;

- (i) Safety of personnel engaged in the construction.
- (ii) Protection and safety of works and materials during their progress.
- (iii) Sanitary and hygienic conditions of working and living for his workers.

(e) Use of Safety Gadgets:

The Contractor shall have to ensure availability and use of all desired safety gadgets like safety belts, helmets, goggles, hand gloves etc.

(f) Unsafe working condition:

If any activity is found to be progressing without proper and complete safety measures (including use of safety gadgets) being implemented, the contractor may be asked to stop the work unless he fulfills the desired safety norms. Such delays shall not be allowed to be considered for extension in duration of the allotted time period.

(g) First Aid:

The contractor shall provide first aid facilities for his employees and those of his sub-contractors. The requisite first aid box and medicines should always be available at work site.

(h) Contractor's Barricades:

The contractor shall erect and maintain barricades required in connection with his operations to guard or protect:-

- Excavations
- (ii) Hoisting Areas
- (iii) Areas adjudged hazardous by the Bureau/authorized representative.
- (iv) Charged electrical panels.
- (v) Bureaus existing property liable to get damaged by contractor's operation.

(i) Preservation of peace:

The contractor shall take precautions to prevent any riotous or unlawful behavior by his workers, for the preservation of peace and protection of inhabitants and the security of property in the neighborhood of the

work.

(j) Wherever statutory liability is attached to the Bureau with regard to any contribution under the labor laws or other statutory provisions, it shall be the duty of the contractor to reimburse the same to the Bureau or Bureau will be entitled to deduct the said amount from the pending bills.

39. नमूने और परीक्षण /Samples and Testing.

(a) The successful Bidder shall provide sample of all materials for approval, whenever required. The samples shall be submitted for approval well before the commencement of the particular work and give the Bureau/authorized representative a reasonable time for their comments. All materials to be used in execution of project shall be of first class quality; I.S.I. marked (Where applicable) and shall be approved by Bureau before its application.

(b) The contractor shall be paying all testing charges required for testing of materials and samples as and when taken by Bureau. The Contractor shall arrange necessary labor and transportation to facilitate testing of samples/materials. Frequency of testing materials/samples shall be as per related I.S. codes. As mentioned elsewhere in tender documents as well, the Contractor must establish a testing laboratory at site as directed by Owners.

(c) The work should be carried out in truly professional manner, neatly finished with proper line, level and plumb. Cleanliness and finishing of the job is of utmost importance. Hence the job should be done most carefully with best workmanship. For all finishing jobs samples should be approved from the Bureau before completely executing the work.

(d) The Bureau should be immediately informed for any discrepancy in drawings, specifications and instructions in the execution of job at site before actual execution of particular item having discrepancy.

e) Any item found to be having been executed with poor workmanship or materials of inferior quality then the contractor shall have to rectify /reconstruct the work as specified by Bureau. No extra charge will be admissible in such case. If Contractors fails to do so, the Bureau reserves the right to rectify /reconstruct the work through some other agency at the risk and cost of contractor

40. प्रमाणपत्र और भुगतान /Certificate and Payment.

a. Schedule of Rates:

i) The payments to be made to the contractor for various items of works shall be as per the finalized rates in contractor's bid and the rates of extra items finalized from time to time. The basis of calculation of rates of extra items will be as per CPWD's Analysis of Rates applicable.

ii) The rates finalized in the contractor's bid shall remain firm till the completion of the work including extension of time, if any.

b. Measurement:

Joint measurements of the various items of the work shall be taken by the Contractor's authorized representative in presence of the Bureau's authorized representative from time to time for maintaining the records and preparing the bills. If the contractor fails to send his representative then the measurements taken by the Bureau's authorized representative shall be final and no claim shall be entertained in this regard.

c. Mode of Measurement:

All measurements shall be in the metric system and in accordance with Indian Standard Specifications IS: 1200 and in accordance with standard engineering practice. If the contractor has any objection regarding the measurements then he shall inform the Bureau immediately but not later than 3 days from the date of measurement. The decision given by the Bureau shall be final and binding on the contractor.

d. Mobilization Advance:

No Mobilization advance shall be paid to the contractor against the above work.

e. Lump sums in Tender:

No Lump sum item in the contract.

f. Running Account Payments to be regarded as advances:

All running account payments shall be regarded as payments by way of advances against the final payment only and not as payment for work actually done and completed, and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the performance of the contract or nor shall it conclude, determine or affect in any way the powers of the Bureau under these conditions or any of them as to the final settlement of the accounts or otherwise, or in any other way vitiate or affect the contract. The final bill shall be submitted by the contractor within one month from the date of actual completion of the work, to the Bureau, otherwise the Bureau's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on the Contractor. The payment of final bill shall be done as per clause no.41 h (iv).

g. Payment of Contractor's Bills:

I. The payment due to the contractor shall be made only in Indian Currency by Crossed Account Payee Cheques or through electronic transfer system (RTGS). The cheque shall be released only against submission of duly signed and revenue stamped receipt.

ii. The Bureau reserves the right to carry out post payment audit and technical examination of the bills and work executed including all supporting vouchers etc. The Bureau further reserves the right to enforce recovery of over-payment when detected. Similarly, if any under payment is discovered, the amount shall be paid to the contractor.

iii. Wherever any claim for the payment against the contractor arises as per the contract, the same may be deducted from the bill of the contractor or from his Performance Security.

h. बिलिंग और भुगतान की शर्तें /Billing and terms of payment:

i. All Bills shall be raised in the name of “Bureau of Indian Standards, Kolkata (GSTIN 19AAATB0431G2Z7)”.

- ii. The contractor shall submit their correct & complete running bills along with detailed measurement Book as supporting documents as per the agreed schedules and actual measured quantities to the Bureau on monthly basis. The running accounts bills should not be less than Rs. 5.00 lakhs and once in a month. The Bureau after verification of bill as per the Schedule of Item Rates of the order shall forward the bill to The Bureau for release of payment within 30 days.
- iii. **Retention amount:** - 5% of the value of work done from each running bill will be retained as retention amount, which shall be released only after the defect liability period of 12 months of date of virtual/provisional completion of work. No interest shall be paid on the retention amount.
- iv. **Final Bill:** On completion of work and issuance of virtual/provisional completion certificate by the Bureau (see clause 41 (i)) , the contractor shall submit the final bill with total measurement sheet, at one time and the payment shall be released after checking and necessary corrections/ clarifications if any, required.
 - i. **Taxes:** The price quoted shall be **exclusive** of any taxes like GST, service tax, education cess and secondary and higher education cess or any other applicable taxes.
 - v. **TDS:** The payment will be subject to the provisions of the Income Tax Act, 1961 i.e., Tax will be deducted at source with cess/surcharge, at the prevailing rates, from the gross amount of each bill submitted.

i) Virtual/Provisional Completion Certificate & Taking over:

When the Contractor successfully completes the works as per the contract, he shall be eligible to apply for provisional completion certificate in respect of the works. The Bureau shall issue to the Contractor the virtual/provisional completion certificate after verifying from the completion documents submitted by the Firm and satisfying himself that the work has been completed in accordance with the construction drawings and the contract document. The Contractor, after obtaining the provisional completion certificate, is eligible to present the final bill for the work executed by him under the terms of the contract. The work will not be considered as complete and taken over by the Bureau until all the temporary works, labor hutments etc. are removed and the work site cleared to the satisfaction of the Bureau.

If the contractor fails to comply with the requirements of the above on or before the date for the completion of the works, the Bureau may, at the expense of the contractor, remove the tools and plants and surplus materials and dispose of the same and the contractor shall pay the amount of all expenses incurred.

41. ब्यूरो की संपत्ति होने के लिए खाते में लिया गया अनिश्चित सामग्री / Unfixed material when taken into account to be the property of Bureau

When in any certificate of which the contractor has received payment the Bureau have included the value of unfixed materials intended for and/or placed on or adjacent to the works such materials shall become the property of the Bureau for any loss or damage to which the contractor shall be responsible and they shall not be removed from the site except for use upon the works without the written authority of the Bureau.

42. समापन के पश्चात त्रुटि /Defects after completion

The defects, shrinkage, settlements or other faults which may appear within “Defect Liability period” (twelve months after the virtual completion of the works), arising in the opinion of the Bureau from material or workmanship not in accordance with the contract, shall upon the direction in writing of the Bureau and within such reasonable time as shall be specified therein, be amended and made good by the contractor, at his own cost. In case of default the Bureau may employ and pay other persons to amend and make good such defects, shrinkage settlements or other faults, and all damage, loss and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damage, loss and expenses shall be recoverable from him by the Bureau from any moneys due or that may become due to the contractor.

43. विशेष कार्य निर्देश और शर्तें /Special Work Instructions and Conditions:

Special attention of the bidders is invited to clauses v, vi, vii, viii and ix as under and also to Clause 22 (c) of the Conditions of Contract:

- i. A Contractor not meeting requirements as stated above shall inform The Bureau of any changes and deviations in their specifications. The same shall be reviewed by the Bureau and decision taken thereof as to the acceptability of the same.
- ii. Electricity & water supply shall be provided by the Bureau free of cost at one point. The contractor shall make his own arrangement for distribution of the same at various work place. The contractor must consider the same while quoting rates. Physical Sample of samples of material shall be presented by the successful bidder for approval before commencement of work.
- iii. Arrangement of scaffolding, if required will be done by contractor at his own cost.
- iv. Arrangement for protection/barricading of execution area during the execution will be done by contractor at his own cost.
- v. **Bidders may note that above work is to be executed in a 5-storey building which is fully occupied and operational. Execution of work is to be planned in such a way that normal functioning of the office is not affected. Such jobs which may disturb normal office works would be executed after office hours or on closed days. The schedule of working for different areas shall be mutually decided at the time of execution. Nothing extra would be payable on this account.**
- vi. **It shall be ensured by the contractor that electrical, internet, telephone or any other services of BIS buildings are not disrupted due to the subject work. In case the same are disrupted ,the services shall be restored at the earliest by the contractor at his own cost and nothing extra would be payable on this account.**
- vii. **The contractor shall remove malba/waste material & disposed at govt. approved dump yard from the site of work before end of work each day.**
- viii. All machinery and tools required for execution of job would be contractor's responsibility.
- ix. The rate quoted shall be firm throughout the tenure of the contract (including extension of time, if

any, granted) and will not be subject to any fluctuation due to increase in cost of material, labor, sales tax, octroi or any other levy etc., unless specifically provided in these documents.

- x. **IDLE LABOUR:** Whatever the reasons may be, no claim for idle labor, additional establishment cost of hire and labor charges of tools and plants would be entertained under any circumstances.
- xi. The contractor shall arrange for shifting/removing of all furniture/ equipment or covering of items with polythene sheets etc. to undertake the work.
- xii. All bidders are expected to visit and inspect site conditions further to which only they should quote their best prices. For any clarifications on site clearances, material movement, material stores required at site etc., Pl contact: Head, EROL, Bureau of Indian standards, Kolkata

खंड /Section 5

अनुबंध /ANNEXURES

अनुलग्न/Annexure 1

FORM OF BANK GUARANTEE BOND FOR PERFORMANCE SECURITY

1. In consideration of Bureau of Indian Standards (hereinafter called 'The Bureau') having agreed to exempt _____ (hereinafter called "the said Contractor(s)') from the demand under the terms and conditions of an Agreement dated _____ made between _____ and _____ for _____ (hereinafter called "the said Agreement of Performance Security for the due fulfillment by the said Contractor (s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. _____ (Rupees _____ Only) we, _____ (hereinafter referred to as (indicate the name of the bank) 'the bank') at the request of _____ [(Contractor (s) do hereby undertake to pay the Bureau an amount not exceeding Rs. _____ against any loss or demand caused to or suffered or would be caused to or suffered by the Bureau by reason of any breach by the said Contractor (s) of any of the terms or conditions contained in the said Agreement.
2. We _____ do hereby (indicate the name of the bank) undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Bureau of Indian Standards stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Bureau by reason of breach by the said Contractor (s) of any of the terms or conditions contained in the said Agreement or by reasons of the Contractor (s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....
3. We, undertake to pay to the Bureau any money so demanded notwithstanding any dispute or disputes raised by the Contractor (s) / Supplier (s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor (s) / Supplier (s) shall have no claim against us for making such payment.
4. We, _____ further agree that the Guarantee (indicate the name of Bank) herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Bureau under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the authorized officer of the Bureau certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor (s) and accordingly of the said Agreement have been fully and properly carried out by the said Contractor (s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before thewe shall be discharged from all liability under this guarantee thereafter.
5. We further agree with the Bureau that (indicate the name of Bank) the Bureau shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time to performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Bureau against the said Contractor (s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability

by reason of any such variation, or extension being granted to the said Contractor (s) or for any forbearance, act or commission on the part of the Bureau or any indulgence by the Bureau to the said Contractor (s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s) / Supplier (s).

7. We ... lastly undertake not to revoke this (indicate the name of bank) guarantee during its currency except with the previous consent of the Bureau in writing. Dated the..... Day of20
For..... (Indicate the name of bank)

अनुलग्न/Annexure-2

बोलीदाताओं द्वारा प्रस्तुत की जाने वाली विवरण /DETAILS TO BE FURNISHED BY THE BIDDERS

1. फर्म/ कंपनी का नाम/ Name of the Firm / Company:
2. पत्राचार के लिए पता / Address for Communication:
3. दूरभाष न० Telephone No.:
4. फ़ैक्स न०/ Fax No:
5. ईमेल /E-mail:
6. स्वामी/ भागीदार/ निदेशक का विवरण Details of Proprietor/Partner/Director

नाम/Name	पता/Address	अर्हता एवं अनुभव Qualification and Experience

1. वर्ष में इसी तरह के कार्यों में फर्म का कुल अनुभव (निगमन के प्रमाण पत्र की स्कैन की गई प्रति संलग्न करें और पात्रता शर्त क्रम 1 के अनुसार कम से कम 5 वर्ष का अनुभव दर्शाने वाले प्रमुख कार्यों के पूर्णता प्रमाण पत्रों की प्रतियां संलग्न करें) । Total experience of the firm in similar works in years (enclose scanned copy of certificate of incorporation and copies of completion certificates of major works executed showing at least 5 years experience as per eligibility condition no 1 .
2. पिछले तीन वित्तीय वर्षों के दौरान फर्म/कंपनी का वार्षिक टर्नओ(लेखापरीक्षित बैलेंस शीट, पीएल स्टेटमेंट और इनकम टैक्स रिटर्न की चार्टर्ड एकाउंटेंट प्रमाणित प्रतियां की स्कैन प्रतियां संलग्न की जानी है ((Annual Turnover of the Firm / Company during previous three Financial Years (Scanned copies of Chartered Accountant certified copies of audited balance sheets, PL statement and income tax returns to be enclosed):

वित्तीय वर्ष /Financial Year	वार्षिक कारोबार (रु०) Annual Turnover (Rs.)	उपरोक्त विषय से संबंधित संलग्न सीए द्वारा प्रामाणिक प्रतिलिपि (हाँ/ना) CA Certified copies supporting document as above enclosed (Yes/No)
2016-17		
2015-16		
2014-15		

3. पैन नम्बर)पेन कार्ड का स्केन प्रति संलग्न होना चाहिए(PAN Number (Scanned Copy of PAN Card to be enclosed):
4. जीएसटी पंजीकृत नम्बर)जीएसटी पंजीकृत प्रमाणपत्र का स्केन प्रति संलग्न होना चाहिए(GST Registration No. (Scanned Copy of GST Regn certificate to be enclosed):
5. पीएसयू /सरकारी विभाग /लोक निर्माण निकायों /सीपीडब्ल्यूडी के साथ वैध पंजीकरण होना चाहिए)इससे संबंधित दस्तावेजों की स्केन प्रतियां संलग्न होना चाहिए (Details of registration with CPWD/other PWDs/Govt Dept/PSUs such as registration number and validity date (Scanned Copy of registration certificate to be enclosed):
6. ईएसआई और ईपीएफ पंजीकृत संख्या (ईएसआई और ईपीएफ पंजीकृत संख्या का प्रमाण-पत्र का स्केन प्रति संलग्न होना चाहिए(ESI and EPF Registration No. (Scanned copies of ESI and EPF registration certificates to be enclosed)
7. धरोहर राशि जमा ड्राफ्ट की संख्या थिति/बैंक का नाम / (ईएमडी का स्केन प्रति संलग्न) (EMD Draft Number / Date & Name of the Bank (Scanned copy of EMD to be enclosed):

यह प्रमाणित किया जाता है कि उपरोक्त तथ्य मेरी सर्वोत्तम जानकारी एवं विश्वास के अनुसार पूर्ण एवं सही है। यह भी प्रमाणित किया जाता है कि मैंने या है।बंधनों को पढ एवं समझ लिचना की शर्तों एवं निदा सूविहमने नि/
This is to certify that the above facts are true complete and correct to the best of my knowledge and belief. Further, it is certified that I/We have read and understood the terms and conditions of the Tender Notice.

मैं हम/वचनद्ध है कि मैंकार्यता देता ना शर्त एवं स्वीहमारी बि / ए मेरीबंधनोंके लिदा की सभी शर्तों एवं निविहम नि/
ए सहमतबंधनों के पालन के लिदेते हैं। तथा इन शर्तों एवं नि /हूँ/हैं। I/We give an undertaking and give our unconditional and unequivocal acceptance of all terms and conditions of the Tender and agree to abide by these terms and conditions.

अनुलग्नक /Annexure 3

पिछले तीन सेवाओं के/ए गए कार्योंके कि य वर्षों में सदृश प्रकृतित्तीवि (03)विवरण- खंड 1-शर्त (3)1
Details of similar type of works undertaken in the previous seven years (Refer Eligibility conditions -
Section 1 condition 1 (iii))

बोलीदाता का नाम :

Name of the Bidder:

वर्ष/Year	सेवा प्रदान करने क विवरण /Details of work executed	उपभोक्ता/क्रेता का नाम एवं पता, फोन नंबर और ईमेल आईडी /Name Address, phone number and email ID of the buyer/customer	कार्यों का मूल्य Value of the works	टिप्पणी Remarks

नोट/Note: - उपरोक्त जैसे काम के आदेश), पूरा होने के प्रमाण पत्र आदि के साथ दस्तावेजों (संलग्न होना चाहिए। Supporting documents for the above (i.e. copies of work orders, completion certificates etc.) should be enclosed.

अनुलग्नक 4

'तकनीकी बोली' के साथ काली - सूची एवं / या मुकदमों के संबंध में घोषणा

मैं /हम एतद द्वारा घोषणा करता हूँ/ करते हैं कि हमारी फर्म/एजेंसी को केन्द्रीय सरकार / राज्य सरकार के तहत किसी मंत्रालय या केन्द्रीय सरकार के विभाग / राज्य सरकार या पी एस यू या अन्य निकायों द्वारा काली सूची में नहीं डाला गया है। मैं/हम यह भी घोषणा करता हूँ/हैं कि भारत में कहीं पर भी फर्म/कंपनी या इसके स्वामी/भागीदारों/निदेशकों के विरुद्ध कोई आपराधिक मामला दर्ज या लंबित नहीं है।

दिनांक माह 2018

बोलीदाता के हस्ताक्षर.....

बोलीदाता का नाम एवं पता.....

फर्म/ कंपनी कि मुहर

Annexure-4

Declaration regarding black-listing and/or litigations

I/we hereby declare that our firm/agency is not black-listed by any Ministry or Department of Central Government / State Government or PSU or other bodies under the Central Government/ State Government. I/we further declare that no criminal case is registered or pending against the firm/ company or its owner/ partners/ directors anywhere in India.

Date the.....day of 2018

Signature of Bidder :

Name & Address of Bidder :

Seal of the Firm/Company :

अनुलग्न/Annexure 5

वेबसाइट और गैर टैंपरड से निविदा दस्तावेज डाउनलोड करने के लिए घोषणा दस्तावेज

DECLARATION FOR WEBSITE DOWNLOADED & NON TAMPERED TENDER DOCUMENT

I/We Director(s)/Authorized Signatory of M/s -----, hereby declare that I/We

have downloaded the Tender Document from the website <http://www.eprocure.gov.in> or www.bis.gov.in and I/We have not tampered the tender document issued vide TENDER No: _____ dated: _____,

In case at any stage, if it is found that the information given above is false or incorrect, the Bureau shall have the absolute right to take any action as deemed fit without any prior intimation.

अनुलग्न/Annexure 6

निविदा स्वीकृत पत्र/ TENDER ACCEPTANCE LETTER

(कंपनी के लेटरहेड पर देने के लिए/ To be given on Company Letter Head)

दिनांक /Date:

To,

Bureau of Indian Standards

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: _____

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: www.bis.gov.in OR www.eprocure.gov.in

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), appendices (s), schedule(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract , without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

अनुलग्न/Annexure - 7
बोलीदाताओं के लिए सूचना / Information for bidders

क्रम संख्या SNo	विषय/Item	सूचना/Information
1.	निविदा दस्तावेज़ की उपलब्धता / Availability of tender documents	
2.	प्री बीड सम्मेलन/ Pre-bid Conference	
3.	ईएमडी (डिमांड ड्राफ्ट) / Earnest Money deposit (Demand Draft)	
4.	निष्पादन सुरक्षा राशि / Performance Security (Bank Guarantee)	
5.	बोली की वैधता / Validity of Bids	90 दिन/ days
6.	बोली खोलना / Opening of Bids:	
7.	इस निविदा के लिए भारतीय मानक ब्यूरो के तरफ से प्राधिकृत अधिकारी/ Authorized Officer on behalf of the Bureau for this tender/contract	प्रमुख, ईआरओएल, कोलकाता, भा.मा. ब्यूरो Head, ERO Lab Kolkata BIS

अनुलग्न 8 / ANNEXURE 8:

अनुबंध करार / CONTRACT AGREEMENT

This Contract agreement made this _____ day of _____ at _____
Between

_____ (Name and address of Bureau) (hereinafter called “the Bureau”) which term or expression unless excluded by or repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns, **OF THE ONE PART**,

And

_____ (Name and address of contractor) (Hereinafter called “the Contractor” which term or expression unless excluded by or repugnant to the context or meaning thereof, shall be deemed to include its successors and permitted assigns, **OF THE OTHER PART**

And Whereas

The Bureau is desirous that the Contractor executes

_____ (Name and identification number of Contract, Scope of Work, and Time for Completion) (hereinafter called “the Works”) and the Bureau has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a contract amount of Rs..... (In words Rupees....).The contract amount shall be inclusive of all taxes and duties viz and Insurance.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall assume the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Bureau to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Bureau to execute and complete the Works and remedy the defects therein in conformity in all aspects with the provisions of the Contract.
3. The Bureau hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and in the remedying the defects wherein the Contract amount or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Contract Agreement, Viz:
 - a. Work order
 - b. Letter of acceptance
 - c. Notice to proceed with the works
 - d. Contractor’s Bid

- e. Conditions of contract
- f. Specifications of works
- g. Drawings;
- h. Financial bid for each subheads with schedule of rates.
- i. Any other documents listed in the tender document as forming part of the contract.

Order of Precedence

The following order of precedence shall prevail for interpretation of the Contract document read in conjunction with addenda/corrigendum issued, Agreed points after Techno-Commercial discussions, Letter of Acceptance and Contract Agreement.

- a) Description in Bill of Quantities
- b) Conditions of Contract and Annexures hereto
- c) Technical Specification
- d) Tender Drawing

In witness whereof the parties have caused this Agreement to be duly executed the day and year first above written.

The Common Seal of

Was hereunto affixed in the presence of:

Signed Sealed and Delivered by the said

Binding Signature by and on behalf of the Bureau _____

Binding Signature by and on behalf of the Contractor _____

In the presence of

=====

=====

Witness:

Witness:

(Signature)

(Signature)

Name of Witness _____

Name of Witness _____

Address _____

Address _____

अनुलग्न 9 : दस्तावेजों की चेकलिस्ट

Annexure 9: Checklist of documents

1. तकनीकी बोली/ *Technical Bid*:

- a) Scanned copy of Check-List of all the documents enclosed (as per format at **Annexure 10**);
- b) Scanned copy of EMD as indicated in **Clause 6** above. (Scanned copy to be uploaded and original to be submitted physically within date mentioned at **Section I**)
- c) Scanned copy of Details of the firm(s) and scanned copies of supporting documents (**As per Annexure-2**);
- d) Scanned copy of details of similar type of works executed in the last 7 years and scanned copies of supporting documents (**As per Annexure-3**);
- e) Scanned copies of declarations regarding black-listing and/or litigations (**As per Annexure-4**), and Website Downloaded & Non-tampered Tender Document (**As per Annexure 5**)
- f) Scanned copy of Tender Acceptance Letter (**As per Annexure 6**)

12.2 वित्तीय बोली/ *Financial Bid*

Price bid in the form of **BOQ template** BOQ_EROL.xls available along with this tender document on CPPP website <https://eprocure.gov.in/eprocure/app> (Bidders to download this BoQ_EROL.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid)

अनुलग्न-10
Annexure 10

ऑन-लाइन बोली जमा करने के निर्देश
Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

पंजीकरण/REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

निविदा दस्तावेज की खोज /SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

बोलियों की तैयारी/PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

बोली का जमा करना/SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit

encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (ie after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

बोलीदाता हेतु सहायता /ASSISTANCE TO BIDDERS

Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk Nos. 0120-4200462, 0120-4001002

परिशिष्ट/ APPENDIX 1

तकनीकी विनिर्देश / TECHNICAL SPECIFICATIONS

सिविल कार्य/ CIVIL WORK

तकनीकी विनिर्देश / TECHNICAL SPECIFICATION

प्रस्तावना /PREAMBLE

These technical specifications shall be read in conjunction with the various other documents forming the contract, namely Notice Inviting Tender & Instructions to Tenderers, Conditions of Contract, Special Conditions of Contract, Bill of Quantities and other related documents, together with any addendum issued thereto issued.

Absence of terms such as providing, supplying, laying, installing, fixing etc. in the description does not even remotely suggest that the contractor is absolved of such providing, supplying etc. unless an explicit stipulation is made in this contract. The owner shall bear no costs of materials, equipment's duties, taxes, royalties etc.

In addition to the general obligation of the Contractor during defect liability period, the Contractor shall guarantee successful performance of waterproofing treatments for a period of ten years from the certified date of completion of the work. The Bureau shall prescribe the form and the manner of executing such guarantees. The Contractor hereby conforms that there is nothing in the items/specifications (or a shortcoming therein) as will prevent such successful performance.

The work shall be executed through approved specialists experienced in the respective trades.

The classification of various items of work for purpose of measurements and payments shall be as per bills of quantities (BOQ). Except where distinguished by the BOQ, the rates apply to all heights, depths, sizes, shapes and locations. They also cater for all cuts and wastes.

The specifications may have been divided in different sections/sub-head for convenience only. They do not restrict any cross-reference. The Contractor shall take in to account inter-relations between various parts of works/trades. No claim shall be entertained on basis of compartment interpretations.

Any builder's work required as part of electrical and other installation shall be executed by the Contractor as directed under this contract.

The Contractor shall be required to submit and take approval from the Bureau of certain items of work specified in the specifications or as directed from time to time. No extra payment shall be made for the same.

No walls, terraces shall be cut for making any opening after waterproofing has been done without approval of the Bureau. Cutting of waterproofing when authorized by the Bureau in writing shall be done very carefully so that no other portion of the waterproofing is damaged. On completion of the work at such places, the waterproofing

membrane shall be made good and ensured that the opening/cutting is made fully waterproof as per specifications and details of waterproofing approved by the Bureau at no extra cost. No structural member shall be cut or chased without the written permission of the Bureau.

All materials intended to be used at site shall be tested prior to its use in an approved manner. A list of tests including frequency of tests on construction materials as per CPWD. Cost of all such tests and any other tests felt necessary by the Bureau shall be deemed to be included in the price of respective materials quoted by the Contractor. Any defective materials brought to site shall be returned without any extra cost for the same.

Performance tests shall be carried out as the discretion of the Bureau on all/any items, of work as directed by the Bureau. Should any item shall fail to pass the tests, the Contractor shall be given opportunity to take corrective measures and have the same re-tested to the satisfaction of the Bureau, he may at his sole discretion order dismantling of the whole or part of the works done and order the Contractor to reconstruct the same. The cost of all these operations and materials shall be borne by the Contractor without any extra claim.

The Contractor may make a special note of the strictness of the concrete mix to be adopted in items of maximum water-cement ratio, minimum slump, control of total chloride and sulphate contents, use of admixtures etc.

Minimum cement contents are given purely from durability point of view. Larger contents shall have to be provided if demanded by mix design.

Provision of cement slurry to create bond between plain/reinforced concrete surface and subsequent applied finishes (floor, plaster, dado, skirting etc.) shall not be paid extra.

All the water tanks and other liquid retaining concrete structures shall undergo hydro-testing.

Form work for beams of RCC areas shall be designed in such a way that the form work of the adjacent slabs can be removed without disturbing the props/supports of the beams.

The specifications for market rate items to be executed under this contract are enclosed. Items, which are not covered under the specifications, shall be executed as per CPWD specifications and latest relevant IS code.

कार्य का क्षेत्र /SCOPE OF WORK

The work to be carried out under this contract shall consist of various items as per description of works contained in the Bill of Quantities. Any discrepancy between the details given in Bill of Quantities and that provided in Technical Specifications of the corresponding items, the provisions of the Bill of Quantities shall take precedence.

The item rates quoted by the Contractor shall, unless otherwise specified also include compliance with/supply of the following :

- a) General works such as setting out, clearance of site before setting out and clearance of works after completion.
- b) A detailed program for the construction and completion of works (using CPM/PERT techniques) including updating of all such activities on the basis of decisions taken at the periodic site review meetings as directed by the Bureau.
- c) Samples of various materials proposed to be used on the work for conducting tests thereon is required as per the provisions of the contract.
- d) Any other item of work which is not specifically provided in the Bill of Quantities but which is necessary for complying with the provisions of the contract.

सामान्य /GENERAL

The works will be executed as indicated in the nomenclature of each item and technical specifications as given hereunder as made applicable to this contract.

In the absence of any definite provision in the technical specifications contained herein, reference may be made to the latest CPWD Specifications and IS codes, in that order, wherever these are silent, the construction and completion of the works shall conform to sound engineering practice and in case of any dispute arising out of the interpretation of the above, the decision of the Bureau shall be final and binding on the Contractor.

All the codes of practice, standards and specifications applicable shall be the latest editions with up to date correction slips etc. or as directed by the Bureau.

परीक्षण /TESTING

It is made clear that cost of testing, cost of material for testing, all field apparatus required for sampling and testing as per CPWD/IS codes and manpower incident to such testing will be provided along with necessary transport arrangement to and fro to the approved testing agency or laboratory by the Contractor during the construction phase of the work and defect liability period. The expenditure in this regard shall be borne by the Contractor and nothing extra shall be payable by Bureau on this account. Field laboratory with all the required apparatus and staffs shall be established by the Contractor at site of work at his cost for carrying out field tests at stipulated frequencies.

नमूना और परीक्षण /SAMPLING AND TESTING

The Contractor or his accredited representative shall be present during sampling/testing and signify his concurrence for sampling / testing carried out by signing the test records. The Contractor shall be liable of all actions consequent to the test and their results as if he himself attended to the tests. The Contractor is duly advised to be present himself for sampling and testing or in the alternative, have fully qualified duly authorized Bureau for this purpose.

निविदा दस्तावेजों में उठाए गए कोड, मानक और विशिष्टताओं की सामान्य सूची /GENERAL LIST OF CODES, STANDARDS AND SPECIFICATIONS ADOPTED IN THE TENDER DOCUMENTS.

IS Codes and CPWD Specifications have generally been adopted in the tender documents. Use of any other relevant code or standards by the Bureau is solely at his discretion either referred to in the tender documents or not, to achieve the desired quality of work. All the codes practice, standards and specifications applicable shall be the latest edition with all correction slips, etc. or as directed by the Bureau. All the ELECTRICAL supply items with other components and accessories shall be manufactured, fabricated, transported to site supplied, assembled, installed, tested and commissioned in accordance with the latest Indian Electricity Rules and Regulations.

LIST OF APPROVED MAKE OF MATERIAL PREFERRED BY THE BUREAU

SL NO	Description of items	Preferred make
1	Switch/Sockets/GI modular Box	Legrand/ ABB/Hager
2	MCB,MCCB, MCBDB/ MCB enclosure/Isolator	ABB/Legrand/ABB/Hager
3	PVC insulated copper wire FR & FRLS(for wiring)	Polycab/Mescab/RR/KEI
4	Batten angle Holder	Anchor/Havells/SSK
5	Call Bell buzzer	Anchor/Cona/Havells
6	XLPE Cable	Mescab/Polycab/KEI
7	Cable Lugs/Glands	Dowells/Jhonsons/Comet/Polycab
8	Light Fittings	Philips/Havells/Crompton Greaves/ Bajaj
9	Fan & Exhaust fan	Havells/CG/Usha
10	Steel/PVC Conduit	ISI Marked

DRAFT DESIGN OF WINDOW



परिशिष्ट /APPENDIX 2:

बिल ऑफ क्वान्टिटी / (बीओक्यू) BILL OF QUANTITIES (BOQ)

सामग्री /CONTENTS

पेयजल परीक्षण और स्वर्ण आभूषण परीक्षण प्रयोगशाला के लिए बुनियादी ढांचे के निर्माण

**CREATION OF INFRASTRUCTURE FOR WATER TESTING AND ASSAY LABORATORY
AT BIS EASTERN REGIONAL LABORATORY AT KOLKATA**

बिल ऑफ क्वान्टिटी / Bill of Quantities

आइटम संख्या Item No.	आइटम का विवरण/ Description of items	परिमाण/ Quantity	यूनि ट/ Unit	दर (₹)/ Rate	मूल्य (₹) /Amount
1.00	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
a)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.00	cum		
2.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
a)	Cement mortar 1:4 (1 cement :4 coarse sand)	25.00	sqm		
3.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
a)	TMT bars	400.00	Kg		
4.00	Centering and shuttering including strutting, propping etc. and removal of form for :				
a)	Shelves (Cast in situ)	30.00	sqm		
5.00	12 mm cement plaster of mix :				
a)	1:6 (1 cement: 6 fine sand)	25.00	sqm		

6.00	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a)	1:6 (1 cement: 6 fine sand)	100.00	sqm		
7.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
a)	Granite of any colour and shade				
a)i	Area of slab over 0.50 sqm	30.00	sqm		
8.00	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
a)	40 mm thick with 20 mm nominal size stone aggregate	110.00	sqm		
9.00	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
a)	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile	280.00	sqm		
b)	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile	20.00	sqm		

10.00	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers</p> <p>covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:</p>				
a)	12.5 mm thick tapered edge gypsum moisture resistant board	260	sqm		
11.00	<p>Providing and Fixing Aluminium Partition consisting of Aluminium Sections 63.5 MM X 38.1 MM X 2.00 MM thick hollow anodised of Jindal / Hindalco make conforming to IS733 and IS 1285. The anodizing shall be transparent and complying IS 1868 (minimum anodic coating of grade AC 15). The Sections would be installed at an interval of 3'6" vertically and bottom section of size 114.60 x 44.45 x 2mm Aluminium snap bedding for glazing/panelling etc. and 5.5 mm thick float Transparent Glass including providing screwless aluminium glazing clip. Bottom upto 3' Ht Will be provided with 12 MM thick both side</p>	140.00	sqm		

	pre-laminated particle board flat pressed 3 layer conforming to IS12823 Grade I type II of Bhutan / Nepal / Greenlami of interior grade complete with fixing clips, fasteners, filling up of gaps at junction, top, bottom, & sides with required PVC/Nepprene felt etc.. The joints shall be smooth, mitred and jointed with cleat angle etc as per direction of engineer/site Incharge.				
12.00	Providing and Fixing anodised Aluminium Door consisting of Sections 83.5 MM X 44.45 MM X 2.00 MM thick vertical, top and middle horizontal members and bottom members of size 114.60MM X 44.45MM X 2.00MM thickness. Bottom upto 3' Ht will be provided with 12MM thick both side pre-laminated board as mentioned in the item 1 above and rest above provided with 5.5 MM thick transparent float glass. Door provided with 100 MM brass dead lock Godrej make, hydraulic floor spring,(double action) heavy quality ISI marked with SS cover plate 100 MM dia Circular plate type handles (2 nos.) tower bolt of size 250 x10 mm (Barrel Type) including cutting the floor etc complete as directed by engineer/site Incharge. (10 doors)	20.00	sqm		
13.00	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	800.00	sqm		
14.00	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
a)	With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	18.00	sqm		
b)	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	800.00	sqm		
15.00	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
a)	Two coats	800.00	sqm		

16.00	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
a)	Two coats	18.00	sqm		
17.00	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material /malba/rubbish should be disposed outside EROL compound to approved municipal dumping ground or as directed by engineer in charge				
a)	In cement mortar	10.00	cum		
18.00	<p>Removal of Existing MS Windows from EROL on as is where is basis, including first removing of glass panes previously fixed with Putty and subsequent repair of all sills and Jambs with Cement Plaster in 1:4 Cement: Sand ratio, with necessary curing as required along with disposal of all material from site as directed by the Engineer in Charge. The process shall be executed stage wise along with fixing of new Aluminium Windows as per the schedule enclosed along with. At no point of time shall the premises be left open to natural elements. All MS windows removed and sills and jambs repaired shall be covered temporarily with Commercial Grade ply wood from the internal side till the time new window is installed.</p> <p>The salvage cost for the removed windows shall be to the Bidders account. (Rate to be quoted separately)</p>	50.00	sqm		
19.00	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :</p>				

a)	For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	22	sqm		
b)	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	28.00	sqm		
20.00	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.				
a)	With Single toughened glass panes of 6.0 mm thickness of Saint Gobain Manufacture (ET 125)/or its equivalent from reputed manufacturers	50.00	sqm		
21.00	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer in-charge complete.				
a)	355 X 19 mm	44.00	each		
22.00	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.				
a)	Anodized (AC 15) aluminium tubular handle bar	44.00	each		
23.00	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.				
b)	Anodized (AC 15) aluminium	44.00	each		

24.00	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
a)	Upto 5mm depth and 5 mm width	140.00	metre		
25.00	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :				
a)	Size 600x450x200 mm	6.00	each		
26.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
a)	15 mm nominal outer dia Pipes	30.00	metre		
b)	20 mm nominal outer dia Pipes	70.00	metre		
27.00	Providing and fixing P.V.C. waste pipe for sink or wash basin with length not less than 700 mm i/c P.V.C. waste fittings				
a)	Flexible pipe – 40 mm dia	6.00	each		
28.00	Providing and fixing Chlorinated Polyvinyl (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work- Exposed on wall				
	50 mm nominal outer dia Pipes (for waste line)	50.00	metre		

29.00	Making connection of G.I distribution branch with G.I main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. Complete:				
a)	25 to 40 mm nominal bore	4.00	each		
30.00	Providing and fixing C.P. Brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms				
a)	15 mm nominal bore	6.00	each		
31.00	Providing and fixing gun metal gate valve with C.I wheel of approved quality (screwed end):				
	25 mm nominal bore	2.00	each		
32.00	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)				
a)	6 way (4 + 18), Double door	4.00	Each		
b)	8 way (4 + 24), Double door	1.00	Each		
33.00	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single pole	96.00	Each		
34	Supplying installation testing commissioning of modular type phase indicator in existing D.B				
	1 module indicator (Red+Yellow+Green)	5.00	Each		

35.00	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	63 A	10.00	Each		
36.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.				
a)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	150.00	meter		
b)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	800.00	meter		
c)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	200.00	meter		
37.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
a)	Group C	60.00	Point		
38.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 2 Nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	6.00	Each		
39.00	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	10.00	Each		
40.00	Supplying & fixing DP sheet steel enclosure on surface/recess along with 25/32 A,240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	6.00	Each		

41.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a)	5/6 A switch	30.00	Each		
b)	15/16 A switch	30.00	Each		
c)	3 pin 5/6 A socket outlet	30.00	Each		
d)	6 pin 15/16 A socket outlet	30.00	Each		
42.00	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
a)	3 Module (100 mmX75 mm)	40.00	Each		
b)	6 Module (200 mmX75 mm)	10.00	Each		
43.00	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	10.00	Each		
44.00	Supplying and fixing extra down rod of 10 cm length G.I. pipe,15 mm dia, heavy gauge including painting etc. as required. (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	10.00	Each		
45.00	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	10.00	Each		
46.00	Supply of 1400 mm sweep ISI marked ivory colour ceiling fan , minimum air delivery 200 cumtr/min .	10.00	Each		
47.00	S/Installation testing commissioning of wall bracket fan 400 mm sweep complete with speed regulator, swing arrangement, connection, testing ,commissioning etc. as required.	5.00	Each		

48.00	4'X1' Light Fittings				
a)	Supply installation testing commissioning of 4'x1' suspended 30 to 36 watt LED luminaire with die cast aluminium/powder coated CRCA steel body /housing, polycarbonate UV stabilized louver/defuser, electronics constant current driver with inbuilt power factor correction,CRI > 80, THD < 10%, IP-20 protected, power factor > 0.90, colour temp. 5500°-6000°K , luminous efficiency > 100 lumen/ watt, suitable for operation in 1-ph, 50 Hz, ac supply etc. complete with hanging arrangement as required.	10.00	Set		
49.00	2'X2' Light Fittings				
b)	Supply installation testing commissioning of 2'x2' recessed mounted 30 to 36 watt LED luminaire with die cast aluminium/powder coated CRCA steel body /housing, polycarbonate UV stabilized louver/defuser, electronics constant current driver with inbuilt power factor correction,CRI > 80, THD < 10%, IP-20 protected, power factor > 0.90, colour temp. 5500°-6000°K , luminous efficiency > 100 lumen/ watt, suitable for operation in 1-ph, 50 Hz, ac supply etc. complete with hanging arrangement as required.	30.00	Set		
50.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required.				
a)	Upto 35 sq. mm (clamped with 1mm thick saddle)	60.00	meter		
51.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.				
a)	3½ X 25 sq. mm (28mm)	12.00	Each		
52.00	Supply of XLPE Insulated, PVC sheathed aluminium conductor 1.1 KV grade steel armoured cable confirming to IS 7098(Part-I) as amended up to date of following size .				
a)	4 X 25 sq. mm (28mm)	65.00	meter		

53.00	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	130.00	meter		
54.00	Less for weight of windows (-)	2000.00	kg		
	Total Amount (in figures & Words)				
	Taxes (Total)				
	Total bid amount (in figures and words) inclusive of taxes				