

PART 1-TECHNICAL BID

प्रस्तुतकर्ता/ Submitted By M/s. _____

सेन्ट्रल बैंक ऑफ़ इंडिया/CENTRAL BANK OF INDIA

हार्डवेयर पार्क, इंडस्ट्री एरिआ बेंगलुरु के प्लॉट नं. 12, 1ए2/ सर्वे 176 पर प्रस्तावित दीवार, सुरक्षा कक्ष तथा प्रवेश द्वारा का निर्माण/ **Proposed Boundary wall, Security Room and Entrance Gate at plot no 1A2/Survey 176 at Hardware Park Industrial area-Bengaluru .**

निविदा प्रस्तुत करने की अंतिम तारीख/Last date of submission of tender : दिनांक 04.03.2017 को सायं 3.00 बजे/3.00 p.m. On 04-03-2017.

निविदा खोलने की तारीख/Date of opening of the Tender : दिनांक 04.03.2017 को सायं 3.30 बजे/ 3.30 p.m. On 04-03-2017

Validity of Tender from the : 120 दिन/ days

Date of opening /खुलने की दिनांक से

निविदा की वैधता

प्रस्तुतकर्ता/ Submitted by :

कार्य आदेश के दिन कार्य प्रारंभ करने का समय

Time of commencement from the : कार्य आदेश के दिनांक से 07 दिन
07days from the date of work order

कार्य पूर्ण करने का निर्धारित समय/ Stipulated time of Completion : कार्य आदेश के दिन से 60 दिन/
Within 60 days from the day of Work order.

उपलब्ध कराए जाने वाले दस्तावेज/Documents to be provided : जैसा कि निविदा आमंत्रण में सूचित किया गया है/ As Stated in Notice Inviting Tender.

बयाना जमा राशि/Earnest Money Deposit : रु.. 18,000.00 (रु अठारह हजार मात्र/ Rs. Eighteen Thousand only)

निविदा शुल्क/ Tender Fees: Rs.1000(रु. एक हजार मात्र/ Rs One Thousand)
(गैर वापसी योग्य /Nonrefundable).

निविदा-सूचना/Tender Notice

सेन्ट्रल बैंक ऑफ़ इंडिया, एतदद्वारा संलग्न मात्रा-सूची, विशिष्टताएं, सामग्री सूची एवं इस सूचना में दिए नियम एवं शर्तों के अनुसार उपरोक्त कार्य करने के लिए सीलबंद निविदाएं आमंत्रित करता है/ Central Bank of India, hereby invite sealed tenders for the above work as per the enclosed schedule of quantities, specification, list of materials and as per the terms and conditions spelt out in this notice:

ए/आ. निविदा की प्रस्तुति/ **Submission of Tender** :

निविदाएं सील कवर में जिसके उपर हार्डवेयर पार्क, इंडस्ट्री एरिआ बेंगलुरु के प्लॉट नं. 12, 1ए2/ सर्वे 176 प्रस्तावित दीवार, सुरक्षा कक्ष तथा प्रवेश द्वारा का निर्माण अंकित होना चाहिए. साथ ही इस नोटिस के अग्रेशन पत्र की संदर्भ संख्या का उल्लेख करते हुए कवर निविदा के कवर पृष्ठ पर उल्लेख किए अनुसार कार्यालय को प्राप्त होना चाहिए/ Tenders in sealed covers super scribing “**Construction of Proposed Boundary wall ,Security Room and Entrance Gate at plot no 1A2/Survey 176 at Hardware Park Industrial area-Bengaluru “at the office premises as mentioned on the cover page (page no.1) of the Tender** and quoting the reference number of the letter forwarding this notice should reach the office of as mentioned on the cover page of the tender.

a) निविदा दस्तावेज में सभी प्रविष्टियां अनिवार्यतः अंग्रेजी में की जाएं. यह हाथ से स्याही द्वारा लिखी गई हो एवं

टंकित न हो/ all entries in Tender document must be made in ENGLISH. It must be hand written in INK and must NOT be typed.

नोट/ NOTE :

1. ठेकेदार/निविदाकार से तात्पर्य च्यक्ति/फर्म/एजेंसी जो कि ठेका बोली में भाग ले रही है जिसमें कि उनके विधिक प्रतिनिधि, उत्तराधिकारी, फर्म के किरायेदार/ समनुदेशिति भी शामिल हैं/ *The contractor / tenderer means the person / the firm / the agency who is participating in the contract bid which shall also include their Legal Representatives, Successors, Hirers and Assignee of the firm.*
2. परामर्शदाता का तात्पर्य सेन्ट्रल बैंक ऑफ़ इंडिया, हैदराबाद अंचल का वास्तुविद प्रभाग जिसका कार्यालय आंचलिक कार्यालय, बैंक स्ट्रीट, कोटि, हैदराबाद-500095 के प्रथम तल पर है/ *Consultant means Central Bank of India Architecture Division- Hyderabad Zone. Having their office at first floor Zonal office Bank Street Koti, Hyderabad-500095.*

प्रभारी इंजीनियर से तात्पर्य /सेन्ट्रल बैंक ऑफ़ इंडिया द्वारा नियुक्त इंजीनियर/परामर्शदाता/ विशेषज्ञ एजेंसी/व्यक्ति जो कि कार्य का सुपरविज़न करेंगे एवं बिल प्रमाणित करेंगे और वे पूरे प्रोजेक्ट के लिए

जिम्मेवार होंगे/ *Engineer-in-charge means, the Engineer/ advisor/ consultants/ specialized agency/ person appointed by the Central Bank of India who will be supervising the work, certifying the bill and who will also be responsible for the entire project.*

4. नियोक्ता से तात्पर्य सेन्ट्रल बैंक ऑफ़ इंडिया जिसका कि प्रधान कार्यालय चंदरमुखी, नरीमन पॉइंट, मुंबई - 400021 एवं आंचलिक कार्यालय बैंक स्ट्रीट, कोटि, हैदराबाद में है अथवा उसका कोई भी कर्मचारी, उनकी ओर से प्राधिकृत प्रतिनिधि है/ *Employer means Central Bank of India having their head office at Chandermukhi, Nariman Point, Mumbai – 400 021 and Zonal Office at Bank Street Koti, Hyderabad or any of its employees, representative authorized on their behalf.*
- a) केवल बैंक द्वारा जारी निविदा फॉर्म का उपयोग किया जाए/ Only the Tender form issued by Bank should be used.
- b) जहां तक संभव हो निविदा दस्तावेज में सुधार को टाला जाए. तथापि यदि कोई सुधार किया जाता है तो उसे निविदा पर हस्ताक्षर करने वाले व्यक्ति द्वारा प्रमाणित किया जाए. निविदा दस्तावेज में ओवर राइटिंग अनुमत नहीं है/As far as possible corrections in the tender documents to be avoided. However in case of any corrections, the same should be authenticated by the person who is signing the Tender. Over writing on the tender document is not permitted.
- c) निविदाकार द्वारा निविदा आधिकारिक पत्र शीर्ष पर ही अग्रेषित किया जाए/The Tender should be forwarded in the official letterhead of the tenderer.
5. पूर्ण निविदा दस्तावेज (निविदा की शर्तों, विशिष्टताओं, मूल्य, बिल ऑफ क्वांटिटिज़ इत्यादि के लिए विधिवत रूप से हस्ताक्षरित) जैसा कि निविदा आमंत्रण-सूचना में उल्लेख किया गया है को संबोधित हो और कार्यालय में निर्धारित की गई दिनांक अथवा उसके पूर्व जैसा कि निविदा दस्तावेज में दिया गया है पहुंचना चाहिए/ The complete Tender documents (duly signed tender conditions, specification, priced bill of quantities etc.) should be addressed to “**as mentioned in the** Notice inviting tender ” and reach the office on or before date fixed and notified in the tender document.
6. नियत दिनांक एवं निर्धारित समय के उपरांत निविदा स्वीकार नहीं की जाएंगी. तथापि यदि सेन्ट्रल बैंक ऑफ़ इंडिया समय सीमा बढ़ाना चाहता है तो वह नियत दिनांक एवं निर्धारित समय के पूर्व अथवा नियत दिनांक एवं समय के पश्चात सभी निविदाकारों को सूचित कर ऐसा कर सकता है/ The Tenders will not be received after the due date and the time fixed. However, if the CBI desires to Extend the time limit, it will do so by informing all the tenderers either before the due date and time fixed for submission or after the due date and time.
7. यदि निविदा प्रस्तुत/खोलने की दिनांक को राज्य(जहां निविदा प्रस्तुत की जानी है) में सार्वजनिक अवकाश है तो समय सीमा स्वतः ही अगले कार्य दिवस को उसी समय पर परिवर्तित हो जाएगी/In case the due date for submission / opening of the tender is declared as a public holiday in the State, (where the tender document is to be submitted), the time limit will be automatically changed to the next working day at the same time.

8. निविदाकार के निविदा प्रेषण के पश्चात निविदा के विलंब से प्राप्त अथवा खोने अथवा प्राप्त न होने के लिए बैंक जिम्मेदारी नहीं है/Bank will take no responsibility for delay or loss or non-receipt of tenders after dispatch, by the tenderer.
9. निविदाकारों को परामर्श दिया जाता है कि वे पूरी की गई निविदा सीधे उप क्षेत्रीय प्रबंधक, क्षेत्रीय कार्यालय, बेंगलुरु को दें अथवा यह सुनिश्चित करें निविदा प्रस्तुति हेतु निर्धारित नियत दिनांक के पूर्व कार्यालय में प्राप्त हो/ The tenderers are advised to hand over the duly filled tender directly to the office of the Deputy Regional Manager ,Regional Office ,Bengaluru or ensure that the tender reaches the office before the due date fixed for submission of the tender.
10. निविदाकारों से अनुरोध कि दर कोट करने के पूर्व वे साइट का निरीक्षण कर साइट की स्थिति, नियम एवं विनियम से अपने को परिचित कर लें. इस संबंध में बैंक के प्राधिकारियों से व्यवस्था करने के लिए संपर्क किया जा सकता है/The tenderers are requested to inspect the site of work and acquaint about the site conditions and rules and regulations before quoting the rates. For this, the officials of bank may be contacted to make the arrangements.
11. दर में सामग्री की लागत ,लेबर, परिवहन, बिक्री कर, सीमा शुल्क, उपकर, कार्य ठेके पर बिक्री कर वेट अथवा कोई अन्य व्यय जो कि कार्य के दौरान किया जाएगा शामिल होना चाहिए/The rate quoted should be inclusive of the cost of materials, labour, transportation, Sales Tax, Excise Duty, Cess, Sales Tax on works contract, VAT or any other expenditure that may be incurred during the course of work.
12. निविदा सूचना में दिए गए नियमों एवं शर्तों के अनुरूप निविदा प्रस्तुत की जानी चाहिए. निविदाकार को यिम एवं शर्तों, ड्राइंग, विशिष्टताओं इत्यादि में परिवर्तन नहीं करना चाहिए. यदि कोई परिवर्तन किया जाता है तो निविदा को अवैद्य/शून्य माना जाएगा/The tender should be submitted strictly as per the terms & conditions spelt out in the tender notice. The tenderer should not make any alteration in the terms & conditions, drawings, specifications etc. In case of any alteration the tender may be considered as invalid/void.

B. निविदा का खोला जाना/ Opening of the Tender:

1. सीलबंद निविदाएं कवर पेज पर विनिर्दिष्टानुसार दिवस को प्राधिकृत अधिकारियों की उपस्थिति में खोली जाएंगी/
The sealed tenders will be opened in the presence of the authorized official of the Bank on the day as specified on the cover page.
2. इच्छुक निविदाकार जो निविदा खोले जाने के समय उपस्थित रहना चाहते हैं पृष्ठ क्रमांक 1 पर दिए गए कार्यालय के पते पर निविदा खोले जाने के लिए निर्धारित दिन उपस्थित रह सकते हैं/ Intending tenderers who wish to be present at the time of opening of tenders may be present at the office address as mentioned in page no. 1 on the day fixed for opening of the tender.

C. निविदा स्वीकारना/Acceptance of the tender :

1. ठेकेदार द्वारा दी गई दर कवर पृष्ठ पर The rates quoted by the contractors should be valid as specified in the cover page.
2. बैंक के पास किसी/सभी निविदाओं को पूरा अथवा उसके भाग को सरसरी तौर पर स्वीकारने/रद्द करने का अधिकार सुरक्षित है एवं बैंक न्यूनतम अथवा अन्य निविदा स्वीकारने के लिए बाध्य नहीं है/Bank reserves the right to accept / reject summarily any / all tenders in whole or part thereof and also does not bind itself to accept the lowest or any other tender.
3. बैंक न्यूनतम निविदाकार से दर सहित शर्तों पर समझौता वार्ता कर सकता है. बैंक द्वारा समझौता वार्ता मूल्य अनुबंध मूल्य होगा एवं कार्य-आदेश कथित राशि के लिए दिया जाएगा/It will be open to Bank to negotiate the terms including the rates quoted with the lowest tenderer. The negotiated price by Bank will be the contract value and work order will be placed for the said amount.
4. कार्य के लिए निविदा स्वीकारने की अवधि कवर पृष्ठ पर विनिर्दिष्टानुसार अथवा आपसी सहमति से विस्तारित अवधि होगी और निविदाकार इस अवधि के दौरान निविदा को रद्द/वापिस नहीं ले सकेगा/ The tenders for the work shall remain for acceptance for a period as specified on the cover page or the period that may be extended by mutual agreement and the tenderers shall not cancel / withdraw the tenders during that period.
5. प्रत्येक निविदाकार को निविदा फॉर्म के कवर पृष्ठ(पृष्ठ संख्या-1) में उल्लेखानुसार बयाना जमा राशि सेन्ट्रल बैंक ऑफ़ इंडिया के पक्ष में आहरित मांग ड्राफ्ट के रूप में जो बेंगलुरु पर देय एवं किसी भी राष्ट्रीयकृत बैंक पर आहरित हो के माध्यम से अनिवार्यतः जमा करनी होगी (एवं इस पर कोई ब्याज नहीं दिया जाएगा). मांग ड्राफ्ट अलग लिफाफे में रखा जाए और निविदा दस्तावेज और निविदा पूरी तरह से भरकर निविदा में

विवरण विधिवत रूप से अंकित किए जाएं. कोई भी निविदा बिना बयाना जमा राशि के स्वीकार नहीं की जाएगी बयाना जमा राशि पर किसी भी प्रकार का ब्याज अदा नहीं किया जाएगा. ठेकेदार द्वारा कार्य शुरू न करने/प्रोजेक्ट के कार्य-निष्पादन में विलंब के लिए कथित राशि जब्त कर ली जाएगी. Each tenderer

must submit an Earnest Money Deposit as mentioned on the cover page (page no .1) of the tender in the form of a **Demand Draft only** in favour of “Central Bank of India” payable at Bengaluru drawn on any **Nationalised bank** (and which shall not bear any interest). **The Demand Draft should be placed in a separate envelope** and the tender document duly filled shall along with the tender duly marked with details. **No tender will be accepted without EMD in separate cover.** The EMD will not carry any interest. In case of failure on the part of the contractor for commencement of work / delay in execution of the project, the said amount will be forfeited.

6. असफल निविदाकारों को बयाना जमा राशि निविदा रद्द करने की सूचना देने के बाद वापिस की जाएगी. सफल निविदाकारों की बयाना जमा राशि अनुबंध के निष्पादन के लिए बतौर प्रतिभूति में परिवर्तित हो जाएगी/ Earnest Money will be returned to the unsuccessful tenderer after the intimation of rejection of the tender is sent. The Earnest Money will be retained in the case of the successful tenderer and will get converted as a part of Security Deposit for the due performance of the contract.
7. बयाना जमा राशि जब्त कर ली जाएगी यदि ठेकेदार/ **Earnest Money Deposit will be forfeited, if the contractor:**
 - a. वैद्यता अवधि में निविदा वापिस लेता है अथवा पूर्व में कोट की गई दरों में वृद्धि करता है/Revokes the tender or increases the earlier quoted rates within the validity period.
 - b. निविदा स्वीकारे जाने के पश्चात मना, हस्ताक्षर एवं निष्पादन में विलंब करता है/ Refuse, delay to sign and execute the contract after tender is accepted.
 - c. इच्छा पत्र/ कार्य आदेश में विनिर्दिष्ट समय अथवा ऐसे पत्र कके जारी होने के सात दिन जो भी बाद में हो कार्य आरंभ नहीं करता है/ Does not commence the work within the time specified in the letter of intent/work order or 7 days from the issue of such letter, whichever is later.
8. निविदा रद्द की जा सकती हैं/ **the tenders will be rejected;**
 - a. यदि ठेकेदार निविदा की कोई मद अथवा उप मद कोट नहीं करता है/ If the contractor does not quote any of the item / sub-item in the tender

- b. यदि ठेकेदार कोट करते समय दर में सुधार करता है एवं कार्य की उस विशेष मद पर विधिवत रूप से मोहर लगाकर प्रति हस्ताक्षर नहीं करता है/If the contractors makes the correction in the rate while quoting and not countersigned duly stamped at that particular item of work
9. निविदा जो कि निर्धारित शर्तों में से एक भी शर्त पूरा नहीं करती है, स्वीकार नहीं की जाएगी/the tenders which does not fulfill any of the prescribed conditions will not be accepted.
10. निविदा के संबंध में कैन्वासिंग वर्जित है/ Canvassing in connection with the tender is strictly prohibited.

D. कार्य का निष्पादन/Execution of Work :

- कार्य कवर पृष्ठ संख्या-1 में विनिर्दिष्ट अवधि के अंदर कार्य-आदेश की प्राप्ति की दिनांक से अथवा कार्य-आदेश में दी गई दिनांक से आरंभ किया जाना चाहिए. तदनुसार कार्य करने की दिनांक उस दिन से जो कवर पृष्ठ पर निर्धारित किया गया से गणना की जाएगी/The work should commence **within the period specified on the cover page no.1** from the date of the receipt of work order or the date that may be indicated in the work order. Accordingly, date of commencement of the work will be reckoned from the day as specified in the cover page.
- कार्य कवर पृष्ठ पर विनिर्दिष्टानुसार पूर्ण किया जाना चाहिए जिसकी गणना कार्य आरंभ होने की दिनांक अथवा कार्य-आदेश में इंगित समय सीमा के अनुसार होगी/The **work should be completed as specified on the cover page calculated** from the date of commencement of the work or within the time limit that may be indicated in the work order.
- जैसा कि निविदा में उल्लेख किया गया है कार्य निष्पादन के लिए अनुमत समय अनुबंध का मूल है/Time allowed for execution of work, as specified in tender, shall be the essence of the contract.
- यदि कार्य आदेश में उल्लेखानुसार निविदाकार कार्य आरंभ करने में चूक करता है एवं यह पाया जाता है कि निर्धारित दिनांक का पालन नहीं किया जा रहा है तो बैंक को अन्य किसी अधिकार अथवा उपलब्ध उपाय पर प्रतिकूल प्रभाव डाले बिना अनुबंध को समाप्त/निरस्त करने का अधिकार होगा If the tenderer commits default in commencing the work, as required by the work order and found that the date stipulated cannot be adhered to, Bank shall be entitled without prejudice to any other rights or remedies available may terminate / rescind the contract.
- यदि निविदाकार कार्य आदेश में उल्लिखित निर्धारित समय के अंदर कार्य पूरा करने में असफल रहता है तो बैंक को अन्य उपलब्ध उपायों पर प्रतिकूल प्रभाव डाले बिना समग्र सीमा 10%, के अधीन कुल अनुबंध राशि के 1 प्रतिशत की दर से विलंब के लिए प्रति सप्ताह दंड लगाया जाएगा. निविदाकार को बैंक को ऐसी राशि का भी

भुगतान करना होगा जो देय राशि से कम है, यदि कोई है/If the tenderer fails to carry out the work within the stipulated time mentioned in the work order, the Bank will have liberty **to impose penalty @ 1% of the total contract value per week** of delay subject to an overall limit of 10%, without prejudice to other remedies available. The tenderer has to pay to Bank such amount that may fall short over the amount due to them, if any.

6. तथापि, बैंक यदि इस बात सहमत होता है कि कार्य में विलंब निविदाकार द्वारा सृजित परिस्थिति के बाहर के थे, वे निविदाकार के अनुरोध एवं तकनीकी टीम की अनुशंसा पर इस अवधि का विस्तार उस सीमा तक कर सकते हैं जिसे कि वह उचित समझते हैं. ऐसे मामले में निर्णीत हर्जाना शेष अवधि यदि कोई है के लिए निविदा की शर्तों के अनुसार होगा./However, if Bank is convinced that the delay in execution of the work is beyond the circumstances created by the tenderer, they may award extension of the same to the extent they feel justified based on the request of the tenderer and recommendations of Technical team. In such case liquidated damages will be levied for the balance period, if any as provided as per the condition of the tender.
7. यदि निविदाकार कवर पृष्ठ पर विनिर्दिष्टानुसार दिनों में कार्य प्रारंभ करने की सूचना प्राप्ति की दिनांक से कार्य आरंभ करने / अथवा कार्य निष्पादन में प्रगति दिखाने में असफल रहता है एवं बैंक ऐसा समझता है कि कार्य निर्धारित समय में पूरा नहीं होगा, बैंक के पास तकनीकी टीम की अनुशंसा पर पर तीन दिन के नोटिस पर अनुबंध को समाप्त करने का विवेकाधिकार होगा एवं बैंक का निर्णय अंतिम एवं बाध्यकारी होगा. अनुबंध समाप्त करने की दशा में ठेकेदार को यदि कोई राशि देय है वह प्रोजेक्ट पूरा होने के बाद जारी की जाएगी. शेष कार्य को पूरा करने में व्यय की गई राशि ठेकेदार से वसूल की जाएगी. बैंक के पास पूरा विवेकाधिकार होगा कि वह विनिर्दिष्टानुसार किसी भी दर पर किसी भी एजेंसी से कार्य कराए/If the tenderer fails to commence the work within the days as specified on the cover page from the date of receipt of intimation for commencement of the work and / or the contractor fails to show progress in execution of work and Bank feels the work cannot be completed within the stipulated time, Bank will have the right to terminate the contract on the recommendations of Technical Team by **giving three days' notice** to the contractor, at the full discretion of Bank and the decision of Bank will be final and binding. In case of termination of the contract, the payment if any, due to the contractor will be released only on completion of the entire project. The amount that may be
8. spent for completion of the balance work will be recovered from the contractor. It will be the full discretion of Bank to carry out the balance work through any agency at any rate as per the specification.

8. सभी सामग्री एवं कर्म-कौशल शिड्यूल ऑफ़ क्वांटिटिज़:विशिष्टताएँ एवं संबंधित बीआईएस कोड एवं प्रभारी इंजीनियर के दिशा निर्देश के अनुसार होगा/**All the materials and workmanship shall be of the kind described in the schedule of quantities / specifications and in accordance with relevant BIS codes and as per directions of the Engineer-in-charge.**
9. निविदाकार को यदि प्रभारी इंजीनियर चाहते हैं तो किसी भी सामग्री की वास्तविक खरीद के सत्यापन के लिए वाउचर्स/चालान की फोटो/मूल प्रति प्रस्तुत करनी होगी/The tenderers shall submit photocopies / originals of vouchers / challans etc., for verification of actual purchases of any material, if so, desired by the Engineer-in-charge.
- निविदाकार को प्रभारी इंजीनियर के चाहने पर साइट पर लाई गई सभी सामग्री की जांच अपनी लागत पर किसी भी संस्थान/प्रयोगशाला/ कार्य की साइट पर परीक्षण कराना होगा. सामग्री के इस प्रकार के परीक्षण के लिए कोई भी अतिरिक्त दावे पर विचार नहीं किया जाएगा/The tenderer shall have to carry out testing of all materials brought on site at their own cost in any institute / laboratory / site of works as desired by the Engineer-in-charge. No extra claim will be entertained for such testing of materials.
10. निविदाकार साइट पर किसी भी समय किसी भी कारण से किसी भी तरह का उपद्रव अनुमत/ अथवा ऐसा कार्य नहीं करेगा जिससे कि साइट पर अथवा साइट के आस पास रहने वालों की किसी भी प्रकार की शांति भंग हो अथवा उन्हें असुविधा हो/The tenderer shall not at any time do, cause or permit any nuisance on the site/ do anything which shall cause unnecessary disturbances or inconvenience to the occupants / visitors at site or near the site of work.
11. बिल ऑफ़ क्वांटिटिज़ में दर्शाई गई क्वांटिटिज़ अनुमानित है एवं साइट की परिस्थिति/आवश्यकतानुसार क्वांटिटि में परिवर्तन हो सकता है. कोट की गई दर कार्य की परिवर्तित क्वांटिटि के लिए भी पक्की होनी चाहिए/The quantities indicated in the bill of quantities are approximate and the quantities may vary as per the site conditions / requirements. The rate quoted should be firm for the deviated quantities of work also.
12. निविदाकार के मजदूरों को कार्य की साइट पर रहना अनुमत नहीं किया जाएगा/ The tenderer's workers will not be allowed to stay at the work site.
13. विदाकार अथवा उसके मजदूर परिसर में उपलब्ध सामान्य सुविधाएं जैसे पीने का पानी, प्रसाधन गृह आदि का उपयोग कर सकते हैं. तथापि यह सुनिश्चित किया जाना चाहिए कि उन्हें स्वास्थ्यकर स्थिति में रखा जाना सुनिश्चित किया जाए/The tenderer or his workers can use the common facilities such as drinking water, toilet etc., Provided at the premises. However, it should be ensured that the same should be kept in hygienic condition.

14. कार्य निष्पादन के लिए विद्युत एवं पानी बैंक द्वारा ठेकेदार को निशुल्क उपलब्ध कराया जाएगा. साइट पर मजदूरों के लिए पीने के पानी की सुविधा ठेकेदार द्वारा आपनी लागत पर उपलब्ध कराई जाएगी/The water and electricity for execution of work shall be made available to contractor by Bank free of cost. The drinking water for labor on site shall be arranged by the contractor at his own cost.
15. विद्यमान संरचना में किसी भी प्रकार के नुकसान को निविदाकार द्वारा प्रभारी इंजीनियर की संतुष्टि तक निशुल्क ठीक कराया जाएगा/**In case of any damage to the existing structure, the tenderer should rectify the same free of cost up to the satisfaction of the Engineer-in Charge.**
16. बैंक के पास उचित सीमा तक डिजाइन में परिवर्तन के लिए स्वतंत्र रहेगा. इस प्रकार के परिवर्तन के लिए कोई भी अतिरिक्त प्रभार अदा नहीं किया जाएगा/**Bank will have the liberty to modify the design to a reasonable limit. No extra charges will be paid for execution after such modification.**
17. निविदाकार कार्य पूरा होने तक साइट की सुरक्षा करेगा एवं बिना किसी नुकसान, चोरी, स्क्रैच आदि के सौंपेगा. / The tenderer should protect the site till the works completed and handed over the same without any damage, theft, scratches, etc.
18. निविदाकार को प्रतिदिन कार्य के स्थान पर कार्य पूर्ण होने पर साइट की साफ-सफाई अपने व्यय पर करानी होगी/ The tenderer has to make arrangements for cleaning the work site every day and on completion of the work from the work area at his cost.
19. निविदाकार को अनुमोदन के लिए सामग्री के नमूने उपलब्ध कराने होंगे एवं नमूने इंजीनियर प्रभारी की अभिरक्षा में रहेंगे/**The tenderer should provide samples of the materials for approval of Bank and the samples will be kept in the custody of the Engineer-in-charge.**
20. जहां तक संभव हो कार्य ठेकेदार की फैक्ट्री पर किया जाए एवं मद साइट पर लाई जाएं/Wherever possible the work has to be carried out at the factory of the contractor and the items to be transported to the site.
21. निविदाकार को उसकी फैक्ट्री/कार्य स्थल पर बनाई गई मदों का प्रभारी इंजीनियर द्वारा निरीक्षण करने की व्यवस्था करेगा. निविदाकार को फैक्ट्री में फेब्रीकेशन एवं अन्य कार्य पूर्ण करने होंगे साइट पर केवल एसेंबलिंग एवं फिनिशिंग का कार्य करना होगा./The tenderer should make necessary arrangement for inspection of the items made at his factory / work place by the Engineer-in-charge. The tenderer should complete fabrication and other works at factory and only assembling work and the finishing may be carried out at the site.

22. निविदाकार को परिसर विशेषतः कार्य-समय, परिसर में कामगारों की प्रविष्टि, स्टाफ एवं साइट पर कार्यरत अन्य एजेंसी से अंतर्व्यक्तिक संबंध के लिए नियम एवं विनियम का पालन करना होगा/The tenderer should abide by the rules and regulations for the premises especially on the working hours, entry to the workers to the premises, interpersonal relation with the staff members and other agencies engaged at the site.
23. निविदाकार को कार्य के दौरान सभी फर्नीचर मर्दे/ रिकार्ड, यदि किसी ग्राहक का कोई है को ढकने के लिए व्यवस्था करना सहोगी एवं इसे कपड़े/कवर से ढंका जाए/The tenderer should make necessary arrangement for covering of all the furniture items/ records, if any of the client with cover / cloth during the course of work.
24. निविदाकार को पूरे कार्य के दौरान साइट पर योग्यता प्राप्त (न्यूनतम डिप्लोमाधारक) सुपरवाइज़र का प्रबंध करना होगा. निविदाकार को कार्य पूर्ण होने तक सुपरवाइज़र को बदलना नहीं चाहिए. जब कार्य प्रगति पर हो जो सुपरवाइज़र को साइट पर रहना चाहिए/The tenderer should arrange a qualified (minimum diploma holder) supervisor at site during the course of the entire work. The tenderer should not change the supervisor till completion of the work. The supervisor should be available at site when the work is in progress.
25. बैंक के किसी भी प्रकार के नुकसान/हानि को ठेकेदार की लागत एवं जोखिम पर सुधारा जएगा/Any damage / loss to Bank will be rectified at the cost & risk of the contractor.
26. कारीगरी उच्च गुणवत्ता/मानक की होनी चाहिए एवं इस संबंध में प्रभारी इंजीनियर/बैंक का निर्णय अंतिम होगा/The workmanship should be of high quality / standard and the decision of the Engineer-in-charge / Bank shall be final in the regards.
27. विदकार को लकड़ी के कार्य लिए प्रभारी इंजीनियर के प्रमाण-पत्र एवं निरीक्षण के पूर्व प्रायमर/पुट्टी कार्य/रंग-रोगन अथवा कोई अन्य फिनिशिंग कार्य नहीं करना चाहिए/ The tenderer should not apply primer / putty work / paint or any other finishing material before inspection and certification of the wood work by the Engineer – in – Charge.
28. निविदाकार को किसी भी ऐसे व्यक्ति को कार्य के लिए नियुक्त नहीं करना चाहिए जो नियमानुसार कार्य के लिए प्रतिबंधित हो/The tenderer should not engage any person prohibited by the law for execution of the job.

29. निविदाकार विनिर्दिष्टानुसार एवं प्रभारी इंजीनियर द्वारा निर्देशित किए अनुसार कार्य करना चाहिए/The tenderer should carry out the work strictly as per the specification and as directed by the Engineer-in- Charge.
30. प्रयोग की जाने वाली प्रस्तावित सभी सामग्री बैंक द्वारा अनुमोदित हो/ **All the materials proposed to be used should have the approval of Bank.**
31. कार्य के लिए आवश्यक सभी सामग्री को सीधे उत्पादक अथवा अनुमोदित डीलर से क्रय करना चाहिए. मांगे जाने पर इस आशय की पुष्टि प्रस्तुत की जानी चाहिए/The materials required for the work **should be purchased only from the manufactures directly or from the approved dealers.** Confirmation for the same may be submitted if so desired.
32. निविदाकार को अनुमोदित रंग-योजना का कड़ाई से पालन करना चाहिए. ठेकेदार को रंग-योजना की जानकारी कार्य-आदेश जारी होने की दिनांक से एक सप्ताह में सूचित की जाएगी. तथापि बैंक आवश्यकतानुसार अन्य परिवर्तन करने के लिए स्वतंत्र होगा/The tenderer should strictly follow the approved colour scheme. The colour scheme will be intimated to the contractor within a week from the date of issue of the work order. However Bank has the liberty to make any other modifications as per requirements.
33. विघटित सामग्री/कबाड़े को साइट से प्रतिदिन हटाया जाए एवं म्युनिसिपल कार्पोरेशन द्वारा निर्धारित स्थान पर अपनी लागत से ले जाया जाए/The dismantled material / debris should be removed from the site daily and be transported out to the place as designated by the Municipal Corporation at his own cost.
34. निविदाकार को सामग्री के स्टोरेज के लिए स्वयं व्यवस्था करना होगी. बैंक उपलब्धता के अनुसार परिसर में कुछ स्थान (अनकवर्ड) स्टोरेज के लिए उपलब्ध करा सकता है.साइट पर आवश्यकतानुसार ही सामग्री स्टोर की जाए. साई पर इस् प्रकार स्टोर सामग्री/रखी गई सामग्री की सुरक्षा व्यवस्था ठेकेदार को करनी होगी/The tenderer should make his own arrangement for storage of materials. Bank may provide some space subject to availability (uncovered) within the premises for storage purpose. Materials only as per requirement are to be stored at site. Security for the material such stood/lying at site will be arranged by the contractor.
35. किसी भी प्रकार के नुकसान हानि की भरपाई निविदाकार को अपनी लागत पर करना होगी/ Any damage / loss will be rectified at the cost & risk of the tenderer.

36. निविदाकार को प्रभारी इंजीनियर से प्राप्त अनुदेशों के लिए पुस्तिका रखना होगी/ The tenderer has to maintain a book for instructions from the Engineer-in-charge.
37. ठेकेदार को हैदराबाद म्युनिसिपल कॉर्पोरेशन/किसी भी सरकारी प्राधिकारी से आवश्यक अनुमति प्रतिभूति राशि सहित लेनी होगी, ठेकेदार को प्रतिभूति राशि की प्रतिपूर्ति की जाएगी/**The contractor should obtain necessary permission from the Bengaluru Municipal corporations/ any Government Authority .**
38. ठेकेदार को दैनिक आधार पर परिसर की सफाई करनी होगी/**The Contractor needs to clean the site on day to day basis..**

E. भुगतान/ Payments :

- 1(a.) बिलिंग ग्राहक के नाम पर निविदा के कवर पेज (पेज संख्या -1) दिए अनुसार की जानी चाहिए. बिल की जांच के पश्चात सभी भुगतान सीधे सेन्ट्रल बैंक ऑफ़ इंडिया, बेंगलुरु द्वारा किए जाएंगे/ The billing is to be done in the name of the client as specified on cover page (page no. 1) of the tender. After checking the bill by Bank. All payment will be directly released by Central Bank of India, Bengaluru.
- 1(b) ठेकेदार को निविदा दस्तावेज में बिल ऑफ़ क्वांटिटिज़ में उल्लिखित प्रारूप के विनिर्दिष्टानुसार ठेकेदार को बिल प्रस्तुत करने होंगे/**The Contractor has to submit the bill strictly as per the format of the specifications as mentioned on the bill of quantities in the tender document.**
1. मद जिनका कि कार्य पूरा हो चुका है रनिंग अकाउंट बिल का भुगतान मासिक रूप से एवं आंशिक रूप से पूरा किए गए कार्यों के लिए कार्य पूरा किए जाने के प्रतिशत के आधार पर उचित बिल के साथ पूरा किए गए कार्य की माप प्रस्तुत करने पर किया जाएगा. अनुबंध के नियम एवं शर्तों के अनुसार रनिंग बिल में से प्रतिभूति राशि, अन्य सांविधिक कटौती /वसूली की जाने योग्य राशि की कटौती की जाएगी/**The running account bills will be released monthly for the completed items of work and for the partly completed items based on the percentage of the work executed on proper submission of the bill together with the measurements of the work carried out. The Security Deposit, other statutory deduction and any other amounts as may be deductible / recoverable as per the terms and conditions of contract will be deducted from the running bills.**
2. रनिंग बिल के लिए भुगतान को अंतिम बिल के लिए अग्रिम के रूप में माना जाएगा/**The payment towards the settlement of running bills will be treated as the advance towards settlement of final bill.**

3. धारण राशि/प्रतिभूति जमा के रूप में प्रत्येक रनिंग बिल के मूल्य से 5 प्रतिशत राशि की कटौती की जाएगी/
5% of the value of each running bill will be deducted as Retention Money / Security Deposit.
 4. फाइनल बिल का भुगतान समग्र कार्य संतोषजनक रूप से पूरा करने सभी एवं उल्लिखित नियम एवं शर्तों/दायित्वों को पूरा करने एवं माप सहित उचित बिल प्रस्तुत करने के उपरांत किया जाएगा/The final bill will be released on satisfactory completion of the entire work and on completion of all the terms and conditions / obligations spelt out and on proper submission of the bill together with the measurements.
 5. प्रतिभूति राशि का 50 प्रतिशत अंतिम बिल के साथ भुगतान किया जाएगा . प्रतिभूति राशि का शेष 50 प्रतिशत 12 माह की दोष देयता अवधि के पूरा होने पर किया जाएगा. प्रतिभूति राशि के भुगतान करने के पूर्व यह आवश्यक है कि ठेकेदार संबंधित ग्राहक से कार्य पूरा करने का प्रमाण-पत्र ले/50% of the Security Deposit will be refunded together with the final bill. The remaining 50% will be returned to the tenderer after the completion of defect liability period of 12months. **Before releasing the security deposit, it is mandatory that the contractor has to take the completion certificate from the respective Client.**
- दोष देयता अवधि समाप्त होते ही ठेकेदार को ऑफिशियल से तत्काल मिलना चाहिए एवं इस आशय का प्रमाण पत्र लेना चाहिए ताकि प्रतिभूति राशि का भुगतान किया जा सके. यदि कुछ सुधार कार्य अथवा मरम्मत का कार्य करना हो तो उसे पूर्ण किया जाना चाहिए एवं प्रतिभूति राशि के भुगतान के लिए संबंधित क्लाइंट से प्रमाण-पत्र लेकर हमें अग्रेषित करें/The contractor should approach the concerned client officials immediately on completion of the 'Defect liability Period' and obtain such certificate so that the Security Deposit should be released. In the event that some rectification or some repairs have to be carried out, the same should be completed and got certified from the concern client and forwarded to us for releasing the Security Deposit.
6. निष्पादन के समय प्रचलित नियम के अनुसार देय राशि से आयकर, कार्य अनुबंध पर बिक्री कर, वेट, उपकर और/अथवा अन्य सांविधिक कटौती की जाएंगी जिसके लिए निविदाकार के पक्ष में प्रमाण-पत्र जारी किया जाएगा/Income Tax, Sales Tax on Work Contract, VAT, Cess and / or any other Statutory deductions as per the prevailing rules at the time of execution will be deducted from the payable amount for which certificate will be issued in favour of the tenderer.

8. निविदाकार को बैंक के पास धारण राशि अथवा रनिंग अकाउंट बिल राशि पर किसी भी प्रकार के ब्याज का हकदार नहीं है/ Tenderer will not be entitled to any interest on Retention Money or any Running account bill money for the time it will remain with the Bank.
9. कार्य की मद एवं इन मदों के लिए लगभग क्वांटिटी शिड्यूल ऑफ क्वांटिटी में दी गई है एवं इसे कार्य के लिए स्पष्ट क्वांटिटी नहीं माना जाना चाहिए. निविदाकार को अनुबंध के प्रावधान एवं विशिष्टताओं के अनुसार पूरा किए गए कार्य के लिए वास्तविक क्वांटिटी के आधार पर भुगतान किया जाएगा The items of works as well as the approximate quantities against these items as given in the schedule of **quantities and the same should not be considered precise quantity of works to be carried out.** The tenderer shall be paid on the basis of the actual quantity of completed work as per the provisions of the contract and as per the specifications.
10. /यह संभव है कि कार्य के दौरान कुछ कार्य के कुछ अतिरिक्त मदें आएंगे. ऐसी मदों के लिए भुगतान इंजीनियर दर विश्लेषण पर किया जाएगा.सामग्री की लागत का 15 प्रतिशत घटक(वास्तविक क्रय मूल्य/बिना अपव्यय के बाजार मूल्य) एवं मजदूरी को निविदाकार का लाभ एवं अन्य अतिरिक्त के रूप में विचार किया जाएगा/ It is possible that certain extra items of work may come up during the course of work. The payment for such items will be made based on Engineering/Market rate analysis. A component of 15% on the cost of material (actual purchase cost / market price without any wastage) and labour will be considered as tenderers profit and other overheads.
11. टैक्स इनावॉइस एवं बिल का सारांश अनिवार्यतः बैंक के अनुमोदित प्रारूप में ही प्रस्तुत किया जाए/ The Tax invoice and the abstract of the bill should be submitted strictly as per the approved format of Bank.
12. बिल के साथ सभी आवश्यक माप, स्केच, संयुक्त माप संलग्न किए जाएं (यदि कोई है)/The bill should be attached with all necessary measurements, sketches, joint measurements (if any).

F. वृद्धि/ Escalation :

1. किए गए कार्य की दर में वृद्धि की जाएगी/ **No escalation** in rate shall be paid for the works carried out.
2. कार्य के दौरान सामग्री एवं मजदूरी में उतार-चढ़ाव के कारण दावे पर विचार नहीं किया जाएगा (निविदा स्वीकारने की दिनांक से कार्य पूर्ण करने का प्रमाण-पत्र जारी करने तक) No claim on account of fluctuation of rates of material and labour will be entertained during the course of work – (from the date of acceptance of the Tender till issue of completion certificate).
- 3.

G. दोष देयता अवधि/ Defect Liability Period :

1. अनुबंध की शर्तों के अनुसार दोष देयता अवधि कार्य के वास्तविक रूप से पूरा होने की दिनांक से 12 माह है। कार्य को वास्तविक रूप से तभी पूरा माना जाएगा जब निविदाकार द्वारा समग्र कार्य विनिर्दिष्टानुसार पूरा कर लिया जाएगा एवं प्रभारी इंजीनियर तथा निविदाकार द्वारा संयुक्त निरीक्षण किया जाएगा/ Defect Liability Period as per the terms of the contract is **12 months** from the date of virtual completion of the work. The work will be considered as virtually completed only when the tenderer completes the entire work as per the specification and joint inspection of work by the Engineer-in-charge and tenderer.
2. प्रतिभूति राशि का भुगतान 12 माह की दोष देयता अवधि तथा दोष के सुधार चाहे उनको बुलाकर अथवा बिना बुलाए इंगित किया गया हो. ठेकेदार का यह कर्तव्य है कि वह दोष देयता अवधि में दोष में सुधार करे/ The **Security Deposit** will be refunded only after the defect liability period of **12 months** and rectification of the defects occurred whether pointed out in inviting or not. It will be the duty of the contractor to inspect the site for defects and rectify the defects within the defect liability period.
3. दोष देयता अवधि के दौरान निविदाकार को सभी दोष यदि कोई हैं, नोटिस किए गए हैं को बिना प्रभार के दूर करना होगा/ During the course of Defect Liability Period the tenderer has to rectify all the defects, if any, noticed free of charge.
4. यदि निविदाकार सुधार कार्य को रिपोर्ट करने के 7 दिन के अंदर सुधार नहीं करनता है तो बैंक को इस कार्य को किसी अन्य ठेकेदार अथवा एजेंसी से निविदाकार की लागत एवं जोखिम पर कराने की स्वतंत्रता होगी. इस प्रकार से हुए व्यय को क्लाइंट प्रतिभूति राशि में से वसूल करेगा. यदि व्यय प्रतिभूति राशि से अधिक होता है निविदाकार को कम पड़ने वाली राशि का भुगतान करना होगा/ In case the tenderer fails to attend the rectification work within 7 days of reporting the same in writing, Bank will have the liberty to carry out the said work through some other contractor at the cost & risk of the tenderer. Such expenditure incurred to the client will be recovered from the Security Deposit. In case any expenditure incurred is more than the Security Deposit, the tenderer should pay the difference that may fall short.
5. सुधार कार्य करते समय निविदाकार को यह सुनिश्चित करना होगा कि वह आस-पास में कोई नुकसान न हो पाए. यदि कोई नुकसान होता है तो इसकी भरपाई निविदाकार को करनी होगी/ While carrying out the rectification work, the tenderer should ensure that the surroundings should be protected

against any possible damage. In case of any damage, the same should be made good by the tenderer.

H अनुपालन किए जाने सांविधिक दायित्व/Statutory obligations to be followed :

1. निविदाकार को प्रचलित सभी राज्य एवं केन्द्रीय एवं स्थानीय निकायों की सांविधिक आवश्यकताओं का अनुपालन सुनिश्चित करना होगा ताकि बिना किसी अतिरिक्त लागत के समय पर सुचारु रूप से कार्य पूरा हो जाए/The tenderer should ensure adherence of all statutory requirements under the State and Central Rules in force and other local bodies for smooth and timely completion without any additional cost.
2. निविदाकार को कार्य निष्पादन के लिए एवं प्रोजेक्ट को पूरा करने के लिए सामग्री की उपलब्धता के लिए, साइट पर नियुक्त किए गए मजदूरों के संबंध में नियम एवं विनियम के सभी प्रावधानों (जैसे संविदा मजदूर (विनियम एवं दासता उन्मूलन) अधिनियम 1970, न्यूनतम मजदूरी अधिनियम, शिक्षा अधिनियम, एवं अन्य सभी मजदूरी नियम जो कि सरकारी प्राधिकारियों द्वारा समय समय पर प्रभावी किए जाते हैं) का पालन करना होगा. बैंक मजदूरी विनियम अथवा प्रचलित नियमों के अनुपालन करने पर किसी भी प्रकार के दंड के लिए जिम्मेवार नहीं होगा/The tenderer shall comply with the provisions of all the rules and regulation in respect of labours engaged at site (such as Contract Labour {Regulation & Abolition} Act, 1970, Minimum Wages Act, Apprentice Act and all other labour laws as may be enforced from time to time by the Government Authorities) for execution of work, procurement of material for completion of the entire project. Bank shall not be held responsible for any penalty on failure of any of the labour regulations or on failure of any compliance of any rule in force.
3. निविदाकार को बिक्री कर (दोनों राज्य एवं केन्द्र), सीमा शुल्क, इत्यादि के प्रावधानों का कड़ाई से अनुपालन करना होगा. सभी प्रकार के शुल्क/कर निविदाकार द्वारा वहन किए जाएंगे एवं भुगतान किया जाएगा. बैंक किसी भी चरण पर इसके लिए किसी भी प्रकार के भुगतान/दंड के लिए जिम्मेदार नहीं होगा/The tenderer shall strictly comply with the provision of Sales Tax (both State & Central), Excise Duty, etc. All the duties / taxes with respect to the work should be borne and paid by the tenderer himself. Bank shall not be responsible for any payment/ penalty on this account at any stage.
4. निविदाकार के कार्यालय/साइट पर निर्माण किए जाने वाले सामान के लिए निविदाकार को केन्द्रीय उत्पाद शुल्क देना होगा एवं उसको निर्माण की जाने वाली साइट से सामान ले जाने के लिए उत्पाद शुल्क चालान की प्रति प्रस्तुत करनी होगी. यदि सामान का निर्माण साइट पर किया जा रहा है तो उत्पाद शुल्क अदा किया गया है

इसकी चालान प्रति बैंक को प्रस्तुत करनी चाहिए / The goods are manufactured at the tenderers office / site, the tenderer has to pay Central Excise and he has to produce Excise Invoice Copy for removal of goods from the manufacturing site. In case the goods are manufactured or produced at the site then Excise Invoice showing that the Central Excise has been paid should be submitted to Bank.

5. निविदाकार को इस आशय का कथन प्रस्तुत करना चाहिए कि अनुबंध के तहत सभी प्रकार के कर/शुल्क का भुगतान कर दिया गया है एवं निविदाकार इस संबंध में सभी प्रकार के दावों की प्रतिपूर्ति बैंक को करेगा/The tenderer should submit a statement confirming that all duties / taxes of every nature covered under the contract have been paid and the tenderer shall indemnify the Bank against all claims in that behalf.
6. निविदाकार को राज्य एवं केन्द्र के प्रभावी सभी नियमों का अनिवार्यतः अनुपालन सुनिश्चित करना होगा/ The tenderer should ensure adherence of all the requirements under the State and Central Rules in force.
7. निविदाकार को संलग्न प्रारूप के अनुसार केन्द्रीय उत्पाद शुल्क के भुगतान के लिए शपथ -पत्र/घोषणा-पत्र प्रस्तुत करना होगा/The tenderers should submit an affidavit / Declaration on payment of Central Excise as per the enclosed format.
8. निविदाकार को आवश्यकता पड़ने पर गत वर्ष के लिए केन्द्रीय उत्पाद शुल्क के साथ फाइल किए गए घोषणा - पत्र की प्रति प्रस्तुत करनी होगी/The tenderer should also submit when required, a copy of the declaration filed with the Central Excise for the last financial year.
9. सफल निविदाकार को कार्य आदेश प्राप्त की दिनांक से कार्य एवं कामगारों से संबंधित ठेकेदार की समग्र जोखिम पॉलिसी(सीएआर)अनुमोदित बीमा कंपनी से निविदाकार एवं ग्राहक के संयुक्त नामों पर कार्य प्रारंभ होने के दिन से कथित परिसर के लिए दोष देयता अवधि तक के लिए लेना होगी/**The successful tenderers are required to take Contractor's All Risk insurance policies (CAR Policies) with respect to the work within one week from the receipt of the work order and the workmen with an approved Indian Insurance Company in the joint name of CLIENT and the Tenderer from the day of commencement of work till the defect liability period for the said premise.**
10. कार्य का बीमा अनुबंध मूल्य का 125 प्रतिशत होना चाहिए/**The value of the work to be insured would be 125% of the contract value.**

11. सीएआर पॉलिसी में तृतीय पक्ष देयता एवं रख-रखाव के अंतर्गत अतिरिक्त कवरेज होना चाहिए. देयता प्रति दुर्घटना एक लाख रुपये एवं दुर्घटना की संख्या अनंत होनी चाहिए. अनुबंध की शर्तों के अनुसार रख-रखाव अवधि दोष देयता अवधि होगी. मूल पॉलिसी सेंट्रल बैंक ऑफ़ इंडिया के पास जमा की जाए/The CAR policies should have additional coverage under 3rd party liabilities and maintenance period. The liabilities should be One Lakh Rupees per accident and the number of accidents should be infinity. The maintenance period shall be the defect liability period as per the terms of the contract. The original policies shall be deposited with CBI
12. निविदाकार को कामगारों का कामगार क्षतिपूर्ति अधिनियम-1923 के अंतर्गत बीमा भी कराना होगा/The tenderer has also to insure their workers under Workman's compensation Act- 1923.
13. बैंक के पास अपने हितों की रक्षा के लिए सीधे बीमा कराने अथवा निविदाकार की वजह से की गई उचित कोई भी कार्रवाई एवं इसकी वसूली निविदाकार से की जाएगी यदि निविदाकार ऐसा हैकरने में असफल रहता है/ Bank will have the right to protect its interest either by taking insurance directly or by any action that may deem fit on account of the tenderer and recover the same from the tenderer incase the tenderer fail to do so.

I निविदाकार की जिम्मेदारी/ Responsibilities of the tenderer

1. निविदाकार को निविदा स्वीकार करने के 7 दिन के अंदर स्टॉम्प पेपर पर आर्टिकल ऑफ एग्रीमेंट के अनुसार जो इस सूचना के साथ संलग्न है करार करना होगा/The tenderer should enter into an agreement as per the articles of agreement on stamp paper attached with this notice within 7 days of issue of acceptance of the tender.
2. निविदाकार को बैंक के लिखित अनुमोदन के बिना कार्य उप-ठेके पर नहीं देगा/ The tenderer shall not sublet the work without written approval from Bank.
3. निविदाकार प्रोजेक्ट के निष्पादन के लिए अन्य ठेकेदारों के साथ समन्वय करेगा/The tenderer should co-ordinate with all the other contractors for execution of the project.
4. निविदाकार को कार्य आरंभ करने के पूर्व साइट का ले आउट बनाकर इसका अनुमोदन बैंक से प्राप्त करना होगा /The tenderer should set out the layout at site before commencement of work and obtain approval to the same from Bank.
5. ठेकेदार को पूरे प्रोजेक्ट के लिए अपने व्यय पर पर्याप्त प्रकाश और पावर प्वाइंट की व्यवस्था करनी होगी/ The contractor should arrange for sufficient light & power point required for entire project at his cost.

6. निविदाकार को वास्तविक रूप से कार्य पूरा होने के 7 दिन के अंदर सभी सामग्री हटानी होगी एवं इसके लिए किसी भी प्रकार का भुगतान नहीं किया जाएगा/The tenderer should clear the site within 7 days of virtual completion of work of all material not paid for.
7. निविदाकार को कार्य आदेश प्राप्त होने की दिनांक से 7 दिन के अंदर र्क का शिड्यूल एवं बार चार्ट प्रस्तुत करना होगा/The tenderer should submit the schedule and bar chart of work before commencement of the work within 7 days of receipt of work order.
8. निविदाकार को साइट पर आग के जोखिम के लिए सावधनी बरतनी होगी. निविदाकार को कार्य के दौरान अग्नि से बचाव के समस्त उपाय सुनिश्चित करने होंगे एवं स्थानीय अग्निशमन कार्यालय के अग्नि-सुरक्षा मानदंडों के अनुरूप यकार्य करना होगा/**The tenderer should take adequate precaution against fire hazard at site. The tenderer should ensure that all fire safety measures are taken during execution and that the work carried out is as per the fire safety norms of the local Fire office.**
9. निविदाकार को कार्य के उचित निष्पादन के लिए मचान/सीढ़ी की व्यवस्था करना होगी साथ ही संबंधित नियमों के प्रावधानों के अनुसार कामगारों की सुरक्षा सुनिश्चित करनी होगी/ The tenderer should arrange scaffoldings / ladders for proper execution of work, also to ensure safety of the workers as per the relevant provisions of the law.
10. निविदाकार को कार्य प्रारंभ करने के पूर्व अतिरिक्त/कार्य के अलावा मदों के संबंध में दर विश्लेषण प्रस्तुत करना होगा/The tenderer should submit rate analysis for the extra/deviated items of work before commencement of the work.
11. निविदाकार को प्रयोग में लाइ जाने वाली प्रस्तावित सामग्री का नमूना बैंक के अनुमोदन के लिए प्रस्तुत करना होगा/**The tenderer should submit samples of the material proposed to be used for the approval of Bank.**
12. निविदाकार को बैंक के अनुमोदन के लिए प्रभारी इंजीनियर के परामर्शानुसार मदों का उचित मोक-अप तैयार करना होगा एवं ठेकेदार को मोक अप नमूनों में तब तक संशोधन करना होगा जब तक कि बैंक का अनुमोदन प्राप्त नहीं हो जाता है. मोक-अप नमूनों के लिए व्यय कार्य की संबंधित मदों में शामिल किए जाने चाहिए/
The tenderer should prepare mock-up of the items for the approval of the Bank and as per the advice of engineer in charge, the contractor has to modify the mock-up samples till it meets with the approval of the Bank. The expenditure that may be incurred for making the mock-up samples should be included in the respective items of work.

13. यदि निविदाकार भागीदार फर्म है तो फर्म के संगठन में किसी भी प्रकार के परिवर्तन की सूचना बैंक को दी जानी चाहिए/In case the tenderer is a partnership firm, any change in the constitution of the firm shall be informed to Bank.
14. निविदाकार को कार्य की प्रत्येक मद हेतु कार्य आरंभ करने के पूर्व सभी मदों के लिए बैंक के अनुमोदन हेतु शॉप ड्राइंग प्रस्तुत करनी होगी/ **The tenderer should submit shop drawings for all the items for the approval of Bank before execution of each item of work.**
15. निविदाकार को सूचना प्राप्त होने पर रद्द किए गए कार्य/सामग्री को तत्काल हटाना होगा/ The tenderer should remove the rejected work / materials immediately on receipt of instruction to do so.
16. निविदाकार को परिसर बैंक को सौंपे जाने तक परिसर की सुरक्षा सुनिश्चित करनी होगी/The tenderer has to ensure safety of the premises and the work till handing over of the same to Bank.
17. यदि कार्य, साधन अथवा परिचालन के संबंध में अथवा इस अनुबंधक को प्रभावित करने अथवा इसमें किसी भी प्रकार के भंग होने जैसे किसी भी प्रकार के विवाद/मतभेद, यदि कोई आते हैं तो इसका निपटान दो निर्णायक जिनकी नियुक्ति इंडियन कौंसिल ऑफ़ आर्बिट्रेशन के नियमानुसार एक निविदाकार द्वारा एवं एक बैंक द्वारा नियुक्त किया जाएगा एवं इसका निर्णय दोनों पक्षों पर बाध्यकारी होगा/ All disputes/ differences, if any, arising between the parties out of or relating to the works, meaning or operation or effect of this Contract or the breach thereof will be settled by two Arbitrators, one each appointed by the tenderer and Bank in accordance with the rules of Arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on both the parties.

नोट/Note.

- 18 ; ठेकेदार को बेंगलुरु म्युनिसिपल कॉर्पोरेशन/किसी भी सरकारी प्राधिकारी से आवश्यक अनुमति प्रतिभूति राशि सहित लेनी होगी, ठेकेदार को प्रतिभूति राशि की प्रतिपूर्ति की जाएगी/**The contractor should obtain necessary permission from the Bengaluru Municipal corporations/ any Government Authority .**
- 19 ; ठेकेदार को दैनिक आधार पर परिसर की सफाई करनी होगी/**The Contractor needs to clean the site on day to day basis.**
- 20 इस सूचना के साथ संलग्न The special conditions annexed with this notice has to be strictly followed.

21 यह सूचना इस अनुबंध का हिस्सा है/This notice shall form part of the contract.

CENTRAL BANK OF INDIA.

<i>Summary</i>		
	Time of Completion	60 Days from the date of Issue of Work Order
	Date of Commencement of work	Within 7 days from the date of issue of Work Order
	Liquidated damages	1 % of the total contract value per week subject to the maximum of 10 % of the contract value
	Minimum Value of work for interim certificate	50% of Project cost.
	Validity of the offer	120 days from the date of opening the tender.
	Security Deposit (Retention money)	10 % of total value of work done, out of which, 50% will be released at the time of settlement of final bill.
	Sales Tax, Excise duty, Royalty, Octroi, Work contract tax or any other statutory levies / Taxes / Cess.	To be entirely borne by the Contractor. The rate/ amount quoted shall be inclusive of all the taxes, VAT, duties and levies valid for the entire contract period. The rates to be all-inclusive.
	Insurance policy	1. CAR policy with value of 125% of the contract value 2. Third Party Insurance – Rs.1 Lac per accident and no. of accidents infinite.
	Defects Liability Period	12 (Twelve) months from the date of virtual completion / handing over.
	Terms of Payment	1. No advance 2. Interim bill monthly 3. Settlement of Interim bill within 15 days from the date of receipt of bill by CBI 4. Minimum bill amount 50% of Work Order. 5. Final Bill settlement within 45 days from the date of receipt of bill by CBI from the date of proper submission and verification of measurements
	Deductions	Income Tax at source as per Income Tax Rules Sales Tax / Works Contract Tax/ Commercial Tax as applicable in the statement. Cess applicable as per the local rules Any other Levy/Cess/Tax to be deducted at source by law.
	Extra / Additional work	15% of the cost of material and labour towards overheads and profit

I / We hereby agree and accept the above terms and conditions.

(Seal)
For (Name and address of the Contractor)

Signature of the Tenderer
For (Name of the Contractor and Designation)



Annexure-I

(On Rs.100/- non-judicial stamp paper by the successful bidder)

From : The Contractor

To Central bank of India, Bengaluru.

Dear Sirs,

We refer to the tender dated _____ for _____ at the premises mentioned on cover page (page no.1) of the tender. We hereby confirm that we have complied with all formalities in the performance of our Contract for the supply of goods and services under all statutes governing the same, Central, State or Local. We further confirm that we have paid all taxes and duties including sales tax and excise duty in respect of the goods and services supplied to you and undertake to be responsible for the same.

We agree to indemnify and keep you indemnified against any claim or demand and all loss, costs, charges and expenses incurred or suffered by you as a result of any claim being made by any person in respect of our obligation under the said tender for payment of taxes, duties or otherwise.

Yours truly,

Date : _____

**SIGNATURE OF CONTRACTOR
WITH RUBBER STAMP**



Annexure - II

(On Rs.100/- non-judicial stamp paper by the successful bidder)

From : The Contractor

To : Central bank of India, Bengaluru.

Dear Sirs,

We refer to the tender / contract dated _____ for supply of goods and services to you at your premises of as mentioned on cover page (page no.1) of the tender. We advise that, we are covered under the exemption limit prescribed by the Central Excise Act 1944 and no Excise is payable by us on the goods and services supplied to you. We further confirm that we have complied with all the formalities in the performance of our contract for the supply of goods and services and under all statutes governing the same, Central, State or local.

We undertake that if any taxes and duties including sale tax and Excise duty in respect of goods and services supplied to you by us is payable, the responsibility of paying the same shall be ours.

We agree to Indemnify and keep you Indemnified against any claim or demand and all loss, cost, charges and expenses incurred and suffered by you as a result of any claim being made by any person in respect of our obligation under the said tender / contract for payment of taxes, duties or otherwise.

Yours truly,

Date : _____

**SIGNATURE OF TENDERER
WITH RUBBER STAMP**

ARTICLES OF AGREEMENT

(On Rs.100/- non-judicial stamp paper by the successful bidder)

This agreement is executed at Bengaluru on this day of 2011 between Central Bank of India, a body corporate, constituted under the provision of Banking Companies (Acquisition & Transfer of Undertakings) Act. 1970, having its Head Office at Chandermukhi, Nariman Point, Mumbai – 400 021. (hereinafter referred to as the “Bank” which expression shall, unless it be repugnant to the context or meaning thereof, includes its successors and assigns) of the ONE PART and M/s (name of contractor), having its Registered office at (address of contractor. (Hereinafter referred to as the “Contractor”, which expression shall, unless it be repugnant to the context or meaning thereof, includes its successors and assigns) of the OTHER PART.

WHEREAS the Bank is desirous of carrying out the (brief description and address of work) and therefore has invited tenders.

AND WHEREAS the contractor has submitted its tender for carrying out the (brief description and address of work) is hereinafter referred at as and the same was accepted by the Bank.

AND WHEREAS the contractor has submitted the tender dated (date of tender) wherein the (brief description of the work) work to be done was also described as per priced schedule of quantities, along with the general condition of contract, special conditions, additional conditions etc., at the respective rates mentioned in the priced schedule of quantities and also as per the essential terms and conditions mentioned in the work order no. (work order no. and date) issued by the Bank to the Contractor.

AND WHEREAS Bank has also accepted the offer of the contractor to fulfill the (brief description of the work) work as agreed to in its tender dated wherein the work to be done was described as per priced schedule of quantities, along with the general conditions of contract, special conditions, additional conditions etc., at the respective rates mentioned in the priced schedule of quantities, and as per the work order no.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

The contractor hereby agrees that it shall execute the (brief description of the work) work as per the tender dated (date of tender) copy whereof is enclosed and the same shall form part and parcel of this agreement, wherein work to be done was described as per priced schedule of quantities,

along with the general conditions of contract, special conditions, additional conditions etc, at the respective rates mentioned in the priced schedule of quantities, and also as per the essential terms and conditions mentioned in the work order no. (work order no. and date) copy whereof in enclosed and the same shall form part and parcel of this agreement.

1. The Bank hereby agrees to pay to the contractor such sums as shall become payable hereunder at the time and in the manner specified in the tender dated and also as per the essential terms and conditions mentioned in the work order no. issued by the Bank to the contractor
2. The Contractor has deposited Rs. (ISD amount) (Rupees (ISD amount in words) Only) with the Bank as Initial security deposit for due performance of the agreement, and the Bank hereby acknowledge the same.
3. Subject to what is stated in para 5 hereinafter, both the parties hereby agree to abide by and submit themselves to the terms and conditions and also stipulations as mentioned in the tender dated (date of tender) (as mentioned by this agreement) and also as per the terms and conditions mentioned in the work order no. (work order no. and date) issued by the Bank to the Contractor.
4. Notwithstanding what is stated in terms and conditions and also stipulations [as to i) appointment of arbitrator and conducting the arbitration proceedings, and ii) the jurisdiction of Courts] as mentioned in tender dated (date of tender) both the parties hereby agrees that:
 - a) The appointment of Arbitrator/s & conducting the arbitration proceedings shall be governed by the provisions of Arbitration and Conciliation Act, 1996, and
 - b) Any dispute / differences, if any, shall be deemed to have arisen in and only courts in Hyderabad shall have exclusive jurisdiction to try and determine the same.
5. The several parts of this contract have been read to us and fully understood and signed by us.
6. This agreement is deemed to have come into force on (date of work order / commencement date).

IN WITNESS WHEREOF THE CONTRACTOR AND THE BANK HAVE AFFIXED THEIR RESPECTIVE SIGNATURES ON THE DAY, MONTH AND YEAR FIRST MENTIONED ABOVE.

Signed and delivered by Central	]	For and on behalf of Central Bank of India
Bank of India by the hands of	]	
Shri.	]	
It's constituted Attorney, In the	]	
Presence of;	]	
1)	]	
2)	]	
Signed sealed (with common	]	
seal) and delivered by	]	
M/s (Name of the firm), through	]	
It's authorized Signatory	]	
Shri.	]	()
In the presence of:	]	Authorized Signatory
1)	]	
2)	]	

CENTRAL BANK OF INDIA

Special conditions of the contract

1. **The wood to be used should have similar / uniform grains and should be totally free from white portions, decay, knots etc.**
2. All the exposed edges of the plywood should be teak wood beadings. The beading to be fixed with adhesive / screw/ nails.
3. **The measurements indicated in the drawings are approximate and may vary as per the site conditions. Bank's interpretation of the design and the specifications mentioned in the entire document shall be final and without appeal. In case of Errors or inconsistency, if discovered in the drawing and specifications, Bank's interpretation shall be final and without appeal.**
4. **The contractor shall submit the Bar Chart & PERT chart before commencement of work and the progress chart during the course of work.**
5. For the design and other details mentioned in the entire document Bank alone has the patent right.
6. The contractor shall take the prior approval from Bank for subletting the job even if the same is to a specialized agency.
7. In case Bank rejects a particular work the tenderer shall remove the same within two days and no payment shall be made for such work.
8. The Contractor has to take all safety measures with regard to the workmen employed as per relevant laws and good engineering practices at site and safety measures against the fire hazard.
9. The contractor has to make necessary arrangement for internal lighting at the site.
10. The contractor has to carry out the job strictly as per specification spelt out in the bill of quantities, the drawings, instructions that may be issued by the Engineer-in-charge and the specification of the Bureau of Indian Standards, National Building Code etc.
11. In case of any discrepancy between the specifications and the drawings, the details mentioned in the specifications / Bill of quantities may be taken as final.
12. The electrical installation works to be carried out by engaging licensed electrical contractor. The successful tenderer shall submit the photocopy of Electrical Contractor's license at the

time of execution of work. The copy of license of Electrical Supervisor and electricians also are to be submitted.

13. The contractor shall submit the single line drawing of electrical installations/wiring of completed work along with the final bill.
14. The contractor shall submit the Test Certificate of the Electrical installations carried out by him as per requirement of local Electrical supply Authority, Indian Electricity Rules, and Indian Electricity Act.
15. The work shall be carried out on holidays and Sundays after and before office hours and during office hours on working days, There shall not be any problem, disturbance in office/other areas/floors as the work is to be executed in working office.
16. The successful tenderer shall depute one electrician and one helper during office hours to avoid any electrical breakdown in electrical installation.
17. The contractor has to carry out the job strictly as per specification spelt out in the bill of quantities, the drawings, instructions that may be issued by the Engineer-in-charge and the specification of the Bureau of Indian Standards, National Building Code etc.
18. In case of any discrepancy between the specifications and the drawings, the details mentioned in the specifications / Bill of quantities may be taken as final.
19. The work will be awarded to the agency that has given the lowest rate (L-1).

CENTRAL BANK OF INDIA

PREAMBLE TO THE BILL OF QUANTITIES

The work proposed to be carried out at the proposed Office premises as mentioned on the cover page (page no.1) of the tender. The premise is proposed to be provided with Furnishing, civil, Electrical and LAN cabling works. The quality of work proposed should have ***the best*** workmanship. The contractor should ensure that only the first quality materials mentioned in the list of material is purchased for the project.

1. The work should be carried out in such a way that the structure is not disturbed.
2. Any difference / discrepancies in the specification should be clarified with the Engineer in charge before submitting the tender. The Engineer in charge will have the liberty to modify the specification to a reasonable limit to suit the basic concept during the course of work; the tenderer should carry out such work without any extra cost.
3. **In case of any major modification such items will be considered as an extra items. Payment for such items will be paid based on the Engineering rate / Market rate analysis. 15% of the total cost of material and labour will be considered as tenderer's profit.**
4. **The contractor should co-ordinate with the other contractors employed at the site for smooth flow of work.**

LIST OF MATERIALS OF APPROVED BRAND AND/OR MANUFACTURE – FURNISHING

1.	Commercial plywood confirming to BIS.	Garnet / Samrat / Kenwood /Century / Donear / Multi / Mayur.
2.	Marine/ water proof plywood confirming to relevant BIS	Garnet / Samrat / Anchor / Century / Kenwood/ Century/ Multi / Mayur.
3.	Flush Door confirming to relevant BIS	Kutty / Samrat / Garnet / ISI make
4.	Block Board confirming to relevant BIS	Anchor / Samrat / Garnet / ISI make
5.	One side Laminated sheet (1 mm thick)	FORMICA/ Samrat Mica / Century / National / Decolum/ Green / Marino / Neoluxe or any ISI make.
6.	One side Laminated sheet (1.5 mm thick)	Signature / Samrat Mica / Century / International / Royal
7.	12 mm thick pre-laminated (on both sides) particle board	NOVAPAN (India) Ltd., or equivalent.
8.	ACP	Al Strong, Superbond, Euro Bond or equivalent.
9.	Soft Board	Jolly Board or equivalent.
10.	Veneer	Composed veneer / Donear / Garnet or equivalent.
11.	Veneer – Indian	Garnet / Donear / Kit ply or equivalent.
12.	Melamine Finish	Wood coat pigmented (2 coats) manufactured by M/s. MRF Ltd. / Asian Paints – as per manufacturers specification
13.	Glazing	Tata Float / Modi float / Saint Gobain
14.	Glazing (Clear)	Modi float / Hindustan / Tata
15.	Mirror	Modi float / Tata asahi
16.	Tower bolt	Jyoti/ ebco / ISI Mark / Flora or equivalent.
17.	Ball catch ordinary	National / ebco / Brass Heavy Duty
18.	Ball catch magnetic	Earl Bihari Pvt. Ltd.
19.	Handle	Dorset / ebco / ISI marked
20.	Hinges for cupboards – with stainless steel rod	Dorset / ebco / ISI marked
21.	Hinges for cupboards – with stainless steel rod	National / Dorset
22.	Box Hinges	Lama Imported
23.	Drawer Guide – Telescopic	Efficient / Earl Bihari or equivalent.
24.	Drawer Guide – Regular	Earl Bihari Pvt. Ltd. or equivalent.
25.	Keyboard – Indian	Earl Bihari Pvt. Ltd. or equivalent.
26.	Keyboard – Imported with HDP	Ebco / ISI marked
27.	Screws	GKW or equivalent
28.	Lock for drawers – multi lock	Efficient / dorset / godrej
29.	Lock – for cupboards	Godrej / dorset
30.	Door Lock – Cylindrical lock	YELE / Union / Godrej / dorset
31.	Door Lock – Mortise	Godrej / dorset
32.	Night latch	Godrej / Yele / dorset

33.	Door Closure	Garnish / Hyper / Everlite
34.	Floor Spring	Everite/ Garnish
35.	Door stopper	Earl Bihari Pvt. Ltd. or equivalent.
36.	Aluminum Section	NALCO / HINDALCO / JINDAL
37.	Adhesive for wood	Fevicol / Vamicol
38.	Rubberized adhesive	SR 998 or SR Express of M/s. Pedilite Industries.
39.	Acrylic sheet	Imported
40.	Asbestos cement sheet	Everest
41.	False Ceiling Sections	India Gypsum Ltd.
42.	Plaster of Paris	Approved quality
43.	Marble	First quality with uniform texture without any crack.
44.	Cement	Larsen & Tubro / ACC - 53 grade or high.
45.	Cement for fixing tiles as dado	Larsen & Tubro / ACC - 43 grade.
46.	White cement	Birla white
47.	Steel for reinforcement	TATA/ SAIL conforming to BIS specification.
48.	Water proofing compounds	Roffe/ Cica / Krishna Chemicals / Sunanda Perma quick.
49.	Vitrified Tiles	Bell Granito / Euro / Nitco / Johnson / City tiles / Kajaria
50.	Ceramic tiles	Kajaria/ NITCO/Johnson/Somani / City tile.
51.	Sanitary fittings	Hindustan Sanitary ware / Perry ware.
52.	Water supply fixtures	Jaguar continental series / Essco
53.	CI Pipe & fittings – LA Class	Bangal iron Corporation / NICO / BIC
54.	GI Pipe – C Class	TATA/ zenith
55.	Stoneware pipe – Grade A	Dalmia
56.	Cement pipe	Everest
57.	PVC Pipe & fittings	Prince/ Tribore
58.	Gate valve	Leader
59.	Pipe fittings	R Brand or equivalent
60.	Colour pigment	Roffe Compound
61.	Toilet Seat cover	Commander / Patel
62.	Toilet – Accessories	Jaguar continental series
63.	Liquid Soap Container	ASCON Engineers
64.	Hand dryer	ASCON Engineers
65.	Paint	Nerolac/ Asian/ Berger / ICI
66.	Sealant	Silicon – Dow Corning 995 Polysulphide – Pedilite Industries

**LIST OF MATERIALS OF APPROVED BRAND AND/OR MANUFACTURE –
ELECTRICAL**

ALL MATERIAL USED MUST HAVE ISI & FIA APPROVED

1.	Rigid PVC Conduit	:	Medium Gauge wall thickness ISI & FIA approved & manufactured from virgin material Precision
2.	Accessories for conduit	:	Same make as sr. no. 1 above.
3.	Copper Conductor PVC coated wire (Flexible) (As per IS:694-1977)	:	Finolex (FRLS),
4.	Switches	:	MK India,
5.	Main Switch fuse upto 63 Amps - A.C. 23 duty	:	L&T
6.	Above 63 Amps-A.C. 23 duty	:	L&T
7.	HRC Fuses	:	L&T
8.	MCBs	:	Legrand (Load Contact)
9.	Distribution boards	:	Legrand (Double Door), Factory fabricated duly as per the drawing.
10.	Rewirable Porcelain Fuse	:	CPL
11.	Telephone wires	:	Finolex as per ITD S/WS-113 B
12.	PVC tape	:	Steel grip.
13.	Compound	:	Shalimar No. 6
14.	Main Cables down stream up to 35 sq.mm.	:	PVC armoured cable For 1.1 KV as per ISI 1554. National / Polycab
15.	Branched Cable downstream from 35 sq.mm.	:	National
16.	Glands	:	Double compression type, siemens type with rubber ring and double washers (Sample to be approved) Comet/ Comex
17.	Cable Lugs	:	Dowells, 3-D.
18.	Metal Clad Plugs	:	Legrand
19.	Connectors/ Indicator	:	Technic, Mimic (Static LED type), Technoplast, Porcelain
20.	Button holder, Angle holder, ceiling rose	:	Anchor
21.	M.S. Conduit - ISI marked	:	BEC
22.	M.S. Boxes	:	Fabricated out of 16 gauge continuously welded (sample to be approved)
23.	ELCB	:	Legrand
24.	A.C.B. Drawout type (LT)	:	L&T
25.	Telephone tag block	:	Chrono India Ltd.
26.	Relay	:	L&T
27.	MCCB	:	Legrand
28.	Meter	:	Jaipur,
29.	Light Fixture	:	Phillips.

30.	Ceiling Fans	:	Crompton
31.	Exhaust Fan	:	Crompton
32.	Electronic call bell / timer	:	Anchor
33.	TV Cable	:	Finolex.
34.	Volt meter & Ammeter (Digital)	:	Meco, AE
35.	Current Transformer	:	AE, Kappa
36.	L. T. Panel	:	L&T or fabricated by CPRI approved fabricator
37.	Data cabling & its Components	:	Systemax / Avaya
38.	Change over switch	:	Havells / HPL
39.	24 port jack Panel	:	Systemax
40.	9U / 12U / 15U Rack for jack panel	:	Systemax
41.	The above mentioned makes are given as general guidelines. The contractor to follow the makes mentioned in the schedule (B.O.Q) and as per best engineering practices.		

NOTE :-

- *Wherever more than one make are indicated, the contractor should use the material indicated first. Bank will permit to use the material indicated 2nd and hereafter only if the material indicated 1st is not available and / or the same is not suitable (colour, size, shape, texture) as per the site condition.*
- *In case the tenderer wish to verify the detailed specification of materials, workmanship etc. the same may be verified from the office of Bank before submission of the tender.*
- *Whether a product is equivalent or not, will be decided by the Engineer-in-Charge only.*

CENTRAL BANK OF INDIA

SPECIFICATIONS

General

A: MATERIALS

Materials shall be of the best-approved quality obtainable / available and they shall comply to the respective Bureau of Indian Standard Specifications.

Samples of all materials shall be got approved before placing order and the approved sample shall be deposited with Bank

In case of non-availability of materials in metric sizes, the nearest higher size in FPS units shall be provided with the prior approval of Bank for which neither extra will be paid nor shall any rebate be recovered.

If directed, materials shall be tested in any approved Testing Laboratory and the Test certificate in original shall be submitted to Bank and the entire charges of testing including charges for repeated tests if ordered shall be borne by the Tenderer.

It shall be obligatory for the tenderer to furnish Certificate, if demanded by Bank from the manufacturer or the material supplier that, the work has been carried out using their material and as per their recommendation.

All materials supplied by or through Bank OR other specialized firms if any, shall be properly stored and the tenderer shall be responsible for its safe custody until they are required on the works/until the completion of work.

Unless otherwise shown on the drawings or mentioned in the Schedule of Quantities or Specification the quality of materials, workmanship, dimensions etc., shall be as specified here-in-under.

All equipment and facilities for carrying out field tests on materials shall be provided by the tenderer without any extra cost.

S.1. WOOD

A. **Teak wood means** : Superior quality, Dandeli, Bellarsha, Chandrapur, Ghana, Malabar Teak seasoned, uniform colour, straight grain and shall be free from large, loose, dead knots, cracks, warps, twists, bends, borer holes, shakes, sap wood or any other defect. No individual knot shall be more than 1 cm in dia. The annual growth rings shall be 6 Nos. per 2.5 cm. The moisture content shall not exceed 12%.

B. **White Cedar means** : First class well-seasoned Indian White cedar wood uniform in color, straight grains, without any knots. It shall be free from large loose dead knots, cracks, shakes, warps, twists, bends, sapwood or defects of any kind. No individual hard and sound knot shall be more than 2.5 cm. in diameter and aggregate area of all knots shall not exceed 1% of the area of the piece. There shall not be less than 6 growth rings per 2.5 cm width. The moisture content does not exceed 12%.

C. The wood should be seasoned as per BIS 1141- 1958 or its latest edition.

D. **TIMBER** :

The moisture content does not exceed the following limits :

Timber for frames : 14%

ii) Timber for planking shutters : 12%

In measuring cross sectional dimensions of the Frame pieces tolerances up to 1.5 mm shall be followed for each planed surface.

E. **FIRST CLASS INDIAN TEAKWOOD** :

First class Indian Teakwood means best quality Burma Teakwood and well-seasoned. It shall be of uniform colour, **straight grains** and shall be free from large loose dead knots, cracks, shakes, warps, twists, bends, sapwood or defects of any kind. No individual hard and sound knot shall be more than 2.5 cm. in diameter and aggregate area of all knots shall not exceed 1% of the area of the piece. There shall not be less than 2-3 growth rings per 2.5 cm width.

S.2. PLYWOOD :

Strictly in accordance with IS 303: 1989

i) Grades : Plywood for general purposes shall be of the following two grades, depending upon the bond strength developed by the adhesive used for bonding the veneers:

Boiling water resistant or BWR Grade and

Moisture resistant of MR Grade

These shall be manufactured in accordance with relevant IS codes i.e. IS 303 : 1989. The grades shall conform to the general requirements given as per relevant IS codes i.e. IS 303 : 1989 (Third Revision)

Plywood for general purposes shall be classified into three types, namely, AA, AB and BB based on the quality of the two surfaces, namely, A and B in terms of general permissible defects. The type of plywood shall, therefore, be designated by the kind of surfaces of the panels. The better

quality surface shall be called 'face', and the opposite side shall be called 'back'. If the face and the back are of the same quality, they are not distinguished. This type of plywood shall denote first the quality of face followed by the quality of back. For example, Type AA shall have both surfaces of quality of A. Type AB shall have face of quality A and the back of quality B and Type BB shall have both the surfaces of quality B.

The quality requirement of each of the surfaces mentioned should be as per IS 303 : 1989, However, the maximum number of categories of defects, permitted on any one surface of the panel shall be restricted in accordance with the requirements.

MATERIALS:

Timber: Any species of timber may be used for plywood manufacture as per IS 303 : 1989 (Third Revision).

Adhesive: The adhesive used for bonding the veneers in different grades of plywood shall be the corresponding type of adhesive as specified in IS 848 : 1974.

Extenders conforming to IS 1508 : 1972 may be used with the synthetic resin adhesive (aminoresins). However, synthetic resin adhesives (aminoresin) when extended by more than 25 percent shall contain suitable preservative, chemicals in sufficient concentration to satisfy the mycological test.

MANUFACTURE :

The veneers for all the grades shall be either rotary cut or sliced. The veneers shall be sufficiently smooth to permit an even spread of adhesive. Treatment as specified below shall be given to the plywood either at the veneer stage or after converting the veneers into boards.

Treatment :

Veneers from non-durable species and sapwood of all species when used for plywood manufacture shall be soaked in 1.25 percent solution of boric acid or 1.9 percent solution of borax at a temperature of 85-90 degree centigrade for a period of 10-40 minutes depending upon the thickness of the veneers or the veneers may be dipped in 2 percent solution of boric acid or 3 percent borax solution for 2 minutes and block stacked at least for two hours. Alternatively, the veneers may be soaked at an ambient temperature in a mixture of 0.5 percent solution.

For BWR grade of plywood bonded with synthetic resin adhesive, the preservative may be given conveniently after boards come out of the press, while still hot or the treatment given to the veneers before bonding.

For BWR grade, fixed type of preservative may be used according to relevant IS code i.e. IS 5539 : 1966.

Assembly :

The thickness of all veneers shall be uniform within a tolerance of ± 5 percent. Corresponding veneers on either side of the central ply and those of face and back veneers shall be of species having similar physical and mechanical properties, such as, density, modulus of elasticity, shrinkage, etc. to ensure balanced construction.

Joints in Veneers:

Veneers that require to be joined to form a ply shall be spliced (edge jointed) before assembly. All joints shall be cut square. They may be taped on the face of the outer veneers in which case the tape shall be removed at a later stage, and metal clips or staples, if used, shall be removed. Perforated tapes may be used on the glue side of the veneers. In assembly, joints in veneers running in the same direction shall be staggered. End joints and butt joints shall not be permitted for any of the surfaces.

Grain Directions

Unless otherwise specified, and except in boards comprising an even number of plies, the direction of grain of the veneer in adjacent plies shall be at right angles to each other, and that of the outer plies shall run parallel to the longer side of the board. In boards comprising even number of plies, the grain of the centre pair shall follow the same direction. In adjacent plies, the grain should be at right angles to each other. However, a deviation not exceeding 10 degree may be permitted. In all cases, the grain on both faces of the assembly boards shall run in the same direction.

Scarf Joints:

When sizes larger than the available press sizes are required, scarf joints through the thickness of the board are permitted. All scarf joints shall be bonded with the same or a better adhesive than the one used for the manufacture of plywood, and shall be made with an inclination not greater than 1 in 12.

Permissible Defects:

Gaps in cores and cross-bands may be permitted except for 3 ply plywood provided the width of the gap does not exceed 1 mm in case of and 2 mm in case of plywood of more than 5 ply and provided such gaps, if more than one, shall be spaced not less than 80 mm away from each other

and are staggered not less than 50 mm away as between ply, the next ply having the same grain direction.

Splits in cores and cross-bands may be permitted to an extent of 2 per core or cross band.

Overlap shall not be permitted.

DIMENSIONS AND TOLERANCES :

The dimensions of plywood boards shall be as given in IS 12049 : 1987.

Thickness: Unless otherwise specified, thickness of plywood boards shall be as specified in Table. The thickness shall be measured up to one place of decimal.

Tolerances :

The following tolerances on the nominal sizes of finished boards shall be permissible:

	<u>Dimension</u>	<u>Tolerance</u>
a)	Length	+ 6mm 0mm
b)	Width	+ 3mm 0mm
c)	Thickness	
	1) Less than 6 mm	+/- 10%
	2) 6 mm and above	+/- 5%
d)	Squareness	0.2%
e)	Edge straightness	0.2%

Thickness of Plywood Boards as per IS 303 : 1989 (Third Revision)

WORKMANSHIP AND FINISH :

The plywood boards shall be of uniform thickness within the tolerance limits as per IS 303: 1989 (Third Revision).

The faces of plywood boards shall be reasonably smooth and face veneers shall be of reasonably uniform thickness. Slight sanding may be given to rough boards in order to make them reasonably smooth. The squareness and edge straightness of the board when measured according to the procedure given as per IS 303: 1989 (Third Revision).

S.3. BUILDERS HARDWARE

All hardware fittings and fixtures shall be made with structural properties to sustain safety and withstand strains and stresses to which they are normally subjected to such as opening and closing, wind pressure etc. The fittings shall generally conform to relevant specifications.

They shall be made true, clear, straight with sharply defined profiles and unless otherwise shown or specified with true smooth surfaces and edges, free from defects.

The metal shall be treated with finish as specified in the schedule of quantities.

S.4 GLASS

Glass shall be of specified thickness Indian plain glass of approved manufacturer without any waves, air holes etc.

S.5. BUTT HINGES

Hinges should be of any manufacturers with 14 gauge Brass body with stainless steel rod to be fitted with the shutter etc. with G.I. standard screws.

Brass hinges shall be manufactured by casting, unless it is specifically mentioned that the same shall be extruded type in which case these shall be manufactured from extruded sections. The size of butt hinges shall be taken as length of the hinge. The central pins/rod should be of stainless steel only.

S.6. TOWER BOLT

Tower bolts to be of anodized Aluminum powder coated heavy duty and are to be fitted with the shutter with powder coated screws and to be of M/s Jyothi make or equivalent.

S.7. LOCK

Cupboard lock should be M/s Godrej make.

Door lock should be cylindrical of M/s Godrej / YELE make with approved handles. The same lock as existing, wherever specified should be used.

S.8. PAINTING

SCOPE OF WORK : The work covered under these specifications consists furnishing the various types of paints and also the workmanship for these items, in strict compliance with these specifications, which are given in detail hereinafter with the item of schedule of quantities.

MATERIALS : Paints, oils, varnishes etc. of approved brand and manufacture shall be used. Ready mixed paints as received from the manufacture without any admixture shall be used.

If by any reason, thinning is necessary in case of ready mixed paint, the brand of thinner recommended by the manufacturer or as instructed by the Engineer-in-charge shall be used.

Approved paints, oils or varnishes shall be brought to the site of work by the contractor in their original containers in sealed condition. The material shall be brought in at a time in adequate quantities to suffice for the whole work or at least a fortnight's work. The materials shall be kept in the joint custody of the contractor and the Engineer-in-charge. The empties shall not be removed from the site of work, till the relevant item of work has been completed and permission obtained from the Engineer-in-charge.

COMMENCING WORK : Painting shall not be started until and unless the Engineer-in-charge has inspected the items of work to be painted, satisfied himself about their proper quality and given his approval to commence the painting work.

Painting, except the priming coat, shall generally be taken in hand after all other builder's work is practically finished.

The rooms should be thoroughly swept out and the entire building cleaned up, at least one day in advance before the paintwork is started.

PREPARATION OF SURFACE : The surface shall be thoroughly cleaned and dusted. All dirt, rust, scales, smoke and grease shall be thoroughly removed before painting is started. The prepared surface shall have received the approval of the Engineer-in-charge after inspection, before painting is commenced.

APPLICATION : Before pouring into smaller containers for use, the paint shall be stirred thoroughly in its containers. When applying also, the paint shall be continuously stirred in the smaller containers so that consistency is kept uniform.

The painting shall be laid on evenly and smoothly by means of crossing and laying off, the latter in the direction of the grain of wood. The crossing laying off, consists of covering the area with paint, brushing the surface hard for the first time and then brushing alternately in opposite directions two or three times and then finally brushing lightly in direction at right angles to the same. In this process, no brush marks shall be left after the laying off is finished. The full process of crossing and laying off, will constitute one coat.

Where so stipulated, the painting shall be done with spray, spray machine used may be (a) a high pressure (small air aperture) type of (b) a low pressure (large air gap) type, depending on the nature and location of work to be carried out. Skilled and experienced workmen shall be employed for this class of work. Paints used shall be brought to the requisite consistency by adding a suitable thinner.

Spraying should be done only when dry condition prevails.

Each coat shall be allowed to dry out thoroughly and rubbed smooth before the next coat is applied. This should be facilitated by thorough ventilation.

Each coat except the last coat, shall be lightly rubbed down with sand paper or fine pumice stone and cleaned of dust before the next coat is laid.

No left over paint shall be put back into the stock tins, when not in use, containers shall be kept properly closed.

No hair marks from the brush or clogging of paint puddles in the corners of panels, angles of mouldings etc. shall be left on the work.

In painting doors and windows, the putty round the glass panes must also be painted, but care must be taken to see that no paint stains etc. are left on the glass. Tops of shutters and surfaces in similar hidden locations shall not be left out while painting. Perspect covers of electrical switch boxes have to be painted from inside by removing them. Care shall be taken while removing them in position after painting with respective approved paints. In painting steel work, special care shall be taken while painting over bolts, nuts, rivets, overlaps etc.

The additional specifications for primer and other coats of paints shall be as accordance to the detailed specifications under the respective headings of IS codes.

BRUSHES AND CONTAINERS : After work, the brushes shall be completely cleaned of paint and linseed oil by rinsing with turpentine. A brush in which paint has dried up is ruined and shall on no account be used for painting work. The containers, when not in use, shall be closed, kept air tight and shall be kept at a place free from dust. When the paint has been used, the containers shall be washed with turpentine and wiped dry with soft clean cloth, so that they are clean, and can be used again.

MEASUREMENTS :

Painting, unless otherwise stated shall be measured by area in Sq.m. length and breadth shall be measured correct up to two places of decimal of a meter.

No deductions shall be made for opening not exceeding 0.05 Sq.m. and no addition shall be made for painting to the beading, mounding edges, jambs, soffits, sill's architraves, etc. of such small openings.

In measuring painting, varnishing, oiling etc. of joining and steel work etc. the co-efficient as in the following table shall be used to obtain the areas payable. The co-efficient shall be applied to the areas measured flat and not girthed in all cases.

In case of painting of door shutter with push plate in plastic/ laminate, deduction will be made for area of such laminates.

Table of Co-efficient to be applied over areas of different surfaces to get equivalent plain areas

Sr. No.	Description of work	Multiplying Co-efficients	Remarks
	<u>WOOD WORK – DOORS, WINDOWS ETC.</u>		
1.	Pannelled or framed and braced doors, windows etc.	} }	

2.	Ledged and battened or ledged, battened and braced, doors, windows etc.	} 1 1/8 (for or 1.125 each side) }	
3.	Flush doors etc.	}	
4.	Part panelled and part glazed or gauzed doors, windows etc.	} 1 (for each side)	
5.	Fully glazed or gazed doors, windows etc.	½ (for each or 0.50 side)	
6.	Fully venetioned or louvered doors, windows etc.	1 ½ (for each or 1.50 side)	
7.	Trellis (or Jaffri) work one way or two way.	2 (for painting all over)	
8.	Carved or enriched work	2 (for each side)	
9.	Weather boarding	1 1/8 (for each or 1.125 side)	
10.	Wood shingle roofing	1 1/8 (for each or 1.125 side)	
11.	Boarding with cover fillets and match boarding	11/20 (for each or 0.55 side)	
12.	Tile and slate battening	¾ (for painting or 0.75 overall)	
	STEEL WORK – DOORS, WINDOWS ETC.		
13.	Plain sheeted steel doors or windows	1 1/8 (for each or 1.125 side)	
14.	Fully glazed or gauzed steel doors steel doors & windows	½ (for each side) or 0.50	
15.	Part panelled and part glazed or gauzed doors and windows	1 (for each side)	
16.	Corrugate sheeted steel doors or windows.	1 ¼ (for each side) or 1.25	
17.	Collapsible gates	1 ½ (for painting or 1.50 all over)	
18.	Rolling shutters of inter locked laths	1 ¼ (for each side) or 1.25	
	GENERAL WORK :		
19.	Expanded metal, hard drawn steel wire fabric of approved quality grill work and gratings in Guard Bars, balustrades, railings & partitions.	1 (for painting all over)	
20.	Open palisade fencing and gates including standards, braces, rails stays etc. in timber or steel. Note: The height shall be taken from the bottom of the lowest rail, if the palisades do not go below it (or from the lower end of palisades, if they project below the lowest rail) upto the top of palisades but not upto the top of standards, if they are higher than the palisades.	1 (for painting all over)	

21.	Corrugated iron sheeting in roofs, side cladding etc.	1.14 (for each side)	
22.	A.C. corrugated sheeting in roofs, side cladding etc.	1.20 (for each side)	
23.	A.C. semi-corrugated sheeting in roofs, side cladding etc. or Nainital pattern using plain sheets.	1.10 (for each side)	
24.	Wire gauge shutters including painting of wire gauge	1 (for each side)	

Explanatory notes on the table of co-efficients.

- Where doors, windows etc. are of composite types other than those stated, different portion shall be measured separately with their appropriate co-efficients, the centre line of the common rail being taken as the dividing line between the two portions.
- Measurements for doors, windows etc. shall be taken for flat (and not girthed) over all including chowkats or frames, where provided. Where chowkats or frames are not provided, the shutter measurements shall be taken.
- Collapsible gates shall be measured for width from outside of gate in its expanded position and for height from bottom to top of channel verticals. No separate measurements shall be taken for the top and bottom guide rails, rollers, fittings etc.
- Rolling shutters of interlocked laths if provided shall be measured for the actual shutter width and the height from bottom of the opening to the centre of the shaft. No separate measurements shall be taken for painting guides and other exposed features within or outside the shutters area. The painting of top cover or hood shall however be measured separately. Co-efficients for sliding doors shall be the same as for normal types of doors in the table. Measurements shall be taken outside of shutters, and no separate measurements shall be taken for painting guides, rollers fittings etc.
- Measurements of painting of doors, windows, collapsible gates, rolling shutters etc. as above shall be deemed to include painting all iron fittings in the same or different shade for which no extra will be paid.
- The measurements as above shall be deemed to include also the painting of edges, blocks, cleats etc. for which no extra will be paid.
- The co-efficients for doors and windows shall apply irrespective of the size of frames and shutters members.
- When the two faces of a door, window etc. are to be treated with different specified finishes, measurable under separate items, the edges of frames and shutters shall be treated with the one

- or the other type of finish as ordered by the Engineer-in-charge, and measurement of this will be deemed to be included in the agreement of the face treated with that finish.
9. In the case where shutters are fixed on both faces of the frames, the measurement for the door frame and shutter on one face shall be taken in the manner already described, while the additional shutter on the other face will be measured for the shutter area only excluding the frame.
 10. Where shutters are provided with clearance at top or/and bottom such openings shall be deducted from the overall measurements and relevant co-efficients shall be applied to obtain the area payable.
 11. In case of trellis (or jaffri) work, the measurements shall include the painting of the frame member for which no separate measurements shall be taken. Trellis door or window shutters shall also be measured under trellis work.
 12. Wherever air conditioning grill, lighting, fixtures etc., in false ceiling are painted along with measurements shall be taken overall without deductions for opening in grills and no extra shall be paid for the grills. If grills fixtures etc. are not painted, area of fixtures or grill as measured flat (not girthed) shall be deducted when it exceeds 0.05 Sq.m. (individuals) where walls and ceiling are painted in separate colours, the junctions of two paints shall be brought down on the walls in a straight line by about 6 mm to 12 mm if so desired, if the junctions of walls and ceilings are not even. No extra shall be paid to the contractor on this account. Beading wherever provided shall not be measured separately but shall be deemed to be included in the area of false ceiling etc. measured flat (not girthed).
 13. For painting open palisade fencing and gates etc. the height shall be measured from the bottom of the lowest rail, if the palisades do not go below it, (or from the lower end of the palisades, if they project below the lowest rail), upto the top of rails or palisades whichever are higher, but not upto the top of standards when the later are higher than the top rails or the palisades.
 14. In the case of asbestos cement corrugated or semi-corrugated sheeting and iron corrugated sheeting in roofs, side cladding etc. the work shall be measured flat (not girthed) as fixed.
 15. For trusses, compound girders, stachions, lattice girders, and similar work, actual area will be measured in Sq.m. and no extra shall be paid for painting on bolt heads, nuts, washers etc. even when they are picked out in a different tint to the adjacent work.
 16. Painting of rain water, soil, waste, vent and water pipes, etc. **where the peripheral length is more than 10 cm.** shall be measured in running metres and multiply the same with the

perimeter of the particular diameter of the pipe concerned. Painting of specials such as bends, heads, branches, junctions shoes, etc. shall be included in the length and no separate measurements shall be taken for these or for painting brackets clamps etc.

17. Measurements of wall surfaces and wood and other works not referred to already shall be recorded as per actuals and opening exceeding 0.05 Sq.m. shall be deducted to get the net payable area length and breadth shall be measured correct upto two places of decimal of a metre and are so worked out shall be correct upto a two decimal of Sq.m.

18. In case the items of work requiring painting are inclusive of cost of painting the painting carried out shall not be measured separately.

Precautions : All furnitures, lightings, fixtures sanitary fittings, glazing, floors etc. shall be protected by covering and stains, smears, splashings, if any shall be removed and any damage done shall be made good by the contractor at his cost.

Rates : Rates shall include cost of all labour and materials involved on all the operations described above and in the particular specifications given under the several items.

General

A: MATERIALS

1. The priming coat for wood work, iron work or plastered surface shall be as specified in the description of the item.
2. The priming coat shall be prepared at the site of work or readymade primer of approved brand and manufacture shall be used.
3. Where primer for wood work is to be mixed at site, it shall be prepared from a mixture of red lead, white lead and double boiled linseed oil in the ratio of 0.7 Kg: 0.7 Kg : 1 Litre.
4. Where primer for steel work is to be mixed at site, it shall be prepared from a mixture of red lead, raw linseed oil and turpentine in the ratio of 2.8 Kg: 1 Litre: 1 Litre.
5. The specifications for the base vehicle and thinner for mixed on site, primers shall be as follows:-
 - a) **White Lead:** The White lead shall be pure and free from adulterants like barium sulphate and whiting. It shall conform to IS: 103-1950 as amended from time to time.
 - b) **Red lead :** This shall be in powder form and shall be pure and free from adulterants like brick dust etc. It shall conform to 102-1950 as amended from time to time.
 - c) **Raw linseed oil:** Raw linseed oil shall be lightly viscous but clear and of yellowish colour with light brown tinge. Its specific gravity at a temperature of 30 degree C shall be

between 0.923 and 0.928. The oil shall be of sufficiently matured quality, oil, turbid or thick, with acid and bitter taste and rancid odour and which remains sticky for a considerable time shall be rejected. The oil shall conform in all respects to IS :75-1950 as amended from time to time. The oil shall be of approved brand and manufacture.

- d) **Double boiled linseed oil** : This shall be more viscous than the raw oil, have a deeper colour and specific gravity between 0.931 and 0.945 at a temperature of 30 degree C. It shall dry with a glossy surface. It shall conform in all respect to IS: 77-1950 as amended from time to time. The oil shall be approved brand and manufacture.
- e) **Turpentine** : Mineral turpentine i.e. petroleum distillate which has the same rate of evaporation as vegetable turpentine (distillate product of Oleoresin of Conigers) shall be used. It shall have no grease or other residue when allowed to evaporate. It shall conform in all respect to IS: 83-1950 as amended from time to time.
6. All the above materials shall be of approved manufacture and brought to site in their original packings in sealed condition.
7. Primer containing lead shall not be used for painting iron/steel /wood work in the residential area.

Preparation of surface:

8. **Wood work** : The wood work to be painted shall be dry and free from moisture. The surface shall be thoroughly cleaned. All unevenness shall be rubbed down smooth with sand paper and shall be well dusted. Knots, if any shall be covered with preparation of red lead made by grinding red lead in water and mixing with strong glue size and used hot. The surface treated for knotting shall be dry before painting is applied. After the priming coat is applied, the holes and indentation on the surface shall be stopped with glazier's putty or wood putty (for specifications for glaziers putty and wood putty refer as mentioned here-in-before). Stopping shall be not be done before the priming coat is applied as the wood will absorb the oil in the stopping and the later is therefore to crack.
9. **Iron and steel work** : All rust and scales shall be removed by scraping or by brushing with steel wire brushes. Hard skin of oxide formed on the surface of wrought iron during rolling which becomes loose by rusting, shall be removed.
All dust and dirt shall be thoroughly wiped away from the surface. If the surface is wet, it shall be dried before priming coat is undertaken.

10. **Plastered Surface :** The surface shall ordinarily not be painted until it has dried completely. Trial patches of primer shall be laid at intervals and where drying is satisfactory, painting shall be taken in hand. Before primer is applied, holes and undulations, shall be filled up with plaster of paris and rubbed smooth.

Application : The primer shall be applied with brushes worked well into the surface and spread even and smooth. The painting shall be done by crossing and laying off as described here-in-before.

Other details : The specifications for “Painting (General)” shall hold good so far as they are applicable.

B. PAINTING WITH ORDINARY OR SUPERIOR QUALITY READY MIXED PAINT.

Painting with ordinary or superior quality ready mixed paint on new work :

1. **Paint:** Ordinary quality or superior quality ready mixed paints shall be of approved brand and manufacture and of the required shades. They shall conform in all respects to the relevant I.S. specifications.
2. **Preparation of surface :**
 - (a) **Wood Work :** The surface shall be cleaned and all unevenness removed as in para knots if visible, shall be covered with a preparation of red lead as stated in earlier paragraph. Holes and indentations on the surfaces shall be filled in with glazier’s putty or wood putty and rubbed smooth before painting is done. The surface should be thoroughly dry before painting.
 - b) **Iron and steel work :** The priming coat shall have dried up completely before painting is started. Rust and scaling shall be carefully removed by scraping or by brushing with steel wire brushes. All dust and dirt shall be carefully and thoroughly wiped away.
 - c) **Plastered Surface :** The priming coat shall have dried up completely before painting is started. All dust or dirt that has settled on the priming coat shall be thoroughly wiped away before painting is started.

Application : The specifications mentioned here-in-before shall hold good as far as applicable.

The number of coats to be applied will be as stipulated in the item. The painted surface shall present a uniform appearance and glossy finish, free from streaks, blisters etc.

Other details : The specifications for “Painting (General)” shall hold good so far as they are applicable.

C. PAINING WITH SUPERIOR QUALITY FLAT OIL READY MIXED PAINT :

1. **Paint :** Ordinary quality or superior quality ready mixed paint shall be of approved brand and manufacture and of the required shades. They shall conform in all respects to the relevant I.S. specifications.
2. **Preparation of surfaces :** This shall be as for painting mentioned here-in-before or as the case may be.
3. **Wood work :** The surface shall be cleaned and all unevenness removed as mentioned here-in-before. Knots if visible, shall be covered with a preparation of red lead as mentioned before. Holes and indentations of the surface shall be filled in with glazier’s putty or approved wood putty and rubbed smooth before painting is done. The surface should be thoroughly dry before painting.
4. **Iron and steel work :** The priming coat shall have dried up completely before painting is started. Rust and scaling shall be carefully removed by scrapping or by brushing with steel wire brushes. All dust and dirt shall be carefully and thoroughly wiped away.
5. **Plastered surface :** The priming coat shall have dried up completely before painting is started. All dust and dirt that has settled on the priming coat shall be carefully and thoroughly wiped away before painting is started.

Application : The specifications specified here-in-before shall hold good as far as possible.

The number of coats to be applied will be as stipulated in the item. The painted surface shall present a uniform appearance and glossy/semi glossy finish, as the case may be and free from streaks, blisters etc.

Other Details : The specifications for “Painting (General)” as mentioned before shall hold good in so far as they are applicable.

D. PAINING WITH SYNTHETIC ENAMEL PAINT/SEMI GLOSS PAINTING WITH SYNTHETIC ENAMEL PAINT ON NEW WORK

1. **Paint :** Synthetic enamel/semi-gloss paint of approved brand and manufacture and the required shade shall be used for the top coat and an undercoat of shade to match the top coat as recommended by the manufacturer shall be used.

- 2 **Preparation of surface :** This shall be as for painting with ordinary or superior quality ready mixed paint as mentioned here-in-before as the case may be.
- 3 **Application :** The number of coats including the under coat shall be as stipulated in the item.
- 4 **Under Coat :** One coat of the specified paint of shade suited to the shade of the top coat shall be applied and allowed to dry overnight. It shall be rubbed next day with the finest grade of wet abrasive paper to ensure a smooth and even surface free from brush marks and all loose particles dusted off. All the cracks, crevices, roughness etc. will be filled with approved putty as per manufacturer's recommendations.
- 5 **Top Coat :** Finishing coats of specified paint of the desired shade shall be applied after the under coat is thoroughly dry. Additional finishing coats shall be applied if found necessary to ensure a properly uniform semi glossy surface.

Other Details : The specifications for "Painting (General)" mentioned here-in before shall hold good as far as they are applicable.

E PAINING WITH ACRYLIC EMULSION PAINT/PLASTIC EMULSION PAINT

This shall be polyvinyl-based Acrylic emulsion paint manufactured by one on the reputed paint manufacturers and dispatched to the site in sealed containers.

1. **Primer :** A primer to be used for the painting with acrylic emulsion on cement concrete and plaster and plastered surfaces, A.C. sheets as also timber and metal surfaces (if necessary) shall be of approved base and as per recommendations of the manufacturers.
2. **Putty :** Plaster filler to be used for filling up (puttying) uneven surfaces, small cracks and holes etc. shall be of approved compound and as per recommendations of the manufacturers. No oil-based putty shall be used. The putty should be made from a mixture of whiting and plastic emulsion paint or as per manufacturer's recommendations.
3. **Finishing Coats :** All the finishing coats shall be of mat finish or any other finish as required by the Engineer-in-charge. Number of finishing coats shall be as specified in the item.

F: MODE OF MEASUREMENTS :

All the measurements for payment shall be taken on net surface areas actually painted, unless otherwise specified. Deduction will be made from the areas for fixtures, grills, ventilation outlets, electrical boxes and such obstruction not painted, if they are individually more than 0.05 Sq.mtr.

G: JOB REQUIREMENTS :

Note :

1) PAINTING OF PLASTERED SURFACE.

Acrylic emulsion paint is required to be provided on plastered and concrete surfaces in portions of the building. It may please be noted that Bank shall reserve the option to delete or increase quantities in full or part from the scope of contract during progress of work.

All wood surfaces are to be painted with semi glossy synthetic enamel paint with an approved primer. Primer of zinc chromate primer.

Zinc chromate primer supersedes wood primer mentioned earlier in the specifications.

All colours of paints shall be subjected to review and prior approval of Engineer-in-charge shall be taken before the application.

2) WHITE WASHING WITH LIME.

Scaffolding : Wherever scaffolding is necessary, it shall be erected on double supports tied together by horizontal pieces, over which scaffolding planks shall be fixed. No ballies, bamboos or planks shall rest on or through the surface which is being white washed.

Where ladders are used, pieces of old gunny bags shall be tied on their tops to avoid damage or scratches to walls.

For white washing the ceiling, proper stage scaffolding shall be erected.

Preparation of surface : Before new work is white washed the surface shall be thoroughly brushed free from mortar dropping and foreign matter.

In the case of old work, all loose pieces and scales shall be scrapped off and holes in plaster as well as patches of less than 50 sq.m. area shall be filled up with mortar of the same mix.

Where so specifically ordered by the Engineer-in-charge, the entire surface of old white wash shall be thoroughly removed by scrapping and this shall be paid for separately.

Preparation of lime wash : The wash shall be prepared from fresh stone white lime “Katani or equivalent”. The lime shall be thoroughly slaked on the spot, mixed and stirred with sufficient water to make a thin cream. This shall be allowed to stand for period of 24 hrs. and then shall be screened through a clean coarse cloth. 40 gm. of gum dissolved in hot water, shall be added to each 10 cubic decimetre of the cream. The approximate quantity of water to be added in making the cream will be 5 litres of water to one kg. of lime.

Indigo (Neel) up to 3 gm per kg of lime dissolved in water, shall then be added and wash stirred well. Water shall then be added at the rate of about 5 litre per kg. of lime to produce a milky solution.

Lime obtained as a by-product in the manufacture of acetylene may also be used for white washing purposes instead of white lime of katani quality. When such lime is used it shall be ensured that it is procured fresh in the form of a paste and used before it dries up. The lime shall be mixed with sufficient water to make it thin cream. The cream shall be screened through a clean coarse cloth and 40 gm. Gum dissolved in hot water added for each 10 cubic decimetre of the cream. More water shall be added at the rate of 5 litres per kg. of lime to produce a milky solution. When by product lime is used it is not necessary to add indigo (neel).

White Washing : The white wash shall be applied with brushes or by spray in the specified number of coats. The operation for each coat in case of brush application shall consist of a stroke of the brush given from the top down wards, another from the bottom upwards over the first stroke, and similarly one stroke horizontally from the right and another from the left before it dries.

Each coat shall be allowed to dry before the next one is applied. Further each coat shall be inspected and approved by the Engineer-in-charge before the subsequent coat is applied. No portion of the surface shall be left out initially to be patched up later on.

For new work, three or more coats shall be applied till the surface present a smooth and uniform finish through which the plaster does not show. The finished dry surface shall not show any signs of cracking and peeling nor shall it come off readily on the hand when rubbed.

For old work, after the surface has been prepared as described here in before a coat of white wash shall be applied over the patches and repairs. Then a single coat or two or more coats of white wash as stipulated in the description of the item shall be applied over the entire surface. The white washed surface should present a uniform finish through which the plaster patched do not appear.

Protective Measure : Door windows, floors, articles of furniture etc. and such other parts of the building not to be white washed shall be protected from being splashed upon. Splashing's and droppings, if any, shall be removed by the contractor at his own cost and

the surfaces cleaned. Damages if any to painted surfaces, furniture's, or fittings and fixtures etc. shall be recoverable from the contractor.

Measurements : White washing shall be measured in sq.m. length and breadth shall be measured correct to a cm.. All measurements for payment shall be taken on neat surface areas actually white washed, unless otherwise specified. Deduction will be made from the areas for fixtures, grills, ventilation outlets electrical boxes and such obstruction not painted if they are individually more than 0.05 Sq.m. Length and breadth shall be taken correct upto two places of decimal of a metre and areas so worked out shall be correct upto two places of decimals of a Sq.metre.

Corrugated surfaces shall be measured flat as fixed and the area so measured shall be increased by the following percentages to allow for the girthed area.

Corrugated asbestos cement sheets 20%

Semi-corrugated asbestos cement sheets 10%

The number of coats of each treatment shall be stated. The item shall include removing nails, making good holes, cracks, patches etc. not exceeding 0.1 Sq.m. each with materials similar in composition to the surface to be prepared.

Rate : The rate shall include the cost of all materials and labour involved in all the operations described above, i.e. all inclusive.

Colour Washing :In the case of colour washing materials colours, not affected by lime, shall be added to white wash with proper glue. No colour wash shall be done until a sample of the colour wash to the required tint or shade has been got approved from the Engineer-in-charge. The colour shall be of even tint or shade over the whole surface. If it is patchy or otherwise badly applied, it shall be redone by the contractor, at no extra cost to Bank.

For new work, the priming coat shall be of white wash lime or with whiting as specified in the description of the item. Three coats, shall then be applied on the entire surface till it represents a smooth and uniform finish. Each coat after applying shall be got approved from the Engineer-in-charge.

Other specifications as detailed for "White washing with lime" shall be applicable. Indigo (neel) shall however, not be added.

Dry Distempering :

Distemper : Dry distemper of approved brand/manufacture and colour and required shade shall be used. The dry distemper shall be stirred slowly in clean water using 0.6 litres of water per kg. of distemper or as specified by manufacturers. Warm water shall preferably be used. It shall be allowed to stand for at least 30 minutes before use. The mixture shall be invariably well stirred before and during use to maintain an even consistency.

Preparation of surface : This shall be as for painting mentioned here-in-before or as the case may be.

Application : In case of new work, the treatment shall consist of a priming coat followed by the application of two or more coats of distemper till the surface shows an even colour.

Priming coat : Priming coat of whiting shall be applied over the prepared surfaces. Priming coat shall be applied with whiting which shall be dissolved in sufficient quantity of warm water and thoroughly stirred to form a thin slurry which shall then be screened through a clean coarse cloth. Two kg. of gum and 0.4 kg. of copper sulphate dissolved separately in hot water shall be added for every cu.m. of the slurry which shall then be diluted with water to the consistency of milk so as to make wash ready for use. **No white washing coat shall be used as a priming coat for distemper.**

The application of each coat shall be as mentioned in the specifications for painting (General) mentioned here-in-before shall hold good and as far as they are applicable.

Oil Bound Distemper : a) Oil bound distemper of approved brand/manufacture and colour and required shade shall be used. The primer where used as on new work shall be cement primer or distemper primer as specified in the item. These shall be of the same manufacture as oil bound distemper.

Preparation of surfaces : Priming coat with cement primer or distemper primer shall only be applied.

Application : The cement primer or distemper primer shall be applied by brushing and not by spraying. Hurried priming of shall avoided. Particularly on absorbent surfaces. New plaster patches in old work before applying oil bound distemper shall be treated with cement primer/distemper primer. The surfaces shall be finished as uniformly as possible leaving no brush marks. It shall be allowed to dry for at least 48 hours before oil bound distemper is applied. Before applying distemper the surface shall be lightly sand papered to make it smooth for receiving the oil bound distemper, taking care not to rub out the priming cost. A time interval of at least 24 hours shall be allowed between consecutive coats to permit the

proper drying of the preceding coat. Two or more coats of distempers as are found necessary shall be applied over the priming coat to obtain an even shade.

Other Details : The specifications for “Painting (General)” mentioned here-in-before shall hold good as far as they are applicable.

Waterproofing Cement Paint :

Cement Based Paint : Cement based paints of approved manufacture, quality, shade and colour only shall be used.

Preparation of surface : The surface shall be thoroughly cleaned all mortar dropping, dirt, dust, algae, grease and other foreign matter by brushing and washing the surface shall be thoroughly wetted with clean water before the water proof cement paint is applied.

Water proof cement shall be mixed in such quantities as can be used up with in an hour of its mixing or otherwise the mixture will set and thicken affecting flow and finish. Water proof cement paint shall be mixed with water in two stages.

The first stage shall comprise of 2 parts of water proof cement paint and one part of water stirred thoroughly and allowed to stand for 5 minutes. Care shall be taken to add the water proof cement paint gradually to the water and not vice versa. The second stage shall comprise of adding further the part of water to the mix and stirring thoroughly to obtain liquid of workable and uniform consistency. In all cases manufacturer’s instructions shall be followed meticulously.

Application : The solution shall be applied on the clean and wetted surface with brushed or spraying machine. The solution shall be kept well stirred during the period of application. To avoid direct heat of the sun, during painting the cement based paint shall be applied on the surface which is on the shady side. Cement based paints shall not be applied on the surfaces already treated with white wash, colour wash, distemper dry or oil bound etc.

Other Details : The specifications for “Painting (General)” mentioned here-in-before shall hold good as far as they are applicable.

Bees Waxing or Polishing with Ready made Wax Polish :

- 1) Bees waxing or polishing with readymade wax polish on new work :

Materials : The polishing shall be done with bees waxing prepared locally or with ready-made wax polish of approved brand and manufacture, as stipulated in the description of item.

Where bees waxing is to be prepared locally, the following specifications for the same shall apply

Pure bees wax free from paraffin or stearine adulterants shall be used. Its specific gravity shall be 0.965 to 0.969 and melting point shall be 63 °C.

The polish shall be prepared from a mixture of bees wax, linseed oil, turpentine and varnish in the ration of 2:1 1/2:1 1/2 by weight.

The bees wax and boiled linseed oil shall be heated over a slow fire. When the wax is completely dissolved the mixture shall be cooled till it is just warm and turpentine and varnish added to it in the required proportions and the entire mixture shall be well stirred.

- 2) **Preparation of surface :** Preparation of surface will be as mentioned here-in-under 1:13:b with the exception that knotting, holes and cracks shall be stopped with a mixture of fine saw dust formed of the wood being treated, beaten up with sufficient bees wax to give to cohesion.
- 3) **Application :** The polish shall be applied evenly with a clean soft pad of cotton cloth in such a way that the surface is completely and fully covered. The surface is then rubbed continuously for half an hour.
When the surface is quite dry, a second coat shall be applied in the same manner and rubbed continuously for one hour or until the surface is dry.
The final coat shall then be applied and rubbed for two hours (more if necessary) until the surface has assumed a uniform gloss and is dry, showing no sign of stickiness. The final polish depends largely on the amount of rubbing which should be continuous and with uniform pressure, with frequent changes in the direction.
- 4) **Other Details :** The specifications for “Painting (General)” as mentioned here-in-before shall hold good as far as they are applicable.

1.13 **French Spirit Polishing :**

French spirit polishing including a coat of wood filler on new work:

- 1) **Polish :** Pure shellac varying from pale orange to lemon yellow colour, free from resin or dirt shall be dissolved in methylated spirit at the rate of 150 gm of shellac to 1 litre of spirit. Suitable pigment shall be added to get the required shade.
- 2) **Preparation of surface :** The surface shall be cleaned. All unevenness shall be rubbed down smooth with sand paper and well dusted. Knots if visible shall be covered with a preparation of red lead and glue size laid on, while hot. Holes and indentations on the surface shall be stopped with glazier’s putty. The surface shall then be given a coat of wood filler made by mixing whiting (ground chalk) in methylated spirit at the rate of 1.5 kg. of whiting per litre of spirit. The surface shall again be rubbed down perfectly smooth with glass paper and wiped clean.
- 3) **Application :** The number of coats of polish to be applied shall be as described in the item. A pad woolen cloth covered by a fine cloth shall be used to apply the polish. The pad shall be moistened with the polish and rubbed hard on the wood, in a series of overlapping circles applying the mixture sparingly but uniformly over the entire area to give an even

level surface. A trace of linseed oil on the face of the pad facilitates this operation. The surface shall be allowed to dry and the remaining coats applied in the same way. To finish off, the pad shall be covered with a fresh piece of clean fine cotton cloth, slightly damped with methylated spirit and rubbed lightly and quickly with circular motions. The finished surface shall have a uniform texture and high gloss.

- 4) **Measurements, Rate and other details :** These shall be as for “Painting (General)” mentioned here-in-before as far as they are applicable.

H : ANTI-TERMITE TREATMENT :

The anti-termite treatment should be carried out as per BIS 6313 (part II) 1971 or relevant latest revision and should be carried out through a member of Indian Pest Control Association having sufficient experience for carrying out similar job of magnitude proposed.

I: CEMENT :

The cement proposed to be used to be ordinary Portland Pezzolena cement confirming to BIS269 1976 manufactured by an Indian manufacturing Company such as L&T, ACC, Gujarat Ambuja or equivalent. The cement should be stored strictly as per the BIS specification.

J: WATER :

The water to be used should be portable water free from injurious amount of oil, acid, alkalies, salt, sugar organic materials or any other substances that may be deleterious to concrete or steel.

The recommended chemical ingredients should not be more than the relevant BIS specification (3025-1964).

K: BRICK WORK :

Scope of work : The work covered under this specification pertains to procurement of best quality locally available bricks and workmanship in building walls of various thickness, in strict compliance with the applicable specifications and applicable drawings.

Materials : Bricks shall be best quality locally available brick and should be approved by the Engineer-in-charge before incorporation in the work. Brick shall generally conform to I.S.1077-1957. In any case minimum-crushing strength shall not be less than 35 kg/cm² and water absorption shall not be more than 25%. The Engineer-in-charge shall have the right to reject bricks obtained from any field where the soil does not have an appreciable quantity of sulphates and chlorides. The specifications for cement, sand and water shall be same as laid out in BIS codes hereinafter. Bricks shall be thoroughly soaked in water before using till the bubbles cease to come up. No half or quarter brick shall be used except as closers. The closers shall be

horizontal and the walls shall be raised to plumb. The type of bond to be adopted will be decided by the Engineer-in-charge, but vertical joints shall be laid staggered.

Bricks to be laid with the “Frogs up side”.

Workmanship : Four courses of brick work with four joints should not exceed by more than 40 mm the same bricks piled one over the other without mortar.

Brick work shall not be raised more than 10 courses a day unless otherwise approved by the Engineer-in-charge. The brick work shall be kept wet for at least 7 days. Brick work shall be uniformly raised all round and no part shall be raised more than 1.0 metre above another at any time.

All joints shall be thoroughly flushed with mortar of mix as specified in the schedule of quantities, at every course. Care shall be taken to see that the bricks are bedded effectively and all joints completely filled to the full depth.

The joints of brick work to be plastered shall be raked out to a depth not less than 10 mm as the work proceeds. The surface of brick work shall be cleaned down and watered properly before the mortar sets.

No brick work shall be carried on during frosty weather except with the written permission of the Engineer-in-charge, who will give special direction as to the manner in which the work is to be performed. All brick work laid during the day, shall in seasons liable to frost, be properly covered up at night as directed by the Engineer-in-charge. Should any brickwork be damaged by frost the brick work shall, at the discretion of the Engineer-in-charge, be pulled down and made good, at the cost of the contractor.

Brick work shall be well watered three times a day for a week from the date of building and the work shall be protected from sun and rain.

Materials and workmanship for a half brick or brick on edge portion wall shall be as specified above. The wall shall be stiffened by R.C.C. stiffeners of size 115mm wide x 80 mm thickness to the full length of wall and shall be provided with 2 Nos. 6mm Φ M.S. bars as bottom reinforcement (only the M.S. reinforcement will be paid separately under relevant item).

The rates for brickwork shall include the cost of the following :-

Providing and fixing necessary single or double scaffolding and removing the same after the work is completed.

- i) Watering, curing, lifting of materials to any height.
- ii) Raking out of joints to receive plaster.

- iii) Forming slab seatings, cutting or leaving holes for lugs of windows, doors, sills, switch and plug boxes etc.
- iv) Making good all holes, chases, etc. to any depths due to conduit pipes, holdfasts, bolts, switch and plug boxes etc.
- v) Bedding and pointing precast lintels, sills, etc. in or on walls.

For purposes of measurements the thickness of one brick wall and over shall be taken in terms of multiples of half brick, or as stipulated in BOQ/herein below.

Mode of measurements :

- a) For brick work measured in cubic metres : The contract rate shall be for a unit of one cubic metre of brick masonry as actually done. 230 mm brick walls shall be taken as one brick thick. All openings in brick work for doors and windows and ventilators shall be deducted to get the net quantity of actual brick work done. Openings or chases required for PH or electrical insert less than 0.1 sq.mtr. and bearing of precast concrete members shall not be deducted. No separate payment shall be made for any extra work involved in making the above openings.
- b) For brick work measured in Sq. metres : Half brick thick masonry walls shall be measured sq. metres. All openings in brick work for doors and windows and ventilators shall be deducted to get the net quantity of actual brick work done. Openings or chases required for PH or Electric inserts less than 0.1 sq. mtr. and bearings of precast concrete members shall not be deducted. No separate payment shall be made for extra work involved in making the above openings or placement.

L: CONCRETE :

Strictly confirming to BIS 456 – 2000 for materials and workmanship.

NOTE : This specification is of the general type only and must be used in conjunction with the drawing of the particular item being made. Anything shown on the drawing and not in the specification must be compiled with, and vice versa and clarification on this should be sought from. The Engineer-in-Charge to remove doubts if any.

M: POLYMER MODIFIED CEMENT MORTAR TREATMENT FOR R.C.C. MEMBERS:

- Open the damaged portion of the R.C.C. slab, beam, column etc. and remove all the **loose concrete**, plastering etc. Clean the surface thoroughly with air blower followed by water jet. Expose the rusted reinforcement.

- Clean the rusted reinforcement thoroughly with wire brush and remove all the scales.
- Apply RUSTICIDE (or equivalent approved by the Engineer-in-Charge) to the reinforcement by a cotton swab. Allow to remain for 24 hours and then brush off any loose particles by dry paint brush.
- Apply two Protective coats made out of POLYALK FIXOPRIME or equivalent approved by the Engineer-in-Charge : CEMENT (1:1.5 by weight) to the concrete by brush.
- Apply a bond coat of POLYALK EP or equivalent approved by the Engineer-in-Charge: CEMENT (1: 1) by weight to the surface.
- Place polymer mortar by mixing:
 - 1 kg Polyalk EP
 - 5 kg Cement
 - 15 kg Quartz sand (10 kg passing 2mm and 5kg passing 1.5mm)
 - Water: 1 to 1.5 litres depending upon the consistency required.
- Place in thickness of 10-15 mm for one layer. Allow layer to set initially before applying next layer.
- In case the required thickness is more than 15mm, the mortar should be applied in 2 or more coats at an interval of 8 hours after application of bonding coat of POLYALK EP:CEMENT (1:1 by weight) by brush.
- Finish surface with trowel.
- Place polymer mortar as above depending on the thickness.
- Allow to air cure for 48 hours followed by water sprinkling for 3 days or curing by wet squeezed gunny bags.

NOTES

Cement : 53 grade

Sand : Quartz sand.

Mode of measurement: in sq. mtrs depending on the thickness (25mm 50mm).

N: **CEMENT GROUTING FOR R.C.C. MEMBERS**

- Drill holes atleast 12 mm in diameter inside the concrete surface. In case of columns of 9” thickness the holes should be atleast 4” in depth.
- Insert P.V.C.nozzles in the holes and fix the nozzles using POLYPLUG for immediate fixing. Grouting shall be done with a grout pump at a pressure of 2 kg/cm² with the following proportions:

Cement : 1 kg.
Monobond : 200 ml.
Water : 6 litres.
Microsilica : 200gms.
Entosh : 200 ml.

The holes which are made should be then sealed with polymer mortar.

NOTES:

Cement : 53 grade

Mode of measurement: per no.

O. WATERPROOFING OF TOILETS

- Cleaning the existing RCC slab with water jet,
- Exposing the cracks in “V” grooves by carefully chipping along with the grooves by about 30 mm without damaging the slab,
- Filling the grooves with non shrinkable cement polymer mixture, detecting the honey comb areas, fixing nozzles at a centre to centre distance of 300 mm for grouting, grouting non shrinkable grout made out of cement, air entering agents and clear water at a pressure of $2 \text{ Kg/cm}^2 - 3 \text{ Kg/cm}^2$, cutting the nozzles at the finished RCC level,
- The above should be air cured for 48 hrs and water cured for 3 days by water sprinkling or by wet gunny bags.
- The surface should be dampened and a slurry containing POLYALK WP: CEMENT (1:1.25 by weight) should be applied to damp surface by brush. Care should be taken to prepare so much slurry, which can be used within 30 minutes.
- After 24 hrs apply two more brush coats of slurry at intervals of 4 hrs.
- The coating thus formed should be air cured for 48 hours and then water cured for 3 days by sprinkling or wet gunny bags.
- Providing and applying water proof plaster 25mm thick, 1:4 mixed with liquid integral water proofing compound manufactured by Roffe/Cica or as approved by the Engineer-in-Charge in proportion 150 to 250 ml/50kg of cement finished with neat cement slurry.
- Stocking water in the water proofed surface for 24 hrs all complete as per manufacturer's specifications, standard practice and as directed by the Engineer-in-Charge.
- Curing is done for 14 days by making a pond.

NOTES:

Cement : 43 grade.

Sand : Washed River sand except for polymer mortar where quartz sand has to be used.

Mode of measurement: per sq.mtr.

Machine mixing for mortar.

Washed River shall used.

P. EXTERNAL PLASTER :

- Providing and applying water proof plaster 25mm thick, 1:4 for the 1st coat and 1:3 for the 2nd coat mixed with liquid integral water proofing compound in proportion of 100 ml of supercon or equivalent approved by Engineer-in-Charge 100 with 50 kg of cement.
- Before carrying out the plastering work the joint shall be racked, pointed with the cement mortar 1:4.
- The bonding coat made out of POLYALK EP: CEMENT (1:1. 25 by weight) should be applied to damp surface by brush. Care should be taken to prepare so much slurry, which can be used within 30 minutes.
- The base coat 12 – 18 mm thick to be made out of river sand (single screened passing through 5 mm) mixed with 100 ml supercon 100 for a bag of cement finished rough (roughened with wire brushes or by scratching diagonal lines 1.5 mm deep at 75 mm. centre both ways as directed)
- The finishing coat 8-12 mm thick to be made out of river sand and cement in proportion of 1:3 (double screened sand passing through 3 mm sieve) mixed with 100 ml supercon 100 for a bag of cement finished in smooth / rough / Sand face in line, level and in plumb.
- All complete including surface preparations scaffolding, curing, etc as per standard specification and as per directed by the Engineer in-Charge.
- Curing shall be done thoroughly for atleast 7 days.

NOTES:

Cement : 43 grade

Sand : Washed River sand

Mode of measurement: per sq.mtr.

MACHINE MIXING FOR MORTAR

All Sand to be washed

Q. INTERNAL PLASTER

- Providing and applying plaster 12 mm thick, 1:4 mixed with liquid integral water proofing compound in proportion of 100 ml of supercon 100 with 50 kg of cement.
- Before carrying out the plastering work the joint shall be racked, pointed with the cement mortar 1:4.
- The bonding coat made out of POLYALK EP or equivalent as approved by the Engineer-in-Charge: CEMENT (1:1. 25 by weight) should be applied to damp surface by brush. Care should be taken to prepare so much slurry, which can be used within 30 minutes.
- The plaster shall be in proper line, plumb level etc.
- All complete including surface preparations scaffolding, curing, etc as per standard specification and as per directed by the Engineer in-Charge.
- Curing shall be done thoroughly for atleast 7 days.

NOTES:

Cement : 43 grade

Sand : River sand thoroughly washed

Mode of measurement : per sq.mtr.

MACHINE MIXING FOR MORTAR

(THE ABOVE ARE THE GENERAL SPECIFICATION SHOULD BE READ IN CONJUNCTION WITH BILL OF QUANTITIES. THE BILL OF QUANTITIES MAY BE TAKEN AS THE BASIS FOR THE WORK TO BE EXECUTED. IN CASE OF ANY DISCREPANCY IN THE SPECIFICATION AND THE BILL OF QUANTITIES, THE BILL OF QUANTITIES MAY BE TAKEN AS FINAL IN CASE THE CONTRACTOR SHOULD CHECK UP WITH THE ENGINEER IN CHARGE WHO'S DECISION WILL BE FINAL.)

5.0 PAYMENT OF BILLS

- a. The following payment terms shall be made applicable :
 - i) **Material Advance:** As assessed by *Bank.*, 80% of the accepted quoted amount for the AC Machines delivered at site and after certification by *Bank*
 - ii) **Payment of final bill against Virtual Completion:** Balance and final payment of the tendered cost of the executed items shall be paid after installation, testing, commissioning/completion of the entire contract work and acceptance by *Bank*, against the final bill duly certified by the *Bank*.
 - iii) Low side work will be paid after completion of all work including ducting work and air balancing work.

Retention amount will be deducted @10% from each and every bill subject to the ceiling of total security deposit.

b. Final Bill

- i) The Tenderer shall submit the final bill within 30 days from the date of issue of virtual completion certificate with all relevant information and details.
- ii) *Bank* within 15 days of submission of final bill from the Tenderer, shall issue a certificate of payment against the final bill to Central bank of India, who shall upon date of receipt of the certificate, release the balance payment to the Tenderer after effecting all recoveries including advances, if any and payments against interim certificates.

c) Payment of AMC of A C Machines

AMC Contract: After expiry of Defect Liability Period, Work will commence and AMC charges shall be released quarterly basis after completion of service on submission of Bills along with Service Challans duly signed by authorized representative.

6.0 Acceptance of the Tender:

In general, the lowest Tenderer for a particular project will be awarded the work based on his rates quoted and the quantities of the work proposed to be executed for that project.

The rates quoted by the Tenderer should be valid for the contract period.

In the event if one particular Tenderer is emerging as the successful Tenderer for the entire project and the Tenderer expresses that he cannot carry out the jobs in the project within stipulated time mentioned in the tender and / or the *Bank* convinces that, the Tenderer shall not be able to execute more projects at the same time, the *Bank* may carry out the work through other Tenderer by rationalizing the amount. The following method would be adopted for finalizing the Tenderer:

- ☐ The other Tenderer may be advised to carry out the project at the quoted rates by the lowest Tenderer.

The following aspects will be considered while taking decision on award of multiple / repeat work.

- The Tenderer's ability to carry out multiple project both financial, technical supports, availability of labour force, tools and plants required for completion of the project.
- Adhering the time schedule in the first project.
- Adhering to the Bar chart.
- Co-ordination with various agencies involved in the project for the smooth implementation of the project.

The above terms and conditions are acceptable to us.

Signature of Tenderer:

Date:

Seal of Tenderer:

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