



भारतीय लघु उद्योग विकास बैंक

स्वावलंबन अकादमिक केन्द्र [पूर्ववर्ती सिडबी एमएसएमई अंतरराष्ट्रीय प्रशिक्षण संस्थान (सिटी)], प्लॉट सं. एल-3, जयदेव विहार, लोयोला स्कूल के सामने, जिम्ब स्क्वायर के पास, भुवनेश्वर – 751013, ओडिशा की मरम्मत, नवीनीकरण और निर्माण कार्य के लिए  
पूर्व अर्हता- सह- निविदा सूचना

निविदा सं.. /2020/1514/सिटी/परिसर दिनांक 14 नवंबर, 2019

जमा करने की आखिरी तारीख 5 दिसंबर 2019 को 1500 बजे तक

ग्राहक:

सहायक महाप्रबन्धक,

स्वावलंबन अकादमिक केन्द्र [पूर्ववर्ती सिडबी एमएसएमई अंतरराष्ट्रीय प्रशिक्षण संस्थान (सिटी)], प्लॉट सं. एल-3, जयदेव विहार, लोयोला स्कूल के सामने,  
जिम्ब स्क्वायर के पास, भुवनेश्वर - 751013, ओडिशा  
फोन नं: 0674-2304102

परामर्शदाता:

श्री स्मृतिस्निग्ध साहनी

मेसर्स. 3डी विजन,

प्लॉट सं-4704/5004, आदिमाता कॉलोनी, मंचेश्वररेलवे कॉलोनी

भुवनेश्वर-751017. फोन नं: 0674-2748127

ई-मेल-admin@3dvision.co.in

निविदा शुल्क: ₹ 500/- (गैर वापसी योग्य)



PRE QUALIFICATION cum TENDER FOR Repairs,  
Renovation & civil work at Swavalamban Academic Centre [ formerly SITI], Bhubaneswar, Odisha



SMALL INDUSTRIES DEVELOPMENT BANK OF INDIA

**PRE QUALIFICATION CUM TENDER NOTICE**

for Repairs, Renovation & civil work at Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square

Bhubaneswar - 751013, Odisha

**TENDER NO. /2020/1514/SITI/PREMISES DATED NOVEMBER 14, 2019**

**Last date of submission 5<sup>th</sup> December 2019 upto 1500 hrs.**

**CLIENT:**

The Astt. General Manager,  
Swavalamban Academic Centre[Formerly SIDBI MSME International Training Institute(SITI)]  
Plot No.L-3, Jayadev Vihar,  
Opp. Loyola School,  
Near XIMB Square,  
Bhubaneswar - 751013, Odisha,  
Phone No: 0674-2304102

**CONSULTANT:**

Sh. Smruti Snigdha Sahani  
M/s.3D Vision,  
Plot No-4704/5004, Adimata Colony, Mancheswar Railway colony,  
Bhubaneswar-751017. Phone No: 0674-2748127  
E-mail-admin@3dvision.co.in

**TENDER FEE: ` 500/- (non-refundable)**



**स्वावलंबन अकादमिक केन्द्र [पूर्ववर्ती सिडबी एमएसएमई अंतरराष्ट्रीय प्रशिक्षण संस्थान (सिटी)], प्लॉट सं. एल-3, जयदेव विहार, लोयोला स्कूल के सामने, जिम्ब स्कवायर के पास, भुवनेश्वर-751013, ओडिशा की मरम्मत, नवीनीकरण और निर्माण कार्य के लिए पूर्व अर्हता- सह- निविदा सूचना**

भारतीय लघु उद्योग विकास बैंक (सिडबी) अपने भुवनेश्वर, ओडिशा स्थित कार्यालय परिसर की मरम्मत/नवीनीकरण-कार्य हेतु भुवनेश्वर/कटक, ओडिशा स्थित प्रतिष्ठित, अनुभवी और सुस्थापित ठेकेदारों से दो अलग-अलग, सीलबंद लिफाफों में (जिनपर तकनीकी बोली और मूल्य बोली अंकित हो) सीलबंद निविदाएँ आमंत्रित करता है। निविदा दस्तावेज़ में तकनीकी और वाणिज्यिक बोलियाँ शामिल हैं, जिन्हें सिडबी की वेबसाइट [www.sidbi.in](http://www.sidbi.in) तथा [www.eprocure.gov.in](http://www.eprocure.gov.in) से डाउन लोड किया जा सकता है। इन्हें 4 दिसंबर 2019 को या उससे पहले सहायक महाप्रबन्धक-कार्यालय, स्वावलंबन अकादमिक केन्द्र [पूर्ववर्ती सिडबी एमएसएमई अंतरराष्ट्रीय प्रशिक्षण संस्थान (सिटी)], प्लॉट सं. एल-3, जयदेव विहार, लोयोला स्कूल के सामने, जिम्ब स्कवायर के पास, भुवनेश्वर-751013, ओडिशा फोन नं. 0674-2304102 तथा आर्किटेक्ट-कार्यालय मेसर्स.3डी विजन, प्लॉट सं-4704/5004, आदिमाता कॉलोनी, मंचेश्वर रेलवे कॉलोनी, भुवनेश्वर-751017. फोन नं: 0674-2748127 ई-मेल-[admin@3dvision.co.in](mailto:admin@3dvision.co.in) से भी लिया जा सकता है। पूरी तरह भरी हुई निविदा जमा करने की आखिरी तारीख 5 दिसंबर 2019 है।

सहायक महाप्रबन्धक  
स्वावलंबन अकादमिक केन्द्र  
भुवनेश्वर



PRE QUALIFICATION cum TENDER FOR Repairs,  
Renovation & civil work at Swavalamban Academic Centre [ formerly SITII], Bhubaneswar, Odisha

**PREQUALIFICATION CUM TENDER NOTICE FOR REPAIRS, RENOVATION & CIVIL WORK AT  
SWAVALAMBAN ACADEMIC CENTRE [FORMERLY SIDBI MSME INTERNATIONAL TRAINING  
INSTITUTE(SITI)], PLOT NO.L-3, JAYADEV VIHAR, OPP. LOYOLA SCHOOL, NEAR XIMB SQUARE  
BHUBANESWAR - 751013, ODISHA**

Small Industries Development Bank of India (SIDBI) invites **sealed tenders in two separate sealed covers** (Superscribed technical bid and price bid) from reputed, experienced and established contractors at Bhubaneswar / Cuttack , Odisha for execution of Repairs / Renovation works for its office premises located in Bhubaneswar , Odisha. Tender documents comprising Technical and Commercial Bids can be downloaded from SIDBI's web site [www.sidbi.in](http://www.sidbi.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). The same can also be obtained from office of **The Astt. General Manager, Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha**, Phone No: 0674-2304102 and Architect office at M/s.3D Vision, Plot No-4704/5004, Adimata Colony, Mancheswar Railway colony, Bhubaneswar-751017. Phone No: 0674-2748127, [E-mail-admin@3dvision.co.in](mailto:E-mail-admin@3dvision.co.in) **on or before 4<sup>th</sup> December, 2019**. The last date for submission of completed Tenders is **5<sup>th</sup> December, 2019**.

**Astt. General Manager  
Swavalamban Academic Centre  
Bhubaneswar**



## निविदा आमंत्रण सूचना

महोदय,

विषय: **स्वावलंबन अकादमिक केन्द्र [पूर्ववर्ती सिडबी एमएसएमई अंतरराष्ट्रीय प्रशिक्षण संस्थान (सिटी)], प्लॉट सं. एल-3, जयदेव विहार, लोयोला स्कूल के सामने, जिम्ब स्क्वायर के पास, भुवनेश्वर-751013, ओडिशा की मरम्मत, नवीनीकरण और निर्माण-कार्य**

उपर्युक्त कार्य के लिए एतद्वारा ओडिशा स्थित ऐसे ठेकेदारों से दो लिफाफा प्रणाली (तकनीकी एवं वाणिज्यिक बोली/ मूल्य बोली) के अंतर्गत सीलबंद निविदाएँ आमंत्रित की जाती हैं जिनका भुवनेश्वर/कटक में कार्यालय हो।

निविदा दस्तावेज़ में तकनीकी और वाणिज्यिक बोलियाँ हैं, जिन्हें सिडबी की वेबसाइट [www.sidbi.in](http://www.sidbi.in) तथा [www.eprocure.gov.in](http://www.eprocure.gov.in) से डाउनलोड किया जा सकता है। निविदा फॉर्म 14 नवम्बर 2019 से 4 दिसंबर 2019 के दौरान, कार्यालय-समय में सहायक महाप्रबन्धक-कार्यालय, **स्वावलंबन अकादमिक केन्द्र [पूर्ववर्ती सिडबी एमएसएमई अंतरराष्ट्रीय प्रशिक्षण संस्थान (सिटी)], प्लॉट सं. एल-3, जयदेव विहार, लोयोला स्कूल के सामने, जिम्ब स्क्वायर के पास, भुवनेश्वर-751013, ओडिशा**, फोन नं.: 0674-2304102 तथा आर्किटेक्ट कार्यालय मेसर्स.3डी विजन, प्लॉट सं-4704/5004, आदिमाता कॉलोनी, मंचेश्वर रेलवे कॉलोनी, भुवनेश्वर-751017. फोन नं: 0674-2748127 ई-मेल-[admin@3dvision.co.in](mailto:admin@3dvision.co.in) से भी लिए जा सकते हैं। पूरी तरह भरे हुए आवेदन जमा करने की आखिरी तारीख 5 दिसंबर 2019 है

निर्धारित प्ररूप में, सीलबंद पूर्व-अर्हता सह निविदा फॉर्म निम्नलिखित को संबोधित किए जाने चाहिए:

सहायक महाप्रबन्धक,

**स्वावलंबन अकादमिक केन्द्र**

**[पूर्ववर्ती सिडबी एमएसएमई अंतरराष्ट्रीय प्रशिक्षण संस्थान (सिटी)],**

**प्लॉट सं. एल-3, जयदेव विहार,**

**लोयोला स्कूल के सामने,**

**जिम्ब स्क्वायर के पास,**

**भुवनेश्वर-751013, ओडिशा**

फोन नं.: 0674-2304102



PRE QUALIFICATION cum TENDER FOR Repairs,  
Renovation & civil work at **Swavalamban Academic Centre [ formerly SITI], Bhubaneswar, Odisha**

## NOTICE INVITING TENDER

Dear Sir,

**Sub: Repairs, Renovation & civil work at Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI), Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha**

**Sealed Tenders** are hereby invited in Two cover system (Technical and Commercial bid / Price Bid) from Contractors having office in Odisha with office at Bhubaneswar / Cuttack for the captioned work.

Tender documents comprising Technical and Commercial Bids can be downloaded from SIDBI's web site [www.sidbi.in](http://www.sidbi.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). Tenders forms also will be available from office of **The Astd. General Manager, Swavalamban Academic Centre [ formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha**, Phone No: 0674-2304102 and Architect office at M/s.3D Vision, Plot No-4704/5004, Adimata Colony, Mancheswar Railway colony, Bhubaneswar-751017. Phone No: 0674-2748127, [E-mail-admin@3dvision.co.in](mailto:E-mail-admin@3dvision.co.in), from **14th November 2019 to 4<sup>th</sup> December , 2019** during working hours. The last date for submission of completed applications is **December 05, 2019**.

The sealed Prequalification cum Tender form in the prescribed format should be addressed to:

**The Astd. General Manager,  
Swavalamban Academic Centre  
[Formerly SIDBI MSME International Training Institute(SITI)],  
Plot No.L-3, Jayadev Vihar,  
Opp. Loyola School,  
Near XIMB Square,  
Bhubaneswar - 751013, Odisha,  
Phone No: 0674-2304102**



## **TENDER DOCUMENT - Part II**

### **NOTICE OF INVITATION OF TENDER**

SIDBI (Employer) invites applications for Pre-qualification cum Tender from reputed and established contractors for execution of Repairs / Renovation works (consisting of Civil, Plumbing and Electrical works) for its Office Premises located in Bhubaneswar. The estimated cost for the work is around **₹ 30 lacs.**

This document can also be downloaded from SIDBI's web site [www.sidbi.in](http://www.sidbi.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in).

- I. If any clarification is required by the tenderer, the same can be discussed during pre-bid meeting to be held on **November 26, 2019 at 11.30 am** at the office of **The Asst. General Manager, Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha.**
- II. Tenderers are advised to go through this tender document carefully as well as visit the Bank's office premises at Bhubaneswar and acquaint themselves both the site conditions and present condition of building and fittings, etc. before submission of tender.
- III. The duly filled and sealed tender documents including complete set of supporting documents in two separate envelopes as indicated below, may be submitted to the Asst. General Manager, **Swavalamban Academic Centre [formerly SITI], Bhubaneswar** at the address indicated above.

The main Envelope covering the above two envelopes shall be super scribed as **Tender for 'Repairs, Renovation & civil work at Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha'**.

#### **Envelope 1**

Complete set of Prequalification documents and Tender documents **Part I & Part II** as issued, duly filled in and signed by the tenderers on all pages along with all supporting documents, etc. and Earnest Money Deposit of ₹ 40,000/- in the form of Demand Draft (DD) in favour of SIDBI MSME INTERNATIONAL TRAINING INSTITUTE, Bhubaneswar; and also Tender fee of Rs.500/- ( non refundable) may be submitted in the form of Demand Draft (DD) in favour of SIDBI MSME INTERNATIONAL TRAINING INSTITUTE.



### **Envelope 2**

Complete set **Part-III** of Bill of Quantities (BoQ) or Price Bids duly filled and signed complete in all respect (conditions, if any mentioned in this envelop shall not be taken in to consideration for evaluation of tender). This sealed cover shall be clearly marked "**Price Bid**" and shall contain tender documents with price quoted in word and in figure duly filled with sign & seal of the company.

### **Rate quoted shall include cost of all :**

**i) Materials**, wastage of material, **Labour** for all leads and lifts, **Supervision**, setting out works, Machinery and equipment with its mobilization / demobilization, transportation charges, Clearing of the site both prior to commencement and after completion of work. Consumables such as, but not limited to petrol, oil, diesel, lubricants, drill bits, pipes, ropes etc. Construction facilities such as scaffolding, tarpaulins, wind break, etc. **Taxes**, duties, royalties, Octroi, entry tax, works contracts tax, and any other levies payable on all transactions, etc. Overheads / profits of Contractor for due performance of the work under this contract.

**ii)** All royalties, sales tax, toll tax, local tax, development charges, VAT tax and any other taxes including works contract tax etc., in respect of this contract and also any statutory variation in future towards above mentioned taxes & any other taxes if levied in future by statutory authority applicable to the contract shall be payable by the contractor and SIDBI will not entertain any claim whatsoever in this respect.

The rates will be "Excluding the goods service tax(GST)". The reimbursement against GST will be paid to the contractor as per Govt., rules & regulations. The proof of payment made by the contractor to the appropriate department shall be submitted to SIDBI, failing which appropriate amount shall be withheld on getting information/instruction from the concerned department.

### **REGULARITIES IN BID QUOTING:**

**a)** This is a Percentage Rate Tender, contractor shall fill up the Price Bid (BoQ) form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at BoQ, he will be willing to execute the work. The tender submitted shall be treated as invalid if: -

1. The contractor does not quote percentage above/ below on the total amount of tender or any section/ sub head of the tender.
2. The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/ sub head of the tender.
3. The percentage quoted above/below is different in figures & words on the total amount of tender or any section/ sub head of the tender.

The tender documents shall be written legibly and free from erasure, over writings or conversions of figures. Corrections unavoidable shall be made by crossing out, initialling, dating and rewriting. In case of any ambiguity or mistakes, the unit rates and prices written in words shall be considered as final.

**b)** Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. Any tender not bearing signature of the bidder & with seal of company on all the documents accompanying the tender is liable to be rejected.

The tenders by corporation shall be signed with legal name of the corporation followed by the name of the state of incorporation & by the signature & designation of the president, secretary or other person authorized to sign it in the matter with rubber seal of the company.





c) Each tender shall contain the name, residence & place of business of person or persons dealing the tender & shall be signed by the tenderer with his usual signature with seal of the company.

d) In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.

In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.

If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Tender Evaluation Committee and the lowest contractors those have quoted equal amount of their tenders.

In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.

Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.

**e) Submission of tender:**

- **The Contractors are to quote on percentage rate basis i.e. Below /above /at par in the attached schedule of rates in words and figures, otherwise tender will not be considered for evaluation.**
- No tender shall be Accepted / opened in any case received after due date and time of receipt of tender, irrespective of delay due to postal services or any other reasons, and the SITI shall not take any responsibility for late receipt of tender. Any tender received after the due date and time of submission shall not be considered.
- Any information, dossier or revised offer during or after the date of submission of tender shall not be accepted. The tender received after time & date specified in the tender notice will not be accepted. Once the offer is submitted by the tenderer before due date of submission, the tenderer shall not be allowed to submit revised / additional / modified offer even before due date and time of submission of tender. However, if the date of issue and / or submission of tender are extended by the SITI due to any reason the tenderer may submit, if he wishes, the revised / additional / modified offer before extended due date and time of submission.

Both the envelopes shall be submitted to **The Asstt. General Manager, Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha, Phone No: 0674-2304102** not later than 15.00 HRS on **5<sup>th</sup> December 2019**.

Envelop No-I will be opened on the same date i.e, **5<sup>th</sup> December 2019 at 15.30 HRS**, at the above address in presence of tenderer or their authorized representative who choose to be present. After evaluation of the technical document, to verify its substantial responsiveness to the tender conditions, technical specifications, etc the qualified tenderer will be informed about the date of **opening of Price Bid** at a later date.

SIDBI reserves the right to accept or reject any tender either in whole, or in part without assigning any reason for doing so.



**The tenderers may please note this-**

You are advised to ensure strict observance of commercial aspect of this tender and also of the following points-

- a. Time of completion-03 months for external work as well as internal painting which should be taken up simultaneously with external as directed by SIDBI.
- b. The onus of cooperation with other contractor for any disciplines in the services lie on the tenderer.
- c. It may be noted that all the documents that comprises the tender documents should be signed and sealed by the tenderer.
- d. No part of the Bill of quantities specification should be deleted / altered.
- e. Validity of offer-120 days from date of opening of BoQ/Price Bid.
- f. Liquidated damages for delay in completion of each work : 1% of the accepted tender value per week of delay subject to maximum of 10% of the accepted tender value.
- g. Defect liability period: 12 months from the date of completion as certified by SIDBI

The successful tenderer will enter into agreement with SIDBI as per standard format with 14 days on receipt of Letter of Intent from SIDBI.

A pre tender meeting shall be held **26<sup>th</sup> November, 2019** at 11.30 HRS at the office of **The Astt. General Manager, Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha, Phone No: 0674-2304102.**

The contractors are requested to attend the Pre-bid meeting to satisfy them regarding quarries and doubts, if any.

The Notice Inviting Tender (NIT) shall form a part of tender documents.

**Note:**

1. SIDBI reserves the right to change dates without assigning any reasons thereof. Intimation of the same shall be notified on the Bank's website
2. The tender is not transferable.
3. If a holiday is declared on the dates mentioned above, the tender shall be received / opened on the next working day at the same time specified above and at the same venue unless communicated otherwise.

Yours faithfully,  
Astt. General Manager,  
**Swavalamban Academic Centre**  
Bhubaneswar



**All the intending Agencies/Contractors are also requested to note following important provisions-**

1. SIDBI is governed by Public Procurement Policy for Micro and Small Enterprises (MSEs) as circulated by The Ministry of MSME, GoI.
2. These provisions shall be applicable to Micro and Small Enterprises (MSEs) registered with District Industries Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises (MSMEs).
3. If deemed fit, the Bank may procure minimum of 20% of the contract value of any goods or services from MSEs. Further, the Bank reserves the right to procure part work/services ( about 4% out of above 20%) to MSEs owned by SC and ST entrepreneurs, if found suitable. Provided, these MSEs quoting price within the price band of L1 +15% & bringing down their price to L1 price, in a situation where L1 price is from someone other than a MSEs. In case of more than one such MSEs, the supply shall be shared proportionately at the discretion of the Bank.
4. Further, such MSEs would also be entitled for tender sets free of cost and exemption from payment of earnest money deposit. In case of any issue on the subject matter, the MSE's may approach the tender inviting authority to resolve their grievances.
5. Agencies desirous of availing preference under above provisions should submit a copy of proof of Registration as MSEs/ and ownership of the same by SC/ST along with the tender/RFP.

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## PART I (Technical Bid)

**Sub: Tender for 'Repairs, Renovation & civil work at Swavalamban Academic Centre [formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha'.**

### INDEX

- Section A. Form of Tender
- Section B. Appendix
- Section C. Instructions to the tenderers
- Section D. General and Special Conditions of the Contract
- Section E. Technical Specifications
- Section F. Safety Code
- Annexure I Articles of Agreement
- Annexure II Proforma of Indemnity Bond
- Annexure III Proforma of Performance Guarantee



**SECTION A**

**(FORM OF TENDER)**

To  
The Astt. General Manager,  
Swavalamban Academic Centre  
[Formerly SIDBI MSME International Training Institute(SITI)]  
Plot No.L-3, Jayadev Vihar,  
Opp. Loyola School,  
Near XIMB Square,  
Bhubaneswar - 751013, Odisha,  
Phone No: 0674-2304102

**Sub: Tender for 'Repairs, Renovation & civil work at SIDBI's Training center at Bhubaneswar, Odisha'.**

Dear Sir,

Having examined the specifications and Schedule of Quantities relating to the works specified in the tender hereinafter set out and having visited and examined the site of the works as specified in the said Tender and having acquired the requisite information relating thereto as affecting the tender, I/we hereby offer to execute the works specified in the said Tender within the time specified in the said Tender at the rates mentioned in the attached Schedule of Quantities and in accordance in all respects with the specifications, quantities and instructions in writing referred to in Conditions of Tender, the Articles of Agreement, Conditions, Schedule of Quantities and Conditions of Contract and with such materials as are provided for, by and in all other respects in accordance with such conditions so far as they may be applicable.

Place : \_\_\_\_\_

(Signature)

Date: \_\_\_\_\_

Name of Agency/Contractor  
Address

**SECTION -B**

**APPENDIX**

The following appendix gives the figures for the relevant clauses of the tender

PERIOD OF EACH RUNNING BILL	MINIMUM 30 DAYS
DATE OF COMMENCEMENT	WITHIN 7 DAYS AFTER ISSUING THE ORDER / LOI
PROJECT COMPLETION PERIOD	3 MONTHS
VALUE OF INTERIM CERTIFICATE	₹ 10,00,000/= OR 30 DAYS
SECURITY DEPOSIT	₹ 40,000/-
RETENTION MONEY	10%
RETENTION AFTER VIRTUAL COMPLETION	50% IMMEDIATELY ON VIRTUAL COMPLETION AND BALANCE 50% AFTER 1 MONSOON
TENDER VALIDITY	6 MONTHS
WATER AND ELECTRICITY	SUPPLIED BY BANK



**SECTION C**

**INSTRUCTIONS FOR TENDERES**

**1. INVITATION OF TENDER.**

SMALL INDUSTRIES DEVELOPMENT BANK OF INDIA invite sealed tenders in two separate sealed covers for the repairs and renovation / works according to the specification and bill of quantities in the tender document herewith attached. Tender received after the hour and date so fixed will not be considered. Tender will be received up to 3.00 p.m. on the date so fixed for submission and specified in Tender notice. Tenderer's authorized representative may attend the tender opening at which time, the price and other relevant details will be read out. Tender opening time will be as given in Tender notice. However the bank reserve's the right to reject all the tenders or the lowest or any other tender without assigning any reason. Tenderer shall have no cause of action or claim against the Bank/Consultant for rejection of his tender. Bank/Consultant shall not be liable to return / reimburse the cost of the tender. Tender documents are not transferable. Any act or deed to influence the decision makers in the tender process by any tenderer, the Bank/consultant reserves the right to disqualify the tenderer.

**2. CLARIFICATIONS.**

Tenderer's shall carefully examine the Tender Documents and fully satisfy themselves as to all the conditions and matters which may in any way affect the work or the cost thereof. Should a Tenderer find discrepancies in or omission, from the specification or other document or should he be in doubt as to their meaning, or should he require any other clarification of the tender documents, he should at once address the query to the consultant.

Any query raised will be attended to by the consultants and replied in 2 days after pre bid meeting.

**3. TENDER SUBMISSION**

In the event of a contract, the tender and the documents attached there to shall be considered as forming part of the contract documents. The tenders shall be submitted in a sealed form in Envelopes issued with the tender. This envelope shall show on the outside, the name of the tenderer and the address. In addition the lower left hand corner of the envelope should indicate the contract number and the tender opening date. No tender shall be accepted unless it is properly sealed, tenderer's shall not be allowed to fill in or seal their tenders at the Consultants office. Tenderers are requested to present the tenders in good time on the stipulated day as to avoid rush at the closing hours.

Each copy of the tender shall be accompanied by the following documents :



- a) The tenderer's general program for the execution of the works.
- b) A chart showing estimated monthly labour force.
- c) A list of the major items of plant and machinery which the tenderer proposes to deploy on the site.
- d) A covering letter stating any other matter in relation to his tender which the tenderer considers should be drawn to the particular notice of the consultants. In addition, the original tender shall be accompanied by.
- e) The latest income tax return filed and copy of PAN Card.
- f) Signed copies of the addenda, if any,

The tenderer should quote in figures as well as in words, the amount quoted by it / him / them. Alteration if any, unless legibly attested by the tenderer with its /his / their full signature shall invalidate the tender/bid. The tenderer should duly sign the entire tender documents/bid personally. Further, the tenderer should ensure that the amounts are written legibly in such a way that manipulation is not possible. No blank space should be left.

Any conditional offer / tender shall not be considered. Further, any modification in the tender after opening date shall not be considered.

All pages and drawing given with the tender document are required to be submitted in its original binding duly filled and signed with an initial of the person signing the tender on every page of the said document. Failure to comply with this instruction may lead to disqualification of the tender.

#### **4. DEADLINE**

Tenders must be received by the clients on the day and at the address specified in the tender notice. The Bank /consultants may at their discretion, extend the deadline for submission of tenders by issuing an amendment in such case all right and obligation of the consultants and the tenderer's previously subject to original deadline shall thereafter be subjected to the new deadline as extended.

#### **5. TENDER GUARANTEE / EARNEST MONEY**

In the form of PO/DD payable at Bhubaneswar favouring SIDBI MSME INTERNATIONAL TRAINING INSTITUTE. If during the tender validity period the tenderer withdraws his tender or the successful tenderer fails to accept the contract within 10 calendar days after receiving notice of the award of contract and fails to submit initial Security deposit, the earnest money shall be forfeited and tenderer may disqualify himself for further works with the Bank/ consultants. After award has been finalized, the Earnest Money deposit will



be returned to the respective unsuccessful tenderer after 20 days. The successful tenderer's earnest money will be retained as a security deposit. No interest will be paid on any tender deposit.

## **6. SIGNATORY –**

Tenderer are requested to sign the tender form, annexure, all schedules, Forms, Addendum, if any, and the Bill of Quantities and Rates, etc. after making appropriate entries wherever necessary.

**If the tender is made by an Individual**, it shall be signed with his full name above his current address.

**If the tender is made by Proprietary firm**, it shall be signed by the Proprietor above his name and the name of his firm with its current address.

**If the tender is made by a firm in partnership**, it shall be signed by all the partners of the firm, above their full names and current addresses, or by a partner holding a power of attorney for the firm signing the tender in which case a certified copy of the power of attorney shall accompany the tender. A certified copy of the partnership deed, current address of the firm and the full name and the current address of all the partners of the firm shall also accompany the tender.

**If the tender is made by a Limited company or a Limited Corporation**, it shall be signed by a duly authorized person holding the power of attorney for signing the tender in which case a certified copy of the power of attorney shall accompany the tender. Such limited company or corporation may be required to furnish satisfactory evidence of its existence before the contract is awarded.

**If the tender is made by a joint venture of two or more firms as partners**, it shall comply with the following requirements:

(a) The tender, and in case of successful tender the Contract Agreement Form shall be signed so as to be legally binding on all partners.

(b) One of the partners shall be nominated as being in charge and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners,

(c) The Partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the contract including the payments shall be done exclusively with the partner in charge.

(d) All partners of the joint venture shall be liable jointly and severally for the execution of the contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under (b) above as well as in the tender form and the Contract Agreement Form,( In case of a successful tender) and



A copy of agreement into by the joint venture partners shall be submitted with the tender. All witnesses and sureties shall be persons of status and probity and their full names, occupations, and addresses shall be stated below their signatures. The tenders shall be accompanied by an attested copy of income tax certificate from the Income Tax officer of the circle for the previous year. All signatures in the tender documents shall be dated.

## **7. TENDER OPENING**

- (1) The bank will open the tenders, including submissions made in presence of tenderer's representatives who choose to attend at the place of opening as specified in tender notice. The tenderer's representatives who are present shall sign a register evidencing their attendance.
- (2) Tenders for which an acceptable notice of withdrawal has been submitted shall not be opened.
- (3) When opening a tender, the consultants will ascertain whether the tenderer has furnished a proper valid Earnest Money Deposit. Tenders received without the EMD shall be considered as non-responsive, shall not be opened and shall be rejected outright.
- (4) Bank/Consultants will open the envelopes/parcels/package of those tenders for which valid EMD have been received and examined whether the tenders are complete, whether the documents have been properly signed and whether the tenders are generally in order.
- (5) After opening the tenders the Bank will announce the tenderer's names, the Tender prices, written notifications of tender modifications and withdrawals, if any, and such other details as the consultants may consider appropriate.

## **8.VALIDITY**

The tender shall be kept valid for acceptance for a period of 120 calendar days from the day of opening of tenders.

## **9. CONFIDENTIALITY**

- (1) After opening of tenders, information relating to the examination, clarification, evaluation, and comparison of tenders and recommendations concerning the award of contract shall not be disclosed to the tenderers or other persons not officially concerned with such process until the award of the contract to the successful tenderer has been announced.
- (2) Any effort by a tenderer to influence the consultants personnel or representatives on matters relative to tenders under study in the process of examination, clarification, evaluation, and comparison of tenders, and in decisions concerning award of contract, may result in rejection of the tenderer's tender.



## **10. SIGNING OF CONTRACTS**

At the same time it notifies the successful bidder that his bid has been accepted, the consultants will send the bidder the forms of Agreement provided in bidding documents after the tenderer pays the Contract deposit (Initial Security Deposit) and the legal charges prevailing on that date, incorporating all agreements between the parties, within 10 days of receipt of the Form of Agreement, the successful bidder shall sign the form and return it to the Bank.

## **11. STAMP & LEGAL COSTS**

It shall be incumbent on the successful and Legal tenderer to pay stamp duty on the contract charges and legal charges for preparation of the contract agreement as ruling on the date of execution of the contract.

### **SECTION-D**

## **GENERAL AND SPECIAL CONDITIONS OF CONTRACT**

### **1. INTERPRETATIONS AND DEFINITIONS**

- i. Singular and Plural. Where the context so requires, words importing the singular shall also mean plural and vice versa.
  - ii. Headings and marginal notes to these conditions shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
  - iii. Words importing the masculine gender shall also include the feminine gender.
- (A). The "CLIENTS/EMPLOYER/BANK" shall mean Small Industries Development Bank of India (SIDBI), a Corporation established under the Small Industries Development Bank of India Act, 1989 (39 of 1989) and having its Head Office at 15, Ashok Marg, SIDBI TOWER, 15, Ashok Marg, Lucknow-226 001. Hereinafter called "Bank" (which expression, unless it be repugnant to the subject or context thereof, include its successors and assigns
- (B) The "CONSULTANTS" shall mean M/s. **3D VISION**. It shall mean the consulting engineers firm mentioned above, and operating through constituted nominee/ Power Attorney/ Associate or any officiating personal and also their successor from time to time.
- (C) The "CONTRACT" shall mean the tender and acceptance thereof and the formal agreement, if any, executed between the Contractor, client and Consultants together with the documents referred to therein including these conditions and appendices and any special conditions, the specifications, designs, drawings, price

schedules, bills of quantities and schedule of rates. All these documents taken together shall be deemed to form one contract and shall be complementary to one another.

- (D) The "CONTRACTOR" shall mean the individual or firm or company whether incorporated or not, undertaking the works and shall include legal representatives of such individuals or persons composing such firms or company as the case may be and permitted assigns of such individual or firm or company.
- (E) "CONTRACT SUM" means the sum named in the letter of acceptance including Physical contingencies subject to such addition thereto or deduction there from as may be made under the provisions hereinafter contained. In case of item rate contracts, the cost of the work arrived at after extension of the quantities shown in schedule of items/quantities by the item rates quoted by the tenderer for various items and summation of the extended cost of each item. Special discount/Rebate/Trade discount offered by the tenderer if any and accepted by the consultants. Additions or deletions that are accepted after opening of the tenders.
- (F) "SPECIFICATIONS" means the specifications referred to in the tender and any modifications thereof or any addition or deletion there to as may from time to time be furnished or approved in writing by the consultants.

## **2. QUALITY STANDARDS**

Specified reference in the specification to any material by trade name or catalogue number shall be construed as establishing a standard of quality and performance and not as limiting competition. Tenderer, in such cases, may at their option freely use any other product provided that it ensures an equal or higher quality than the standard mentioned and meets the specific approval of the Bank/consultant.

## **3. CONSULTANT'S DECISION**

The whole work shall be under the direction of the consultants whose decision shall be final, conclusive and binding on all parties to the contract on all questions relating to the construction and meaning of plans, working, drawings, sections and specifications connected with the work.

## **4. ASSIGNMENT**

The contractor shall not assign, transfer or attempt to assign / transfer the contract or any part thereof or any benefit or interest therein or there under otherwise then by a charge in favour of the contractor's bankers of any money due or to become due under this contract, without the prior written approval of the Bank/consultants. This implies that the interest, any due, benefits will be on Contractors name or his bankers name.

## **5. CONSULTANTS AUTHORITY**

### **CONSULTANTS TO HAVE POWER TO ISSUE FURTHER DRAWINGS OR INSTRUCTIONS**

The consultant shall have the power and authority from time to time or at all times to make and issue such further drawings and issue such further instructions and directions as may appear to him necessary or proper for the guidance of the contractor and the good and sufficient execution of the works according to terms of the specifications, and contractors shall receive, execute obey and be bound by the same, according to the true intent and meaning thereof, as fully and effectually as though the same had accompanied or had been mentioned or referred to in the specifications, and the consultant may also vary the levels or position of any work completed by the specifications, or may order any of the works contemplated thereby to be omitted, with or without the substitution of any other work in lieu thereof or may order any work or any portion of work executed or partially executed, to be removed, changed or altered, and, if needful, any order that other works shall be substituted instead hereof and difference of expenses occasioned by any such deviation or alteration so ordered and directed shall be added to or deducted from the amount of this contract.

No work which radically changes the original nature of the contract shall be ordered by the consultants and in event of any deviation being ordered which in the opinion of the contractor changes the original nature of the contract he shall nevertheless carry it out and the disagreement as to the nature of the work and rate to be paid therefore shall be resolved mutually. The time for completion of work, shall in the event of any deviations resulting in additional cost over the contract sum being ordered, be extended or reduced reasonably by the consultant. The consultant's decision in this case shall be final.

## **6. CONTRACTOR TO PRESERVE PEACE**

The contractor shall at all times during the progress of the work take all requisite precaution and use his best of endeavors for preventing any riotous or unlawful behavior by or amongst the workers and other employed on the works and for the preservation of peace and protection of inhabitants and the security of property in the neighborhood of the works. He shall also pay the charges of such special police (if any) as the consultant may deem necessary.

The contractor shall at his own cost arrange for safety provisions indicted elsewhere or as required by the consultants, in respect of all labour directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith. In case the contractor fails to make arrangements and provide necessary

facilities as aforesaid, the consultants shall be entitled to do so and recover the costs thereof from the contractor.

The contractor shall at his own cost, make all necessary provisions for health and safety of his work people. He shall when required by the consultant, provide proper latrines and urinals to the satisfaction of the consultants in such numbers and in such localities as he may directed , and shall take all steps necessary to compel his work people to resort to such latrines, and urinals, and shall dismiss from his employment and remove from the works any one detected obeying the calls of nature in any place other than the conveyances allotted for such purposes.

## **7.CHANGES IN CONSTITUTION**

Where the contractor is an individual or Hindu Undivided Family business the contract .Incase of any , eventually who shall be the person under whom the contract can be computed . Incase the contractor wishes to change the constitution any other form of organisation he / she shall intimate the consultant about such changes. Incase of partnership firm it is essential that all the partners nominate an individual or group of individual who shall be responsible to full fill the contract in on of any eventuality arriving out of death of any partner or dissolution of any partnership firm and it is deemed that such nominated person shall full fill all contracted requirements as per agreed terms and conditions. Incase of any change in constitution it is mandatory for the contractor to inform consultant about such change and there after submit a no objection letter from the managed partner such the changed constitution about the acceptance of the contract. Incase of private or limited company it is essential that the company nominate a person for to signing a contract who shall be responsible for the contract. In all such eventuality wherein person responsible to this contract is unable to function. Under no circumstances for any type of companies, a chance in constitution can not absolve the contractor his /her /their contractual obligations. Furnish the consultant inform about such nominee.

## **8.VOUCHERS**

The contractor when required by the consultants produce all quotations, invoices, vouchers and accounts or receipts etc. to prove that the materials supplied by him are in conformity to the specified No /requirement of the contract .

## **9. EMPLOYMENT OF LABOUR**

The contractor shall employ the labour in sufficient numbers to maintain the required rate of progress and quality to ensure workmanship, of the degree specified in the contract and to the satisfaction of the consultant. The contractor shall not employ in connection with the work any child who has not completed his 15th year of age. He shall also not employ an adolescent who has not completed his 18th year

unless he is certified fit for work as an adult as prescribed under clause (b) of Sub-section(2) of the factories Act,1948.

The contractor shall also see that all the provisions regarding employment of young persons covered by the Employment of Children Act,1933 and the factories act 1948 as amended from time to time shall be fully complied with. The contractor shall also see that the provisions set for under the Minimum Wages Act and Contract Regulation and Abolition Act 1970 with the Odisha Contract Labour (regulation & Abolition) Rules 1975 as amended from time to time are fully complied with by him and shall maintain necessary registers and records for payments of wages, overtime etc. made to his workmen as required by the Conciliation Office (Central), Ministry of Labour, Govt. of India, or such other authorised person appointed by the central or state govt.

The contractor shall make his own arrangement for the engagement of all labour local or otherwise. The contractor shall indemnify the client or any agent servant or employee of client for any lapses on the part of contractor on account of non compliance of the above referred acts. The contractor shall follow all rules, provisions, acts, as per prevalent rules of employment of Labour and indemnify the client from any lapses thereof.

#### **10. SPECIFICATIONS I.S.I.**

In case where no particular specifications is given for any article to be used under the contract, or working methodology the contractor shall get such specification prior to submission of tender from the consultant and in case such specification are not provide the relevant specification where one exists, of the Indian Standards Institution shall apply.

#### **11. COMMENCEMENT TIME**

The time allowed for execution for the works as specified in the contract documents shall be the essence of the contract. The execution of the works shall commence from the date specified by the consultant in writing. If the contractor fails or neglects to commence the execution of the work as aforesaid, the consultant shall without prejudice to any other right or remedy be at liberty to forfeit the security deposit absolutely. Extension of time shall be considered in the following situations

- (A) force majeure such as, acts of god, acts of public enemy, acts of Govt., floods, epidemics etc. or
- (B) Abnormally bad weather, or
- (B) Serious loss or damage by fire or,

- (C) Civil commotion, local combination of workmen, strike or lock out affecting any of the traders employed for the work.
- (E) Delay on part of the other contractor or tradesmen engaged by the consultants in executing work not forming part of the contract,
- (F) If case the hostel rooms are not made available for work for any reason
- (G) Any other reason which, in the absolute discretion of the consultant is beyond the contractor's control. Then upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to the consultants but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the consultants to proceed with the work. Request for extension of time, to be eligible for consideration shall be made by the contractor in writing within 14 (fourteen) days of the happening of the event causing delay.

The contractor may also, if practicable, indicate in such a request the period for which the extension is desired. In any such case the consultants may give a fair and reasonable extension of time for completion of work keeping in view the reason stated here above. However the extension will be final for the said reasons and no consideration can be allowed at a later date.
- (H) Mobilization period of labour+materials at site is 07 days from the date of award of contract, and it will be considered as grace period. Actual contract period will be accounted from 7 days after the date of work order / Letter of Intent issued by the Bank to the Contractor

## **12. MATERIAL**

All material to be provided by the contractor and the contractor shall, at his own expense, provide all material required for the works. All materials to be provided by the contractor shall be in conformity with the specifications laid down in the contract and the contractor shall, if requested by the consultants, furnish proof to the satisfaction of the consultant that the materials so comply. The contractor shall, at his own expense and without delay, supply to the consultants samples of materials proposed to be used in the work. After testing the consultants will inform the contractor whether the samples are approved or not. If the samples are not approved the contractor will supply fresh samples for approval. The consultants shall have full powers to remove any or all



of the materials brought to site by the contractor which are not in accordance with the contract specifications or which do not confirm in character or quality to the samples approved by him. The consultants has the power to arrange for the removal of the same at the cost and risk of the contractor. All charges on account of octroi, sales tax royalty and any other taxes/duties on material obtained for the works from any source shall be borne by the contractor. The consultants reserve the power to get any material tested for quality and consistency at the cost of the contractor and the contractor is bound to provide all facilities which the consultants may require for the same. All expenses towards these tests and the cost of materials required for these tests shall be borne by the contractor.

### **13. INSPECTION AND APPROVAL**

All works embracing more than one process shall be subject to examination and approval at each stage thereof and the contractor shall give due notice to the consultants when each stage is completed. In default of such notice, the consultant shall be entitled to appraise the quality and extent thereof. No work shall be covered up or put out of view without the approval of the consultant and the contractor shall afford full opportunity for examination and measurement of any work which is about to be covered up or out of view and for examination of foundation before permanent work is placed thereon. The contractor shall give due notice to the consultants whenever any such work or foundation is ready for examination and the consultants shall without unreasonable delay, unless he considers it necessary and informs the contractor, in writing accordingly, attend for the purpose of examining such foundations.

### **14. RECTIFICATION LIABILITY**

**LIABILITY FOR DEFECTS OR IMPERFECTIONS AND RECTIFICATION THEREOF** If it shall appear to the consultant/the client at any time during construction or reconstruction or during the defects liability period, that any work has been executed with unsound imperfect or unskillful workmanship or that any material or article provided by the contractor for execution of the work is unsound or of a quality inferior to that contracted for, or otherwise, not in accordance with the contract, or that any defect, shrinkage or other faults have appeared in the work arising out of defective or improper material or workmanship, the contractor shall upon receipt of notice from the consultant shall forthwith rectify or remove or reconstruct the said work or material so specified and provide for proper material/work at his own expense within the specified period of time to the fullest satisfaction of the consultants.

In case the contractor fails to do so the consultant /the client is free to rectify the same at the risk and cost of the contractor. All splashes of white wash, paint etc. shall be removed by the contractor without waiting for the consultant to inform him about the same.



The consultant reserve to decide the cost and rate at which this shall be charged to the contractor and recovered from the contractors bill/SD/ or demand the contractor to reimburse the same.

#### **15.DEFECTS LIABILITY PERIOD**

The contractor shall be responsible to make good and remedy at his own expenses within such period as may be stipulated by the consultants any defects which may develop or be noticed before the expiry date of last payment which is one year after the approval /certification of final bill or one year after date of completion whichever is earlier of the period and intimation of which has been sent to the contractor within 7 days of expiry of the said period by letter sent by hand delivery or by registered post.

#### **16. PAYMENT TERMS**

The Contractor will submit interim running account bills every month or as and when he completes Rupees ten Lakhs worth of work. All bills will be submitted in the format as would be given by the consultant. Three copies would be submitted by the contractor to the consultant. The consultant will then verify and certify the bill for its accuracy and validity.

Two copies would then be forwarded by the consultant to the Bank duly certified for payment. One copy would be returned to the contractor for his records. The Bank's office reserves the right to consult the consultant for details and clarifications as may be required. After this certification the Bank's office will release the contractor's payment.

This procedure being long, the contractor should take note of the possibility of delay in release of payment. However in no case bill payment will be delayed beyond 15 days of certification by the consultant. In the event of possibility of such a delay, the contractor will be paid 70% (Seventy percent) of the certified amount at the end of 15 days.

The balance will be paid after due clarifications. The consultant shall not under any circumstances relax these terms of payment and will not consider any alternative payment terms. Tenderer's should therefore in their own interest note this provision to avoid rejection of their tenders.

#### **17. RECORDS AND MEASUREMENTS**

The consultant shall accept as otherwise stated and determined by measurement the value of work in accordance with the contract. All items having financial value shall be recorded after proper measurement in a format so prescribed by the consultants.

Measurement shall be taken jointly by the consultant and authorised representative of the contractor and along with the clients representative . Before taking the measurement the consultant will verify and ascertain the completion of the same. In case of defects or improper workmanship the same will not be measured. The contractor shall without any extra charge provide all assistance with every appliance and other necessary thing for measurement. Measurements shall be recorded and signed by all the parties on the site after completion of measurement. Measurements wherever specifically specified shall be in accordance with the procedure set forth in the schedule of Rates/ Specifications not with standing any provision in the relevant standard method of measurement. In case of items not specified in the schedule measurements shall be in accordance with the relevant standard/methods issued by the I.S.I.

All the extra item rates to have analyzed & approved before bill is prepared. If rates are not approved earlier, rate analysis must be sent alongwith bill. Every bill must have relevant detailed measurement sheets with page number duly signed jointly at site itself. However, in absence of client at that particular pre-appointed date of joint measurements, consultant will judiciously take care on his behalf.

#### **18. MINIMUM BILLING**

Schedule of minimum of Rs.10,00,000/- worth of work shall be done every month from the date of award. In no case shall the consultant give permission for time extension. Unless for reason or specified elsewhere.

#### **19. CLAIMS, DISPUTE, DELAYED PAYMENTS**

Under normal circumstances the client shall make full payment to the contractor for all certified bills within 15 days of certification .In case there are disputes or clarifications that are required by the client pertaining the certification made will be sought by the client within 7 days of submission of the certificate. Under all circumstance of 70% of the certified bill will be paid by the client within 15 days.

#### **20. COMPLETION CERTIFICATE**

As soon as the work is completed, the contractor shall give notice of such completion to the consultants and within 30 (Thirty) days of receipt of such notice the consultants shall inspect the works and shall furnish the contractor with a certificate of completion indicating (a) the date of completion (b)the defects to be rectified by the contractor (c)and/or the items for which payments shall be made at reduced rates. When separate period of completion have been specified for the items or group of items, the consultants shall issue separate completion certificates for such items or group of items.

No certificate of completion shall be issued, nor the work be considered to be complete till the contractor shall have removed from the premises on which the work has been executed, all scaffolding, sheds, and surplus materials, except such as rectification of defects, rubbish and all huts and sanitary arrangements required for his workers on the site in connection with the execution of work, shall have been erected by the contractor of the workmen and cleaned all dirt from all parts of Building(s) in, upon or on which the work has been executed of which he may have had possession for the purpose of execution thereof and cleaned floors, gutters, and drains, eased doors and sashes, oiled locks and fastening, labeled the keys clearly and handed them over to the consultants and made the whole premises fit for immediate occupation or use to the satisfaction of the consultants. If the contractor shall fail to comply with any of the requirement of this condition as aforesaid, on or before the date of completion of the works, the consultants may at the expenses of the contractor fulfill such requirements and dispose off all surplus material and rubbish etc. as he thinks fit and the contractor shall have no claims in respect to any such materials. If the expense of fulfilling such requirement is more than the amount realised out of sale/ disposal as aforesaid, the, contractor shall immediately on demand pay such excess.

## **21. PAYMENT OF FINAL BILL**

The final bill will be submitted within two weeks of physical completion of the work. No further claims or bills shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived. Payments of those items of the bill in respect of which there is no dispute, for quantities and rates as approved by the contract and subsequently by the Bank and the consultants shall be made within 15 days of time by the client after proper verification and certification by the consultant. In case payment is not made by the client within 90 days interest shall be payable to the contractor at a max. rate of 1% per month of unpaid amount. The contractor shall submit with the final bill a list of payment received by him from the commencement of contract for verification and confirmation by the treasurer/financial authority of the client.

All payments withheld due to dispute shall be settled by concerned parties providing proper verification and justification for their claims. The said dispute shall be settled absolutely within 90 days of the final bill by both parties or with the help of the consultants. In no case shall the payment be withheld beyond 90 days of the final bill. In case payment is not made by the client within 90 days interest shall be payable at a max. rate of 1% of unpaid amount.

## **22. EXTRA ITEMS AND PENALTY FOR OPERATING NON APPROVED ITEMS OF WORKS**

Contractor shall not execute any extra item of work without the approval of the client / consultant. Rates for extra items shall be arrived as under in order of preference-

1. Based on similar item quoted by the contractor on prorated basis
2. Based on CPWD DSR-2018 with 15% (percentage above) as per prevailing contracts.
3. Based on rate analysis as per CPWD procedure considering actual cost of material, taxes, labour and contractors profit and overheads
4. The penalty shall be imposed on contractor for operating non scheduled items of work. This penalty shall be min 50% of the value of the work done or the cost of undoing the same whichever is higher. Consultant's decision is final of binds on both client /contractor. It is essential that the contractor seeks a written permission from the consultant before operating any non schedule item of work.

### **23.CANCELLATION FULL/PART**

If the contractor commits default in complying with any of the terms and conditions of contract and does not remedy it within seven (7) days after a notice in writing is given to him by the consultants. On behalf of the client the Consultant can issue a show cause notice to the contractor specifying the time limit within which contractor has to rectify the default failing which the client can terminate the contract full or part as deemed essential on recommendation of the Consultant.

### **24. DISPUTES / DIFFERENCES**

All disputes or differences whatsoever which shall at any time i.e. during the execution of the contract or maintenance thereof till total completion of the contract, between the parties hereto concerning the works shall be effected by consultants and their decisions shall be binding upon both the parties.

### **25.INCOME TAX**

The Bank shall deduct Income tax at source so decided by the Govt. at the time of making the payment and issue the corresponding certificates to the contractor for the payments made to him from time to time.

### **26.NOTICES TO LOCAL BODIES**

The contractor shall comply with and obtain all clearances/permissions from all concerned authorities/ departments to ensure smooth functioning of the work under contract and indemnify the clients and the consultants of any claim that may arise thereof.

## **27. GOVT. TAX**

All charges on account of octroi terminal or sales tax, Service tax, VAT and other duties on material obtained for the work or for labour involved in the execution of works contract shall be borne by the contractor.

## **28.SAFETY PROVISIONS**

The contractor shall take enough safety precautions for material handling, scaffolding and ladder works, mechanical devices, electrical devices, cranes, machinery, Bank properties such as common toilets, Trees & plants, labour for all heights and depths of works as per standards practices and applicable rules and regulations. Special care is to be ensured for handling and working with construction admixtures. The contractor shall ensure that all the suggested provisions for safety are followed into to as required by the manufacturer. The contractor shall indemnify the client of all liabilities arising out of such non compliance and defects, accident liability during working. It is hereby understood and agreed that all liability arising out of any accident at site will be the responsibility of the contractor. In no case shall the contractor endanger the clients by unsafe working methods.

## **29.INSURANCE**

The contractor will obtain contractor all risk policy (CAR Policy) for all workmen from commencement to completion. He will take full responsibility thereof. The said insurance shall be in the names of the contractors and the contractors shall deposit such insurance policies fully paid up with the Bank and pay due premium from time to time and furnish the said receipt to the clients / consultants.

## **30. WATER & POWER SUPPLY**

Water for all works will be the responsibility of the Contractor. The responsibility of storage and distribution will be the sole responsibility of the contractor. In case the contractor wishes to take special connection from Municipal Authorities, he shall do so at his cost and risk without any liability to the Bank. All taxes/charges so required to be paid to the authorities will be borne by the contractor. If water/Electricity supply is given by Bank to the contractor for operating any equipment and machines. It will be on chargeable basis.. Only single phase power supply will be given to the contractor for lighting purpose only after due permission has been taken for work after sunset. The electric charges shall be borne by the contractor only.

## **31. SPECIFICATION OF WORK**

The work under this tender is to be carried out as per the Technical Specifications included in the tender. Where these specifications are insufficient, relevant clarifications

shall be sought from the consultant else the relevant Indian Standard Specifications shall apply.

### **32. CLEARING OF SITE ON COMPLETION**

Wherever any pavements, trees, shrubs, fencing poles or other such items and structures have been damaged, removed or disturbed during the course of the work, the same shall be replaced or repaired after completion of work and restored to a condition equal to before commencement of work, the contractors furnishing all labour and materials incidental thereto. On completion of the whole of the work the contractors shall clear the site of all rubbish, building materials, debris, excavated stuff and restore the work site to its original condition neat, tidy clean to the satisfaction of the consultant and hand over the same to the consultant. No extra payment shall be made to the contractors for these works and the rates for respective items in the 'Bill of Quantities and Rates' shall be deemed to have covered the same. While doing internal repairs, removal, moving, shifting of furniture, fixtures, electrical installations etc. do not come under the preview of this clause. The contractor shall however provide labour if so required for the same as per rate quoted for labour supply in the bill of quantities. Separate account shall be maintained by the contractor when such labour is provided on request by the client and his signature taken for the unit of labour supplied.

### **33. LIABILITY PERIOD FOR WATER PROOFING WORKS**

Tenderers should note that the guarantee period for toilet, Terrace water proofing works with Chhajja and Balcony tops will be Ten (10) years and for total external plastering work will be five year from the dates of completion of the whole works.

The contractor will give 5 years guarantee for external painting work for fading of colour, paint peeling, fungus etc. in case of major painting work and 10 years guarantee for the water tightness on stamp paper of request amount as per format enclosed.

### **34. LOCATION FOR SITE OFFICE WATER TANK STORAGE GODOWNS, ETC.**

The contractor will be provided free open space for constructing temporary site office, storage etc. Due care will be taken by the contractor to ensure that no breeding of insects, pest and mosquitoes taken place in the building and no damage is done to the office premises.

### **35. EARNEST MONEY DEPOSIT:**

Tenderers shall deposit with the Bank by Demand Draft in favour of SIDBI MSME INTERNATIONAL TRAINING INSTITUTE, BHUBANESWAR. a sum of Rs.40,000/- by way of Earnest Money Deposit along with the tender. This amount will not carry any interest. In case during the validity period of tender, if the contractor fails to commence the work or



did not fulfill the various contract conditions, this amount will be forfeited by the Bank. As soon as a party is selected for award, EMD of all unsuccessful parties shall be refunded.

**36. TIME LIMIT FOR COMPLETION OF JOB :**

TIME LIMIT for the contract under quote is 03 months. All items of work will be taken up periodically as per instruction from the consultants. As the proposed work is to be carried out in the bank's training, contractor will have to take up the work without causing inconvenience to the training center function.

**37. TESTINGS ON COMPLETION OF WORK:**

All the Non Destructive Testing such as 1. Ultra Pulse velocity Test 2. Rebound Hammer Test. of the repaired RCC column section would be carried out by the contractor and cost of the testing should be borne by the Contractor.

**38. LIST OF TOOLS, PLANTS AND EQUIPMENTS TO BE PROVIDED AT SITE:**

Steel/ wood measuring boxes – 4 Nos. (size 35 Lts. Capacity i.e. 350\*333\*300mm). Sand screening meshes (for plaster 4.75mm B/W 6mm). Water-pump : Capacity should be wide that it can pump water to highest level in building. Mortar mixing Tray. Silt Jar for routine checking of sand quality. Measuring tape. Miscellaneous equipment's and assistance whatsoever while work on progress. Power point extension arrangement from one source to the place of convenience of working area. Site office maintenance for consultant + client. Stirrer, Mixer, Vibrator (as per applicability) etc. Sign Board to display consultants name and contact number as per specification.

**39. BANK AUTHORITY :**

Bank has full authority to add or delete any items of work as mentioned in the bill of quantity. However Bank propose to carry out repairs, plumbing and other civil works before or during monsoon.

**40. TOTAL SECURITY DEPOSIT**

In the case of successful tenderer the Earnest Money Deposit shall be held by the Bank for due fulfillment of the contract. Also 10% of the total value of work done will be withheld from their Running A/c. bills by the Bank as Retention Money. The total Retention Money shall be 10% of contract value inclusive of EMD/ISD 50% of Retention Money amount shall be released to the contractor on virtual completion of the work. The remaining amount shall be released after satisfactory completion of 12 months defects liability period. The balance RMD (about 5% of contract value) can be released against Bank Guarantee submitted by the contractor in the approved format.



#### **41. Initial Security Deposit**

The amount of Initial Security Deposit shall be 2% of the accepted value of the tender including the Earnest Money Deposit. The Initial Security Deposit is to be paid by the contractor to the Bank within 14 (fourteen) days of intimation to him of the acceptance of his tender. Bank Guarantee of like amount from any scheduled Bank shall be accepted in lieu of Cash Deposit.

#### **42. RETENTION MONEY**

The retention percentage (i.e. deduction from interim bill) shall be 10% of the gross value of each interim bill.

The maximum amount of retention money shall be the balance amount of the Total Security Deposit.

50% of the retention amount is refunded to the contractor on completion subject to the following:

- i) issue of Virtual Completion Certificate by the Architect/Premises Department.
- ii) Contractor's removal of his materials, equipment, labor force, temporary sheds/stores etc. from the site. (excepting for a small presence required if any for the Defect Liability Period and approved by the Bank).

The remaining 50% of the amount may be refunded 14 (fourteen) days after the end of defects liability period provided he has satisfactorily carried out all the work and attended to all defects in accordance with the conditions of the Contract, including site clearance.

If the contractor being a company go into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of the greater part, in number or amount of his creditors, or if the Official Assignee in insolvency, or the Receiver of the contractor in insolvency, shall repudiate the contract, or if a Receiver of the contractor's firm appointed by the court shall be unable, within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the employer that he is able to carry out and fulfil the contract, and if so required by the employer to give reasonable security therefor, or if the contractor shall suffer execution to be issued, or shall suffer any payment under this contract to be attached by or on behalf of and of the creditors of the contractor, or shall assign, charge or encumber this contractor, or any payments due or which may become due to the contractor, thereunder, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract to observed and performed by the contractor within three clear days after the notice shall have been given to the contractor in manner hereinafter mentioned requiring the

contractor to observe or perform the same or shall use improper materials or workmanship in carrying on the works, or shall in the opinion of the employer not exercise such due progress as would enable the work to be completed within due time agreed upon, and shall fail to proceed to the satisfaction of the employer after three clear days notice requiring the contractor so to do shall have been given to the contract or as hereinafter mentioned, or shall abandon the contract.

Then and in any of the said cases, the Bank may notwithstanding previous waiver determine the contract by a notice in writing to the effect as hereinafter mentioned, but without thereby effecting the powers of the employer of the obligations and liabilities of the contractor the whole of which shall continue in force as fully as if the contract had not been so determined and as if the works subsequently executed had been executed by or on behalf of the contractor (without thereby creating any trust in favour of the contractor ) further the employer or his agent , or servants, may enter upon and take possession of work and all plants, tool, scaffolding, machinery, steam and other power, utensils and materials lying upon premises or the adjoining lands or roads and sell the same by means of his own servants and workmen in carrying on and completing the works of complete the works, and the contractor shall not in any way interrupt or do any act, matter of thing to prevent or hinder such other contractors or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be, the employer shall give notice in writing to the contractor to remove his surplus material and plant and should the contractor fail to do so within a period of fourteen days after receipt by him the employer may sell the same by Public Auction and shall give credit to the contractor for the amount so realized . Any expenses or losses incurred by the employer in getting the works carried out by other contractors shall be adjusted the amount payable to the contractor by way of selling his tools and plants or due on account of work carried out by the contractor prior to engaging other contractor or against the Security Deposit.

#### **43. Arbitration :**

All disputes or differences of any kind whatsoever which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof of this contract or the execution of maintenance thereof of this contract or the construction remaining operation or effect thereof or to the rights or liabilities of the parties or arising out of or in relation thereto whether during or after determination foreclosure or breach of the contract (other than those in respect of which the decision of any person is by the contract expressed to be final and binding) shall after written notice by either party to the contract to the other of them and to the “Employer” hereinafter mentioned be referred for adjudication to a sole Arbitrator to be appointed as

hereinafter provided for the purpose of appointing the sole Arbitrator referred to above, the “Employer” will send within thirty days of receipt of the notice, to the contractor a panel of three names of persons who shall be presently unconnected with the organization for which the work is executed.

The contractor shall on receipt of the names of aforesaid, select any one of the persons named to be appointed as a sole Arbitrator and communicate his name to the “Employer” within thirty days of receipt of the names. The “Employer” shall thereupon without any delay appoint the said person as the Sole Arbitrator. If the contractor fails to communicate such selection as provided above within the period specified, the competent authority shall make the selection and appoint the selected person as the Sole Arbitrator.

If the “Employer” fails to send to the contractor the panel of three names as aforesaid within the period specified, the contractor shall send to the “Employer” a panel of three names of persons who shall all be unconnected with either party. The “Employer” shall on receipt of the named as aforesaid select anyone of the person’s name and appoint him as the Sole Arbitrator. If the “Employer” fails to select the person and appoint him as the Sole Arbitrator within 30 days of receipt of the panel and inform the contractor accordingly, the contractor shall be entitled to appoint one of the persons from the panel as the Sole Arbitrator and communicate his name to the “Employer”.

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

The work under the Contract shall, however, continue during the arbitration proceedings and no payment due or payable to the contractor shall be withheld on account of such proceedings. The Arbitrator shall give a separate reasoned award in respect of each dispute or difference referred to him. The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.

The fees and expenses, if any, of the Arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The Arbitrator may direct to and by whom and in what manner the cost of the reference and of the award including the fees and expenses or any part thereof shall be paid and may fix or settle the amount of costs to be so paid.

The award of the Arbitrator shall be final and binding on both the parties. Subject to the aforesaid, the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification or reenactment thereof and the rules made hereunder, and for the time being in force, shall apply to the arbitration proceeding under this clause.

#### **44. COMPLETION CERTIFICATE**

##### **(i) APPLICATION FOR COMPLETION CERTIFICATE**



The Consultant shall normally issue to the contractor the completion certificate within one month after receiving, an application thereof from the contractor and after verifying from the completion documents and satisfying himself that the work has been completed in accordance with and as set out in the construction and erection drawing and contract documents.

The contractor, after obtaining the completion certificate, is eligible to present the final bill for the work executed by him under the terms of contract.

*(ii) COMPLETION CERTIFICATE*

Within one month of the completion of the work in all respects, the contractor shall be furnished with a certificate by the Consultant of such completion but no certificate shall be given nor shall the work be deemed to have been completed until all scaffolding, surplus materials and rubbish is cleared if the site completely. The work will not be considered as complete and taken over by the employer, until all the temporary works, labor and staff colonies etc., constructed, are removed and the works site cleared to the satisfaction of the Consultant /Engineer-In-Charge.

If the Contractor shall fail to comply with the requirements of this clause on or before the date fixed for the completion of the work, the Consultant may at the expenses of the contractor remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean up the site and the contractor shall forthwith pay the employer for all expenses so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except of any sum actually realized by the sale thereof.

iii) CERTIFICATE

It is certified that various items of works claimed in the.....RA Bill by Contractor..... has been completed to the extent claimed and at appropriate rates and that the items are in accordance with and fully confirming to the standard and/or prescribed specifications and drawings. We further certify that we have checked the measurement to the extent of \_\_\_\_ per cent but not less than 25% of each item claimed in this bill. As net amount of Rs..... Rupees.....) is recommended to be paid to the contractor making the total upto date payment of Rs.....Rs.....).

**FORMAT FOR RUNNING BILL ON LETTER HEAD OF CONTRACTOR**

Running Bill No. ....



PRE QUALIFICATION cum TENDER FOR Repairs,  
Renovation & civil work at Swavalamban Academic Centre [ formerly SIT], Bhubaneswar, Odisha

**Tender Amount** **Rs. ....../-**

Value of work done Rs. ....../-

Less rebate (-) Rs. ....../-  
-----

Net Value of work done Rs. ....../-

Extra variation items after settlement @100% Rs. ....../-

Extra variation items without Settlement @75% Rs. ....../-  
-----

Total Rs. ....../-  
-----

Total payable Rs. ....../-

Deductions

1. Retention money Rs. ....../-

2. Recovery of advance if any Rs. ....../-

3. Income-tax Rs. ....../-

4. Total bill paid till last bill Rs. ....../-  
-----

Total deductions Rs. ....../- Rs. ....../-  
-----

Net payable Rs. ....../-  
-----

Amount certified for payment Rs. ....../-

Note : This page shall be signed and stamped by the Site Engineer, Contractor and Project Architect/ Consultant

I	Name of the Contractor/Agency		
II	Name of the work		



PRE QUALIFICATION cum TENDER FOR Repairs,  
Renovation & civil work at Swavalamban Academic Centre [ formerly SITI], Bhubaneswar, Odisha

III	Sr. No. of the Bill		
IV	Sr. No. of the Previous Bill		
V	Reference to Agreement No.		
VI	Date of written order to commence		
VII	Date of written order to commence		
VIII	Date of Measurements		
XI	Present status of work		

Sr. No.	Items Description	Unit	Rate	Qty. as per measurement	Tender Amount Rs.
1	2	3	4	5	6

Up to previous RA Bill		Up to date gross		Present bill		remark
Qty	Amt.	Qty	Amt.	Qty	Amt.	
7	8	9	10	11	12	13

Note :

1. If part payment / rate is allowed for any item, it should be indicated with reasons for allowing such a rate.
2. If adhoc payment is made, it should be mentioned specifically

**45. Government and local rules.**

The contractor shall comply with the provisions of all local bye- laws and Acts relating to the work and to the Regulation etc. of the Local Authorities and of any company with whose system the structure is proposed to be connected. The contractor shall give all notices required by said Act, Rules, Regulation and Bye-laws etc., and pay all fees payable to such authority /authorities for execution of the work involved. The cost, if any, shall be deemed to have been included in his

quoted rates, taking into account all liabilities for licenses, fees for footpath encroachment and restorations etc., and shall indemnify the employer against such liabilities and shall defend all actions arising from such claims or liabilities.

**46. Damage to Persons and Property Insurance Etc.**

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

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

The contractor shall effect the insurance necessary and indemnify the Employer entirely form all responsibility in this respect. The insurance must but placed with a company approved by the employer and must be effected jointly in the name of the contractor and the employer and the policy lodged with the latter.. The scope of insurance must be placed with a company approved by the employer and must be effected jointly in the name of the contractor and the employer and the policy lodged with the latter. The scope of insurance is to include damage or loss to the contract itself till this is made over in a complete state. Insurance is compulsory and must be effected from the very initial stage. The contractor shall also be responsible for anything which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract.

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

#### **47. INSURANCE :**

Unless otherwise instructed the contractor shall insure the works and keep them insured until the virtual completion of the contract against loss or damage by fire and/or earthquake , flood. For this purpose the contractor shall take CAP policy. Such insurance must be placed with a company approved by the Employer, in the joint names of the employer and the contractor for such amount and for any further sum if called to do so by the employer , the premium of such further sum being allowed to the contractor as an authorised extra.

The Contractor shall deposit the policy and receipt for premiums paid with the employer within 07 (seven) days from the date of issue of work order unless otherwise instructed . in default of the contractor insuring as provided above , the employer on his behalf may so insure and may deduct the premiums paid from any money due, or which may become due to the contractor The contractor shall as soon as the claim under the policy is settled or the work reinstated by the insurance company should they elect or do so, proceed with due diligence with the completion of the works in the some manner as though the fire has not occurred and in all respects under the conditions of the contract. The contractor in case of rebinding or reinstatement after fire shall be entitled to extension of time for completion as the employer may deem fit.

#### **48.SITE ENGINEER**

The site Engineer or any representative of the consultant , or the bank shall have power to give notice to the contractor or his representative , of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued until the decision of the Architect is obtained. The work will be from time to time be examined by the Architect/ the bank's engineer or the Architect's representative, but such examination shall not in any way exonerate the contractor from the obligations to remedy any defects which may be found to exist at any stage of the works or after the same is complete. Subject to the limitations of this clause, the contractor shall take instructions only from the consultant/Bank.

#### **49. DUTIES OF SITE ENGINEER**

To make a through study of contract documents, Architectural/Structural drawings and other details so as to bring out ambiguities/discrepancies between them and to obtain clarification from the Competent Authority well in time to avoid delays.

- i. To render a certificate to the Competent Authority to the effect that he has studied the contract documents, drawing and specifications.



- ii. To approve the centerline layout of building pegged out on site by the contractor and the benches for ground floor and other levels.
- iii. To take charge of objects of value and antiquity found on site or in excavations, immediately, after their discovery, to hold them in safe custody and to hand them over to the Competent Authority of the Bank for further action.
- iv. To approve the foundation strata when the appropriate depth of excavation is reached in consultation with the architects.
- v. To ensure that the quality of materials and workmanship as laid down in the contract is maintained and the accuracy of dimension shown on drawings is attained in the construction.
- vi. To watch the validity of the building permission issued by the Local Authority and to ensure that the revalidation, if necessary, is obtained well in time.
- vii. To arrange periodical reconciliation of cement and steel account and insure that proper recoveries are affected from contractor's running account bills.
- viii. To maintain the undernoted records at the site of work in addition to normal routine requirements of an office:
  - a. Daily Progress Record.
  - b. Work site Order Book.
  - c. Instruction by Bank's Officers.
  - d. Cement Statement (Receipt/Consumption/Balance).
  - e. Steel Register/any other costly Material register.
  - f. Contract Pour Reports including Stump Test Record.
  - g. Concrete Cube Test Register.
  - h. Test Registers of other materials/fittings, fixtures, equipment's as stipulated tender.
  - i. Register of Drawings and Working Details.
  - j. Log Book of Defects.
  - k. The Site Engineer should maintain in a Hindrance Register giving details commencement and removal of each hindrance.
  - l. Dismantled Materials Account Register.
  - m. Supply and consumption register of scarce/costly materials like bitumen, lead, laminates, special paints etc.

- n. Record of cement used/received: Day to day record of cement used/received shall be entered in the register and signed by the Site Engineer of the Bank as well as contractors representative at site.
- o. Record of reinforcement bars received at site: Necessary entry for reinforcement bars of each category shall be made in the register for steel and signed by the site engineer of Bank and the contractor daily.
- ix. To study the quality of approved coarse and fine aggregate and get the design of the concrete mix in accordance with modern practice. The Site Engineer shall Ensure that the mix design for RCC work shall be carried out by the Architect/Structural Consultant, if applicable.
- x. To record measurements of completed work jointly with the Contractor and to process them in running account bills.
- xi. To receive running account bills from the contractor and to forward them after checking, to the Competent Authority with his comments and recommendations and accompanied by all supporting documents.
- xii. To submit to the Competent Authority the Progress Report fortnightly.
- xiii. To watch that the concerned contract does not lapse for want of extension of time. Therefore, to keep it alive and in operation from point of consideration that “time is the essence of contract”.
- xiv. To ensure that progress on every contract is in accordance with appropriate stage of its Time and Progress Chart.
- xv. To prevent contractor from proceeding with any work on which the contractor has got intentions of raising claims of extra/deviated items, until the Competent Authority approves the work to continue.
- xvi. To receive the Final Bill from the contractor, to check it, and forward it with his comments and recommendations to the Competent Authority with all the supporting documents duly attached.
- xvii. To submit the final summary of costs for the project to the Competent Authority.
- xviii. To submit the Competent Authority authentic information on and the under noted records pertaining to the completed work in order to enable the Competent Authority to finalise them in the due course:
- a) Record i.e. as completed drawings.
  - b) Record of Standard Measurements for periodical services.
  - c) Inventory of fittings and fixtures.

To hand over to the Competent Authority a “first draft” of a “A Note Comprehensive Information to the User” containing detailed instructions on how to use and maintain the completed building to the best advantage of the Bank.

## **50. AGREEMENT:**

The successful contractor shall sign contract agreement with the bank to be drawn up to suit local conditions and shall pay all stamp duty and legal expenses.

## **51. Contractor's superintendence and supervision on the work –**

The contractor shall give all the necessary personal super-intendence during the execution of the work and as long as the Bank/Consultant may consider necessary until the expiration of the defect liability period. The contractor shall also during the whole time when the work are in progress, employ an experienced civil engineer who shall be constantly in attendance at the work. While the men are at work any direction explanation instructions notice by the bank/consultant to such representative shall be held to be given to the contractor. For non compliance, an amount of Rs. 15,000/- per month shall be deducted from the contractor during which the work carried out without the supervision of such engineer. However deduction in payment shall not exempt the contractor from his responsibilities for executing quality work.

## **52. RIGHT OF TECHNICAL EXAMINATION:**

Bank shall have right to cause a technical examination of the work and the final bill of the work and the final bill of the contractor including all supporting voucher.

If as a result of this examination or otherwise any sum is found to have been overpaid or over certified, it shall be lawful for the bank to recover such sum.

The subject work can be scrutinized by CTE's office a technical wing of CVC and other vigilance and audit authorities of the bank, decision of this, shall be binding on the contractor, any defects pointed out on such examination shall be rectified by the contractor.

**Section E**  
**TECHNICAL SPECIFICATIONS**

1. APPROVED BRANDS OF VARIOUS BUILDING MATERIALS:

A. Civil / Plumbing items

SR. NO.	MATERIALS	APPROVED BRANDS
1.	Cement OPC,PPC Grade 43 / 53	Gujrat Ambuja, L&T, A.C.C
2.	White Cement	ACC (Silvicrete), JK White, Birla.
3.	U-PVC Plumbing pipes.	Supreme or Prince ISI "A" grade.
4.	C.I. Pipe	Nikko ISI or Conforming to I.S.1230 for rain water pipes & Fittings & the I.S.1729 & ISP 3889 for soil & wastewater pipes.
5.	Cement based Paint	Snowcem, Nitco paints, Berger Paints, .Asian Paints
6.	Acrylic Paint/OBD	Asian Paints, ICI Paints, Berger Paints.
7.	Premium Acrylic paint	Nerolac, Asian paints, Berger Paints , ICI Paints
8.	Semi Acrylic Paint	Asian Paints, Berger Paints, ICI Paints
9.	Metal Redoxide Primer	Asian, Berger, Goodlac Nerolac, 'Johnson Nicholson'
10.	G.I. PIPES	TATA, Jindal, Zenith ,
11.	Sand	SILPOZE
12.	Vitrified Floor Tiles	Naveen, Diamontile, Johnson / Marbonite, RAK, or equivalent approved
13.	Ceramic floor and wall tiles	Kajaria Plus, Somany, Johnson, Nitco
14.	Glazing	Modifloat, St. Gobain, Asahi India

15.	Gypsum Board false Ceiling.	Saint-Gobain Gyproc India Ltd.
16.	Cabinet / Drawer Locks, Drawer slides, auto hinges, etc. Key board trays etc.	Godrej or approved Efficient Gadgets. EbcO. INNOFITT Systems.
17.	Door locks, handles etc.	Dorset, Acme, Godrej.
18.	Ply Board , Flush doors (ISI)	Sylvan, Aeon, Globe , Green ply, Kit Ply, Anchor, Century
19.	Laminates (ISI)	1MM. thick Formica or Century
20.	<b>BEADING</b>	MP, Burma Teak wood , Half round, Quarter round.
21.	<b>ALUMINIUM SECTIONS</b>	Hindalco, JINDAL
22.	<b>HARDWARE CACTHERS</b> –	Magnetic
23.	<b>HARDWARE CHANNELS</b> –	Flyrail, EBCO, Earl Bihari
24.	<b>ADHESIVE FOR FIXING LAMINATE</b>	Fevicol SH, Araldite of Ciba Geigy
25.	<b>SCREWS</b>	IW. nettle fold, Oxidised
26.	<b>HANDLES</b>	Dorma, Hafele.

- **TILE FIXING ADHESIVE** : Sika, Pidilite, Bal, Roff, Fosroc
- **MARINE PLYWOOD** : Century, Formica
- **BWR GRADE PHENOL**
- **BONDED PLYWOOD** : Formica, Century,
- **PARTICLE BOARD** : Nova, Teak Super By Indian Plywood Mfg. Co.
- **BLOCK BOARD** : Century, formica
- **FLUSH DOORS** : Century, formica, Uro, Duro
- FIBER BOARD (MDF, LDF)** : Century, Novapan, Anchor.

**B. Electrical items-**

1. 440 V/1.10 K.V. grade PVC insulated & unsheathed / copper wire, PVC insulated and flexible cords FR & HR PVC, with ISI mark FINOLEX / ANCHOR / HAVELS



- |  |   |
|--|---|
| 2. Steel conduit pipes and Accessories<br>Black enameled   | 1st class as per IS.9537<br>Part-II, 1981 (Pipe samples to be approved)<br>1st class G.I. Pipe.<br><br>Galvanized<br>-do- |
| 3. PVC / Polythene pipes   | 1st class pipe (ISI Mark)<br>(Heavy Type)   |
| 4. G.I. Pipe   | -do-  |
| 5. 30A/60A DP moulded Isolating switch   | ANCHOR / G.E.C. /L & T/ Havels  |
| 6. Miniature Circuit Breaker / M.C.B.<br>Type Isolator with factory made D.B.<br>Board                   | MDS / L&T / SIEMENS / LEGRAND/Havels  |
| 7. 15 Amp. / 5 Amp. piano key type<br>switch & Flushed type plug socket                                  | ANCHOR / CONA   |
| 8. Ceiling Rose / Angle Holders  | ANCHOR / CONA   |
| 9. 15 Amp. / 5 Amp. / plate type (modular)<br><br>switches and sockets over<br>PVC / G.I. metallic boxes | ANCHOR ROMA, HAVELS MK,<br><br>CRABTREE   |
| 10. Exhaust Fan  | G.E.C. / CROMPTON / KHAITAN/<br>USHA / ANCHOR / ALMONARD  |
| 11. Compact Florescent Light   | Phillips / Crompton Greeves   |
| 12. CEILING fans   | Crompton, Bajaj, Orient, Usha, Havels   |

The above mentioned chemicals shall be used **as per manufactures specifications and Approval of consulting Engineer.**



NOTE : Unless otherwise mentioned specifically, any one of approved makes or brands shall be allowed to use. Other makes or brands of the Building materials bearing I.S.I. monogram on the material itself will also be allowed to be used AFTER TAKING APPROVAL FROM CONSULTANT.

## SUPPORT SYSTEM :

### GENERAL:

Repair and Rehabilitation works does not mean plaster paint and forget. Contractors are advised to treat this part of tender/Contract with an understanding that it is more serious than for new works. It may be noted that the work when carried out by the contractor is done with full knowledge of the material used, its high points and its shortcomings. Every additive used should be properly dealt with and prior approval about the methodology of repair and mixing proportions be ascertained by the contractor from the consultants.

Preparation for any work forms an important part of repairs and rehabilitation work and due importance be given to all surface preparation. Approval and consultants go ahead is required whenever such surface preparations are mandatory before actual repairs can start. Improper preparation can lead to future failures.

All repairs to structural members must be preceded with a proper support system. This structural support system must be worked out for each structural member. Structural significance and safety of the whole building is of paramount importance. Necessary suitable propping is required to be provided shall have proper bottom and top bearing planks of proper material and area with adequate thickness (minimum 25mm). The props shall be tight and vertical and should not move or vibrate when tapped.

A guideline to check if the number of props provided is sufficient being for wood. One wooded prop of 100 mm dia. shall carry 3 T of load.

Unless detailed calculations are done, the following approximate shall apply.

Every column carries approximately the following load:

$$W_c = W_{con} + W_{st}.$$

Where  $W_{con} = Y$  where Y is the breadth in cms if width is 23cms

And  $W_{st}$  is as follows:

Dia in mm	load per bar
12	2 T
16	4 T



20	6 T
25	9 T

So Wst = load per bar x No. of bars

It is mandatory to support every column being jacketed.

## 2. REMOVAL OF CONCRETE/ PLASTER COVER :

2.1. The range of removal of plaster/ concrete cover shall extend to the limit of crack /hollowness /corrosion of rebar. The governing dimensions of removal shall be based on the minimum dimensions and/or shall extend beyond the zone of rusting to a minimum dimensions.

2.2. Concrete surfaces to which treatment are to be applied shall be freshly exposed parent concrete free of loose and unsound materials. Prepare surfaces by mechanical abrasion unless prohibited by environmental limitations in which case acid etching may be used.

2.3. A good base or foundation shall be prepared for successful application of any treatment.

2.4. All unsound /weak concrete/ mortar material shall be first removed by the contractor up to the required depth. Chipping shall continue until there are no offsets in the cavity, which will cause an abrupt change in the thickness of repaired surface. No square shoulders shall be left at the perimeter of the cavity, all edges shall be tapered. The final cut surface shall be critically examined to make sure that it is sound and properly shaped.

2.5. All treated area shall always measured after chipping is complete. It shall be measured as the nearest geometrical shape. Thickness measurements for structural repair shall be taken as average thickness measurement backward from theoretical calculations based on chemical consumption's. Such cases of average thickness exceeding 25 mm shall be paid on prorated basis of quoted rate.

## TS 3: CLEANING OF SURFACE :

3.0. Cleaning of concrete surfaces.

3.1. Concrete surface to which treatment are to be applied shall be freshly exposed parent concrete free of loose and unsound materials. Prepare surfaces by mechanical abrasion unless prohibited by environmental limitations in which case acid etching may be used.



3.2. Mechanical abrasion:- Use sandblasting or scarifying or wire brushing or other approved means. The purpose of this is to achieve a surface that is clean and dust free. Distressed loose concrete is to be removed.

3.3. Acid etching:- Etch surface with a commercial grade of hydrochloric acid diluted at a ratio of 10:90 to 20:80. After this application, scrub surface with a stiff bristled broom, brush, or similar implement. Immediately after foaming action of acid has subsided, flush surface with water jets until all residue is removed. Repeat procedure until Latinate is completely removed. Wash such areas with water at least three times and allow to air dry prior to further treatment.

#### **TS 4: WATER CLEANING :**

4.1. All surfaces so prepared as per TS 2 and TS 3, have to be cleaned of all the effects of the above procedure.

4.2. A fresh water jet is recommended for the cleaning process. This is aimed to remove all dust, oil, rust particles and any such deleterious material that is not conducive to sound construction practices. The jet pressure can also be achieved by a stream of fast flowing water from a pipe.

4.3. Inspection of concrete surfaces prior to mortar application.

4.4. Inspect all concrete surfaces prior to application of mortar to ensure that section is free from loose particles and deleterious materials, cracks and effects of corrosion or carbonation.

4.5 Surfaces shall be free of any deleterious materials such as Latinate, curing compounds, dust, dirt, and oil. Materials resulting from surface preparation specified in Article 3.1 shall be removed.

4.6 All concrete surfaces shall be dry as defined in Article 4.2.3.2 below unless a water-insensitive coating is used.

4.7. Evaluate moisture content for concrete by determining if moisture will collect at boundary lines between old concrete and new coating before the new coat has cured. This may be accomplished by taping a 4 x 4 ft polyethylene sheet to concrete surface. If moisture collects on underside of polyethylene sheet before polymer would cure, then allow concrete to dry sufficiently to prevent the possibility of moisture between old concrete and new layer.

## **TS 5: CHIPPING OF CONCRETE COVER :**

5.1. The range of removal of concrete cover shall extend to the limit of crack /hollowness /corrosion of rebar. The governing dimensions of removal shall be based on the minimum dimensions given in the drawing and/or shall extend beyond the zone of rusting to a minimum dimension as specified in the drawing.

5.2. Concrete surfaces to which treatment are to be applied shall be freshly exposed parent concrete free of loose and unsound materials. Prepare surfaces by mechanical abrasion unless prohibited by environmental limitations in which case acid etching may be used.

5.3. A good base or foundation shall be prepared for successful application of any treatment.

5.4. All unsound /weak concrete/ mortar material shall be first removed by the contractor up to the required depth as directed by engineer. Chipping shall continue until there are no offsets in the cavity which will cause an abrupt change in the thickness of repaired surface. No square shoulders shall be left at the perimeter of the cavity, all edges shall be tapered. The final cut surface shall be critically examined to make sure that it is sound and properly shaped.

5.5 All areas so chipped shall be subjected to water cleaning and drying. No deleterious material shall be left on the chipped surfaces. It is essential that the loose and cracked concrete shall be properly removed. It is essential that concrete around the rebar, which shows corrosion shall be removed properly, and sufficiently to ensure proper cleaning of rust from the rebar.

5.6 In case the distressed concrete extends into the core of the section it is essential to seek the consultants approval prior to removal of this concrete. It is essential also to design proper support system and prop the area prior to removal of concrete beyond 5 mm inside the core area.

## **6. BRICK BAT WATER PROOFING:**

6.1 Removal of existing water proofing layer.

All existing waterproofing layer will be removed by the contractor, wing wise using chisel and hammer. The hammer will not be used directly on the slab, chisel is to be used only in slanting manner to ensure that the chisel does not enter the slab section. Any damage to the slab will be made good using proper shuttering, steel and concrete mix 1:1.5:3. It shall be allowed to cure for 7 days before further work is undertaken.

6.2. PRE TREATMENT.

After the slab top face is exposed the same shall be first broom cleaned and then water cleaned. Immediately on cleaning with water a thin slurry of cement is prepared and broomed over the entire surface and allowed to entire all crevices, cracks etc. which are grooved prior to slurry application. After the slurry coat is completed, and dried for 24 Hrs. The surface is inundated with water for 4 days to check for water tightness. In case any seepage marks appear on the 4<sup>th</sup> day grooving is repeated before proceeding ahead. Due care is to be taken that all crevices, cracks and unevenness is properly treated.

### 6.3. Water proof treatment.

The grouted surface is cleaned of all excess inundated water and air dried 1 day, cement mortar ( 1: 3 ) with waterproofing chemical added in the ratio of 1 kg for 50kg of cement is prepared and laid evenly over the surface. Thickness of very evenly backed bricks are then hand packed in this wet mortar to create desired slope. The slope that is maintained is 1mm in 120mm ( 1" in 10' ) . The slope should drain water into the rain water pipe. The top finished level should be at least 1mm below the bottom invert of the rain water pipe. Water is inundated on this brick laid surface for 7 days to check for water tightness and to eliminate weak brick pieces. All weak brick pieces are to be replaced by fully caked pieces. All joints of brick work are then filled with thin coat cement slurry and leveled with cement mortar (1: 3) duly mixed with water proof compound. The cement mortar is to broom finished and inundated with water for 21 days. In case of cement slurry smooth finish with marking as top finished inundation shall be done after top finish coat. China mosaic coat is applied in required design after monsoon and cleaned, finished cured complete.

## 7. TOILET/ WC WATER PROOFING:

### 7.1 Removal of existing water proofing layer.

All existing waterproofing layer will be removed by the contractor, using chisel and hammer. The hammer will not be used directly on the slab, chisel is to be used only in slanting manner to ensure that the chisel does not enter the slab section. Any damage to the slab will be made good using proper shuttering, steel and concrete mix 1:1.5:3. It shall be allowed to cure for 7 days before further work is undertaken.

### 7.2 Pre Treatment.

After the slab top face is exposed the same shall be first broom cleaned and then water cleaned. Immediately on cleaning with water slurry coat of cement shall be applied. Due care is to be taken that all crevices, cracks and unevenness is properly treated.

### 7.3 Water proof treatment.

Brickbats of varying sizes will be laid in 25 to 30mm thick cement mortar laid 1:3 in all positions with an average thickness of 100mm in proper slope not less than 20mm in 200mm feet. This layer has to be cured for 4 days. After curing layer of 40mm of Indian patent stone 1:3 is to be laid complete with curing. Waterproofing compound based on polymer of standard make to be added in both layer and chips to be laid later on. The restoration of all finishing items shall be done by the contractor.

## 8. CERAMIC GLAZED TILES :

Ceramic glazed tiles shall be of best (first) quality Indian manufacture or otherwise if so specified, and quality, size, colour shall be approved by the consultants. They shall be of uniform colour and glazed. They shall not be less than 6mm thick and shall be free from warped surfaced, cracks and shall be with true edges, straight and even. They shall be laid to required slope on floors and truly vertical for walls, on a bedding mortar(1:6) of 25mm thick cement mortar and set in cement floating with close joints and well tapped to level. For walls the backing shall be of cement mortar. The joints of tiles shall have colour cement pointing, to match with the colour of tiles. The surface between the w.c. pan and the top of the tiles shall be finished in white cement along the curve of the pan, and no extra will be paid for this. After the setting operation is completed, the contractor shall remove carefully all cement etc. form the surface. The rate for the work shall be inclusive of all preparatory works . Supplying, setting and handing over neat and clean the area to be tiled.

## 9. CI PIPES

9.1. Material :- All C.I. pipes and fittings shall be centrifugally casted as per IS specifications with spigot and socket ends. All pies and fittings are having manufacturer's name and label. The dimensions are accurately as per standard specifications. The same specifications shall be adopted for both removing & refixing & and also for removing & providing required pipe lines.

### 9.2. Removing :-

Removal of CI pipes and fitting are to be very carefully by chiseling .Necessary openings shall provided on wall which will sealed with cement mortar at free of cost after the refitting were done. The users are to be informed as early as possible and probable time taken for completion will informed to them by the concerned contractor.

### 9.3. Refitting :-

After the completion of the sand face plaster as per IS or as directed by the engineer refitting to be done. All pipes were clipped 50mm away from wall by providing appropriate spacer block and with nails which shall be drill driven. The joints shall be sealed properly with out leakage's. Necessary fittings are to be fitted and alignment should be maintained in case new pipes are to be fitting, appropriate IS brand approved shall be used.

Detection of cracks in pipes:- All pipes and fittings shall be inspected carefully before being laid. Broken or defective pipes shall not be used and removed from the site of work pipes shall be rung with a light hammer preferably while suspended to detect cracks. If doubt persists, confirmation may be obtained by pouring a little paraffin on the inside of the pipe at the suspected spot, if a crack is present, the paraffin seeps through and shows on the outer surface.

Preparing pipes: - The pipes shall be carefully cleared of all foreign matter before being laid. They shall be thoroughly brushed out internally with a well fitting hard brush, and after laying, the open end shall be temporarily plugged to prevent ingress of water, soil, etc. precautions shall be taken to prevent damage to pipes.

Sealing of Joint: - Jointing of CI pipes and fixtures shall be done by cement paste and finished by sodium silicate solution. The joints shall be carefully sealed and tested for leakage.

Painting: All plumbing lines shall be provided with appropriate paint in 2 coat properly finished complete

#### 10. PVC PIPES :

PVC pipes shall conform to IS specification for high-density polyethylene pipes for drainage work. The pipes shall have smooth internal and external surfaces. Slight shallow longitudinal grooves or irregularities in the wall thickness shall be permissible provided that the wall thickness remains within the permissible limits. PVC pipes shall be pressure ratings (working pressure) as indicated. The pipes shall carry colour bands to indicate the class of pipes.

Class of pipes	Working pressure MPa	Colour
Class 1	0.2	Orange
Class 2	0.25	Red
Class 3	0.4	Blue
Class 4	0.6	Green
Class 5	1	Yellow

PVC pipes: - PVC pipes shall conform to IS 4985 - 1981, Specification for PVC pipes for potable water supply. The pipes shall be reasonably round. Internal and external surfaces of the pipes shall be smooth and clean, PVC pipes shall be pressure ratings ( working pressure ) as 2 - 5 , 4.5 and 10Kg / sq cm. as indicated .

Jointing of PVC pipes

Solvent welded joints:- This technique is used with both

All relevant specifications as outings under IS 60 for removal, refixing cleaning, painting etc.

## **11. CHAMBER/ SOAK PIT REPAIRS:**

11.1 Manholes: Manholes shall be built at every change of alignment, gradient or diameter of a drain, or where directed. Bends and junctions in the drains, shall be grouped together in manholes. The maximum distance between manholes shall be 45 m for pipes up to 300mm dia and 75m for pipes up to 500 mm dia, and 90 m for pipes up to 900mm.

Manholes of different types and sizes as indicated shall be constructed in the sewer line at such places and to such levels and dimensions as shown in the drawing or as directed by the Engineer - in- charge.

Where the diameter of the drain is increased, the crown of the pipe shall be fixed at the same level and necessary slope given in the invert of the manhole chamber. In exceptional cases, where unavoidable the crown of the branch sewer may be fixed at lower level but in such cases the peak flow level of the two sewers shall be kept the same.

The branch sewers shall deliver sewage in the manhole in the direction of main flow and the junction must be made with care so that flow in the main is not impeded.

No drain from house fittings e.g. gully trap or soil pipe, to manhole shall be normally exceed a length of 6m unless it is unavoidable.

Excavation. The manhole shall be excavated true to dimensions and levels shown on the planes or directed by the EIC.

11.2. Bed Concrete - The manhole shall be built on a bed of cement concrete 1:3:6 type C2, or 1:2:4 type B2 where indicated. The thickness of the bed concrete shall be 20cm for manholes up to 4.25m depth and 30 cm for depths beyond 4.25 m unless otherwise indicated or directed by the EIC. In bad ground, Special foundations as suitable shall be provided.

11.3. Brick Work - The brick work shall be with sub-class B bricks in cement and sand mortar. The external joints of the brick masonry shall be finished flush, and the joints of the pipes and the masonry shall be made perfectly leak proof . For arched type and circular manholes brick masonry in the arches and arching over the pipes shall be in cement and sand mortar 1:3 . In the case of manholes of circular type the excess shaft shall be corbelled inwardly on three sides at the top to reduce its size to the cover frame to be fitted. Specification for the types of masonry shall be indicated.

11.4. Plaster and Pointing - The walls of the manholes shall be plastered inside with 15mm thick cement plaster 1:3 finished smooth. Where saturated soil is met with the external surface of the walls of the manholes shall also be plastered with 15mm thick cement plaster 1: 3 finished smooth . The plaster shall further be water proofed where indicated with addition of approved integral water proofing compound in a quantity as indicated.

11.5. Benching - The channels and benching shall be done in cement concrete 1:2:4, type B1 rendered smooth with extra cement. The depths of channels and benching shall be as under:

Size of Drain	Top channel at the center above bed concrete	Depth of benching of side walls above bed concrete
mm	Cm	Cm
100	15	20
150	20	30
200	25	35
250	30	40
300	35	45
350	40	50
400	45	55
450	50	60

11.6. Steps - All manholes deeper than 0.8 m shall be provided with steps . These shall be embedded 20cm deep with 20x20x10cm blocks of cement concrete 1:3:6 type C1. The block with foot rest placed, in its center shall be cast in situ along with the masonry.

11.7. Manhole Covers and Frame - The frame of manhole shall be firmly embedded to correct alignment and levels in R. C. C. slab or plain concrete as the case may be . Before completion of work manhole covers shall be sealed by means of thick grease.

## 12. G. I. PIPES:

### 12.1 G . I . Pipes and sockets.

#### Materials.

The pipes shall be galvanized mild steel welded pipes and seamless, screwed and socketed tubes conforming to the requirement of I. S. 1239 - 1964 for medium grade. They shall be of the diameter (nominal bore) specified in the description of the item. The respective nominal bores of the pipes for which they are intended shall design the sockets.

The pipes and sockets shall be cleanly finished, well galvanized in and out and free from cracks, surface flaws, laminations, and other defects. All screw threads shall be clean and well cut. The ends shall be cut cleanly, and square with the axis of the tube.

The details of pipes and sockets regarding nominal bore, thickness and in Kg /m are given in the Table below: -

#### TABLE :

(Particulars of medium grade G. I. Pipes)

Nominal bore	Dimensions of pipes Outside dia		Thickness	Dimensions of ordinary sockets App. outside dia	Weight of pipe	
	Max	Min			Min length	Plain end
Mm	mm	mm	mm	mm	mm	Kg/m
15	21.8	21.0	2.65	26.90	34	1.21
20	27.3	26.5	2.65	33.7	36	1.57
25	34.2	33.3	3.25	42.6	43	2.42
32	42.9	42.0	3.25	51.0	48	3.11
40	48.8	47.9	3.25	57.0	48	3.59
50	60.8	59.7	3.65	70.0	56	5.07
65	76.6	75.3	3.65	88.9	65	6.49
80	89.5	88.0	4.05	101.6	71	8.43

The following manufacturing tolerances shall be permitted on tubes and sockets in additions to those indicated in the table above.

#### ( a) TUBES

##### (1) THICKNESS

(i) Medium Tubes Butt Welded

+ Note limited



Medium Tubes Seamless	- 10 per cent
	+ Note limited
	- 12.5 per cent

(2) WEIGHT

(i) For quantities of 150m and over of one size	+ / - 4 per cent
(ii) Single tube	+ 10 per cent
	-8 per cent

(b) SOCKETS

out side diameter	+ / - 2.5 per cent
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All screwed tubes and sockets shall have pipe threads conforming to the requirements of I .S . 554 \_ 1955 (or revised ) screwed tubes shall have taper threads while the sockets shall have parallel threads .

12.2 Pipe fittings :- The fittings shall be of malleable cast iron or mild steel tubes complying with all the appropriate requirements given as specified . The respective nominal bores of the pipes for which they are intended shall design the fittings.

The fittings shall have screw threads at the ends conforming to the requirements of I.S. 554 \_1955 (or revised) . Female threads on fitting shall be parallel and male threads ( except on running nipples and collars of unions ) shall be taper .

12.3 Cutting, laying and joining: - The pipes and fittings shall be inspected at site before use to ascertain that they conform to the specification given above. The defective pipes shall be rejected. Where the pipes have to be cut or rethreaded, the ends shall be carefully filed out so that no obstruction to bore is offered. The end of the pipes shall then threaded conforming to the requirements of I. S 554 - 1955 with pipes dies and taps carefully in such a manner as will not result in slackness of joints when two pieces are screwed together. The taps and dies shall be used only for straightening screw threads which have become bent or damaged and shall not be use for turning of the threads so as to make them slack, as the later procedure may not result in a water tight joint. The screw threads of pipes and fitting shall be protected from damage until they are fitted.

The pipes shall be cleaned and cleared of all foreign matter before being laid. In jointing the pipes, the inside of the socket and the screwed end of the pipes shall be oiled and rubbed over with white lead and a few turns of spun yarn wrapped round the screwed end of the pipe. The end shall then be screwed in the socket, Tee etc. with the pipe wrench. Care should be taken that all pipes and fittings are properly jointed so as to make the joints completely water tight and pipes are kept at all times free from dust and dirt during fixing. Burr from the joint shall be removed after screwing. After laying, the open ends of the pipes shall be temporarily plugged to prevent access of water, soil or any other foreign matter.

Any threads exposed after jointing shall be painted or in the case of under ground piping thickly coated with approved anticorrosive paint to prevent corrosion.

12.4 Internal work: For internal work the galvanized iron pipes and fittings shall run on the surface of the walls or ceiling (not in chase) unless otherwise specified. The fixing shall be done by means of standard pattern holder bat clamps, keeping the pipes about 1.5cm clear of

the wall. When it is found necessary to conceal the pipes chasing may be adopted or pipes fixed in the ducts or recesses etc. provided there is sufficient space to work on the pipes with the usual tools. The pipes shall not ordinarily be buried in walls or solid floors. Where unavoidable pipes may be buried for short distances provided adequate protection is given against damage and where so required joints are not buried. Where directed by the Engineer-in-charge, a M. S. tube sleeve shall be fixed at a place a pipe is passing through a wall or floor for reception of the pipe and to allow freedom for expansion and con

### **13. PAINTING.**

#### **13.1. CEMENT PAINTING**

##### **13.1.1 White washing**

Fresh white lime slacked at site of work should be mixed with sufficient water to make a thin cream. The approximate quantity of water required in making the cream is 5 litres of water to 1 kg of lime. It shall then be screened through a coarse cloth and gum (glue) in the proportion of 100 grams of gum to 16 litres (three chatacks of gum to 6 gallons) of wash shall be added. The surface should be dry and thoroughly cleaned from dust and dirt. The wash shall be applied with 'moonj' or jute brush, vertically and horizontally alternately and the wash kept stirred in the container while using. Two or three coats shall be applied as specified and each coat shall be perfectly dry before the succeeding coat is applied over it. After finishing the surface shall be of uniform colour. The white wash should not splash on the floor and other surfaces. In old surface the surface should be cleaned and repaired with cement mortar where necessary and allowed to dry before white wash is applied. For final coat blue pigment powder should be mixed to the required quantity with the lime water to give a bright white surface.

##### **13.1.2 Colour washing**

Colour wash shall be prepared with fresh slacked white lime mixed with water to make thin cream adding the coloured pigment to the required quantity to give the required tint. Gum (glue) in the proportion of 100 gm of gum to 16 litres (three chatacks of gum to six gallons) of wash shall be added. The colour wash may be applied one or two coats as specified. The method of application

should be same as for white washing (item 17). For new work the priming coat shall be of white wash.

#### 13.1.3. TS 37.3. Distemping :

The distemper shall be of best quality and the colour should be as specified. The distemper should be mixed and prepared and water added, as laid down in the instructions of the manufacturer. First a paste is made by adding little hot water to the distemper powder and stirred thoroughly, and the paste is allowed to stand for a few minutes. The paste is then thinned with water to have a thin cream to the consistency of oil plant and stirred thoroughly all the time while applying. If the surface is rough, it should be smoothed with sand paper.

The surface must be perfectly dry before distemping is commenced. In new cement plaster the surface shall be washed over with a solution of zinc sulphate, one kg zinc sulphate in 10 litres of water and then allowed to dry. In old surface, the surface shall be repaired with plaster of paris where required and then whole surface sand papered and washed and allowed to dry.

The number of coats shall be two or as specified. The distemper shall be kept well stirred in containers and shall be applied with broad brushes first horizontally and immediately crossed vertically. Brushing should not be continued too long to avoid brush marks. The second coat shall be applied after the first coat is dried up. After each day's work the brushes shall be washed and kept dry. Distemping should be done during dry weather but not during too hot weather, not wet weather.

#### **14: PLASTIC EMULSION PAINTING:**

Plastic emulsion is mixed by the manufacturer while manufacturing. For application of plastic emulsion it is mixed with the required quantity of primer and then applied on the surface. The methods of preparation and application are similar as described above.

##### **SPECIFICATIONS FOR PAINTING WITH SYNTHETIC ENAMEL PAINT:**

1. The steel structures like grill, plates, angles, channels, etc... are to be painted with Synthetic enamel paint. The structures are fabricated by beams, channels, angles, flats & plates of different size and thickness.
2. Surface preparation of structures by cleaning the surface by wire brush, chisels, buffing wheel, mechanical tools & grinder is to be done compulsorily. At some locations, the cleaning shall be carried out by water/air jetting. All necessary arrangement for water/air jetting including arrangement of pump, compressor, etc. shall be in the scope of contractors. All the loose rust, old paints etc. are to be cleaned up to the entire satisfaction and certification of Engineer-in-charge. Without certification of scrapping & cleaning work from Engineer-in-charge, painting will

not be allowed. Joint records to be taken for initial thickness of existing surface with digital Alco meter (to be supplied by contractor) as directed by Engineer-in-charge.

3. One coat of Red oxide zinc chromate primer conforms to IS: 2074 to be applied uniformly on the surface of steel after perfectly cleaning the structures by the wire brush, chisels & grinders. All the loose rust, paints etc. are to be cleaned. The thickness of primer should be 25 microns. Joint records to be taken for verification of thickness of red oxide primer with digital Alco meter (to be supplied by contractor) as directed by Engineer-in-charge.

4. Before applying successive coat, proper cleaning of the entire surface shall be carried out to remove any dirt, dust, etc.

5. One coat of Luxol high glossy Synthetic enamel paint in similar shade is to be applied uniformly. The thickness of first coat should be minimum 25 microns. Joint records to be taken for verification of thickness of first coat of synthetic enamel paint with digital Alco meter (to be supplied by contractor) as directed by Engineer-in-charge.

6. After drying of the synthetic enamel & surface cleaning, the next successive coat of Luxol high glossy Synthetic enamel paint in similar shade shall be applied uniformly. The thickness of the second coat should be minimum 25 microns. Joint records to be taken for verification of thickness of second coat of synthetic enamel paint with digital Alco meter (to be supplied by contractor) as directed by Engineer-in-charge.

#### SPECIFICATION FOR ACTYLIC EMULSION PAINT

Surface preparation, prime and putty application shall be as per specification of oil bound distemper. Two coats of Acrylic emulsion paints shall be applied as per manufacturer's specification.

#### SPECIFICATION FOR APEX WEATHER EXTERIOR PAINT

Surface preparation:

Surface is thoroughly clean, dry and free from all loose dirt, chalk, grease, funfi, algae and flaking paint. This can be achieved by brushing with a wire / stiff coir brush, followed by water jetting if required. Fill up all minor cracks and defects with white cement and sand mixture in the ratio 1:3. For application on previously painted wall, previous coatings of paint must be thoroughly scraped off and clean the surface thoroughly using wire brushes.

Priming:

Apply a liberal coat of exterior acrylic primer and allow it to dry for 4-5 hours. application of putty is not recommended. Minimum 4-6 hours duration is required between each coat of weather shield max paint.

#### WORK DESCRIPTION: ACP Re-cladding of at SITI:

1. The agency has to remove all existing old ACP cladding sheets either from aluminium outer framework or along with the aluminum outer framework on the Pylon. All old removed cladding sheets to be marked with paint. The approximate height of building is 15 meters including steel members and the drawing is enclosed for reference.

2. After removal of cladding sheet agency has to remove (leftover if any) all old aluminium outer frameworks from pylon structure. All old framework members to be marked with paint.
3. The agency has to provide new external use ACP cladding sheet, aluminum outer frame, all necessary substructure and G I U Clamp, gap sealants & its back up material and fasteners as per specification & BOQ and keep at site.
4. Agency has to make own arrangements for security of material supplied till work completion.
5. The ACP cladding sheet shall be factory protected with a self adhesive peel-off foil to protect the applied finish during fabrication and installation process and shall not be removed until panels have been installed.
6. The agency has to fix new aluminum outer frame as per already existing old design on GIU clamp with stainless steel fastener and new ACP cladding sheet. Agency to ensure that that new cladding will be as per existing sizes, curvature, straightness and gaps between cladding trays. A uniform gap of 15mm (+/- 2 mm) should be maintained between trays.
7. ACP panels are to be fabricated into trays before fixing for stiffness. The exposed area is to be measured before fixing on the building. The payment will be made based on the exposed area.
8. To have a aesthetic look the cladding should be installed level, true to line with uniform joints and reveals such as, maximum deviation for vertical members 3mm max over 5.2 meter and 5mm maximum over 11 meter and maximum deviation over horizontal members 3mm max over 8.5 meters.
9. Filling of gap between ACP panel trays with foam/backer rod and sealing is to be done by agency with weather proof non staining non streaking silicone sealant (DOWCORNING 991 hp or its equivalent specification).
10. Removal of dismantled items and clearing of the site is to be done by the agency.
11. All old material removed thereof is to be taken back by the party free of cost 12. Before handing over of the completed cladding, all peel-off foil shall be removed and Cleaning of ACP cladding to be done.
14. Agency has to submit material register along with bill for payment.
15. ACP Cladding sheet should be of Alstrong Cambria / Alucobond / aludecor /alpolic make, in similar shade.
16. All cladding work to be carried out in accordance of ACP manufacturer recommendations  
Specification of Aluminium composite panel: It has to fulfill following parameters  
A. Aluminium composite panel composed of low densities polyethylene sandwiched between aluminium sheets. Total Composite Panel thickness of the sandwiched material is 4 mm , aluminium alloy skin(0.5mm thickness) and core (3.0 mm thickness )with minimum two coat of fluorocarbon KYNAR 500 PVDF or Lumiflon and peel off foil to protect surface during transportation, fabrication and installation.  
B. Product tolerance



Width : +/- 2 mm

Length : +/- 4.0 mm

Thickness : +/- 0.2 mm for 4 mm thick

Bow : Maximum 0.5% of the length/ width

Squareness : Maximum 5.0 mm

Surface Defect: The surface shall not have any irregularities such as roughness, buckling and other imperfections with our specification of visual inspection rules.

#### ALUMINIUM BACK UP FRAME:

Aluminium backup framework of 50mm X 25mm aluminium, U /Box channel suitable for getting fixed to the adjustable slotted 125mm X 50mm G.I. U Channel with Stainless Steel fastener for ensuring that the frame work is in plumb.

Work description: ACP Re-cladding of at SITI, Bhubaneswar:

1. The contractor shall visit the site, see the job and understand fully the scope and extent of work and ascertain the site conditions before quoting.
2. After placement of work order the agency has to start the work as per instruction of engineer in charge Before starting of the work Sample of new ACP cladding sheet (10cm\*10cm) to be submitted by party for color purpose only and approval to be taken for the color from engineer I/C . However other parameters should match with the specification of ACP cladding sheet.
3. Manufacturer test certificate and warranty of minimum period of 10 years for ACP cladding sheet is to be submitted by agency with warrantee.
4. Agency has to give installation certificate of new ACP cladding sheet.
5. Agency has to submit approval from ACP manufacturer as installing firm.
6. Agency has to maintain material register for ACP cladding sheet and all material to be entered in register along with manufacturer invoice details and the copy of invoice of manufacturer to be submitted to SITI.
7. All tools and tackles required to carry out the job is in Agency scope
8. The agency has to make own arrangements for safety and security of all his material till completion of work.
9. Scaffolding required for job will be made by agency free of cost.

### 15. SPECIFICATION FOR SECURITY PORTA CABINS

Scope:

a) Fabrication and Transportation of Porta cabins of size and quantity as per the attached drawing and specifications mentioned below:

Sl. No.	Details of dimensions	Quantity required.
1	10'X8'X9' (Length x width x height)	1 Number
2	4'X4'X7' (Length x width x height)	1 Number

b) The vendor / bidder should provide one year warranty against structural damages, manufacturing defects of the porta-cabin. The warranty shall be effective from the date of delivery at site at SITI, Bhubaneswar

c) Replacement of damages to the porta-cabin caused in-transit, if any, are in the scope of the bidder / vendor.

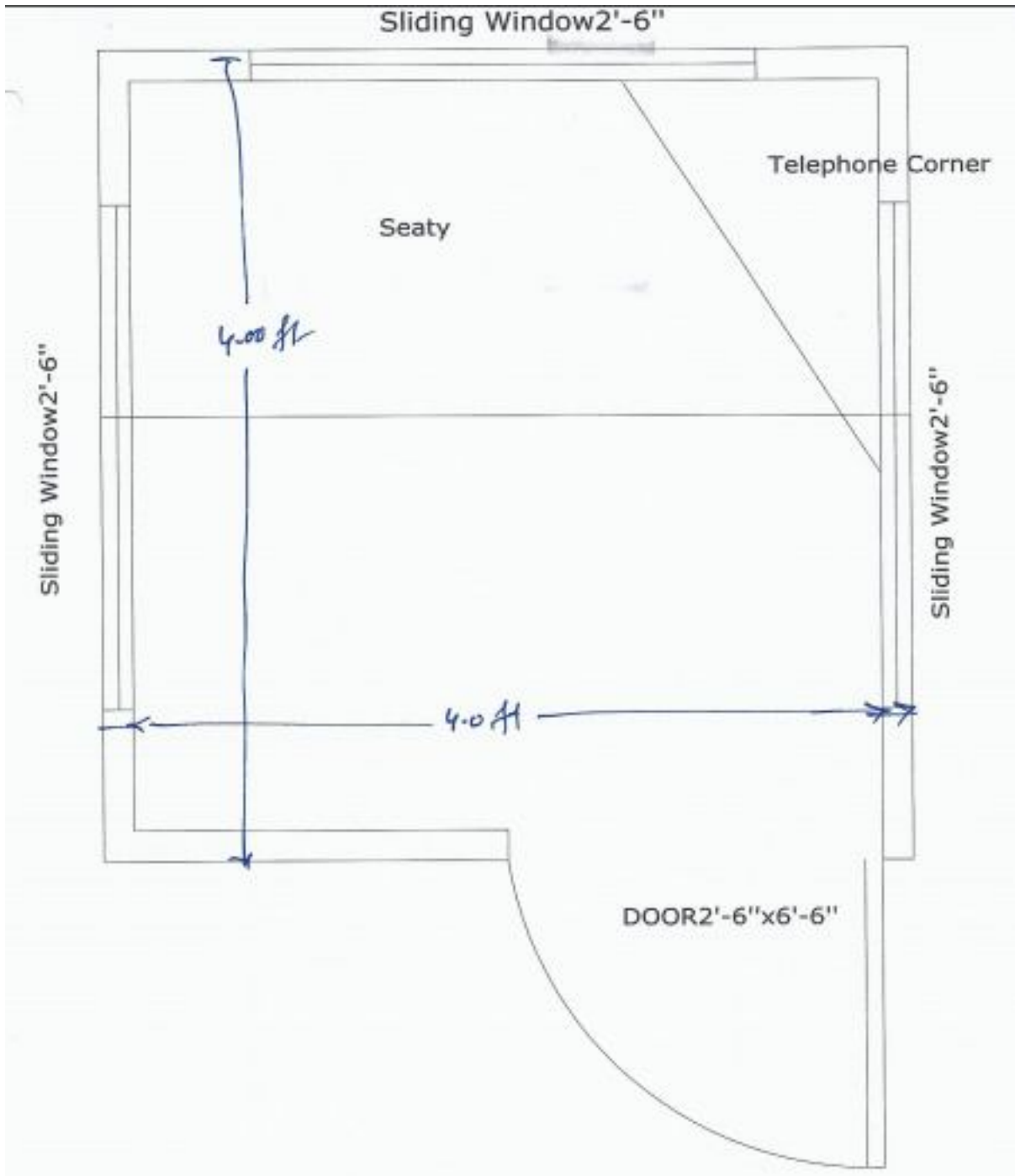
d) The detailed technical specification for each Porta-cabin will be as follows:

2. Detailed Technical Specification for Porta Cabins.

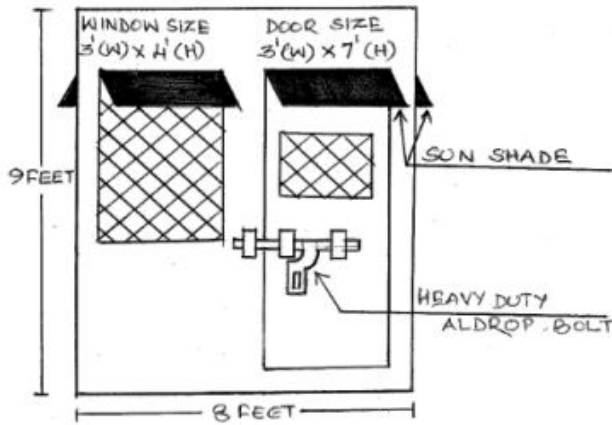
SI No.	Item	Description
2.1	Type of Portacabin	Lift and Shift type with rings on all four top corners for hooking for easy lifting and shifting.
2.2.	Base	Base frame used shall be made of 125 mm x 50 mm C Channels of minimum 6 mm thick.
2.3.	Stiffener Bottom	100 X 50 mm & 50 x 50 mm tubular pipes.
2.4.	Top Frame	Frame made of 50 X 50 mm tubular pipes
2.5.	Stiffener Top	50 x 50 mm, 25 x 50 mm & 25 x 25 tubular pipes.
2.6.	Side wall stiffeners	Corner Post shall be of 50 x 50 mm, 25 x 50 mm Square pipes & wall thickness of 50 mm.
2.7.	Exterior walls.	The external wall shall be made of 1.4 mm corrugated sheets. <ul style="list-style-type: none"> <li>• Vertical corrugated sheet panels shall be continuously welded to top and base structure to offer better strength to weight ratio.</li> <li>• All gaps at edges, seams and bottom etc shall be sealed properly to prevent ingress of moisture.</li> <li>• The roof shall be made self-draining type by giving slight slope towards rear side.</li> </ul>
2.8.	Interior	The interior wall shall be made of 8 mm thick pre-laminated sheets.
2.9.	Flooring	On the bottom 18 mm thick bison panel shall be fixed by means of self-taping screws. The flooring shall be made of 3 mm thick aluminum chequered plate.
2.10.	Paint	The structure shall be painted with one coat of zincromate primer and two coats of corrosion free Epoxy enamel Paint – All painting jobs to be done by Spray Painting.
2.11	Insulation	50 mm thick Glass wool insulation shall be used for walls and the roof shall be insulated with 75mm thick insulation
2.12.	Inner Paneling	The interior shall be aesthetically finished with high quality workmanship. • All horizontal and vertical corners shall be neatly and smoothly finished.
2.13.	Main Entry Door	The door size shall be 7 feet X 3 feet. Interior shall be finished with same material matching with that of the interior.

		<ul style="list-style-type: none"> <li>• Door shall be provided with heavy duty aldop bolt with provision to lock from outside. In addition, heavy duty tower bold shall be provided for bolting from inside.</li> <li>• The door also will have a powder coated aluminum window fitted with 4 mm thick tinted glass and grills for protection.</li> </ul>
2.14	Windows	<ul style="list-style-type: none"> <li>• There shall be five windows of size 4 feet (height) X 3 feet (width) fitted with grills for protection on each side walls (Refer the diagram).</li> <li>• The window shall be double shutter sliding type made of powder coated aluminum.</li> <li>• The sliding windows shall be fitted with 4 mm thick tinted glass.</li> </ul>
2.15.	Electrical System	<ul style="list-style-type: none"> <li>• All Electrical wiring shall be concealed.</li> <li>• Insulated Copper wires / cables of ISI quality suitable for 250V AC, 50 Hz single phase shall be used for wiring. ISI mark PVC conduits shall be used for wiring with small size distribution board with MCB protection. All PVC conduits shall be concealed.</li> <li>• There shall be provision for fixing split ACs with connections for MCB &amp; 15 Amp female plug. The hole of ACs shall be properly seaed with nuts and bolts and blind plate.</li> <li>• The cabin shall be fitted with following ISI quality electrical fixtures:- <ul style="list-style-type: none"> <li>a) Fan - 01 (ceiling fan of any of the following brands: Usha / Crompton / Bajaj / Havells / Orient)</li> <li>b) Tube Light -2 Nos.</li> <li>c) 6 Amp Point - 1 No.</li> <li>d) 15 Amp Point - 1 No.</li> <li>e) Provision for AC fitment - 1 No.</li> <li>f) Bulk Head Light (external -on door &amp; rear) - 2 Nos.</li> <li>g) MCB - 1 No.</li> </ul> </li> </ul>

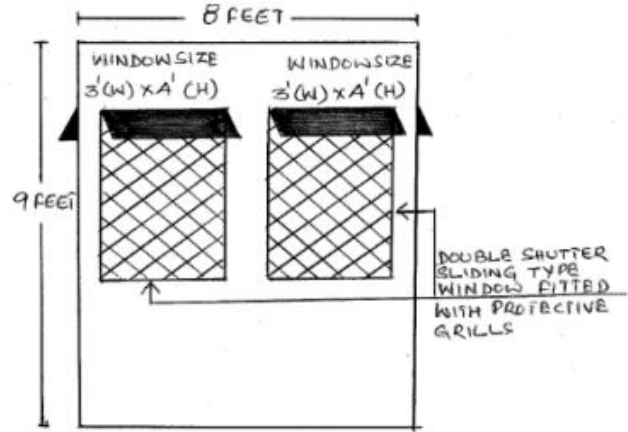




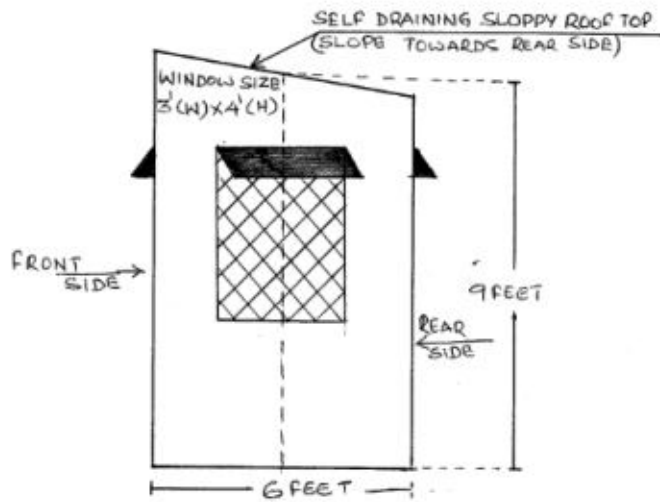
**SKETCH FOR PORTACABIN SIZE 8'X6'X9' (LXWXH)**



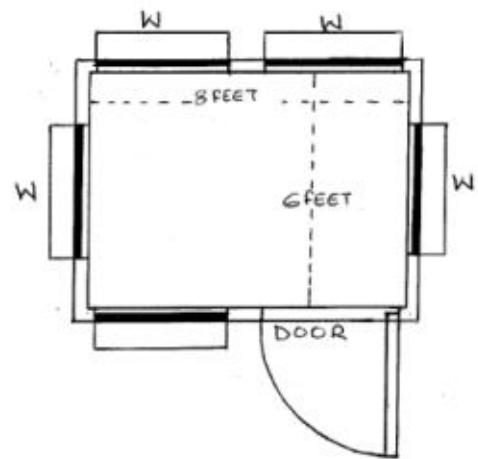
**FRONT**



**REAR**



**SIDE**



**TOP**

#### PARTICULAR SPECIFICATION: ALUMINUM WORK

Aluminum work shall be got executed from specialized agency. The specialized agency for the aluminum work shall be got approved from the Engineer-in-Charge, well before actual commencement of the item of work. Necessary performance certificates in respect of agencies proposed to be engaged shall be submitted within 30 days from the date of issue of acceptance letter to substantiate technical capability and experience of the agency for prior approval of the Chief Engineer.

Specification for Aluminum Door, Window, Ventilator

##### 1. Extent and Intent:

The work shall be carried out through an approved specialist contractor who shall furnish all materials, labour, accessories equipment tool & plant, incidental. Required for providing and installing anodized aluminum door, windows, claddings, louvers and other items as called for on the drawings. The drawings and specifications cover the major requirement only. The supplying of additional fastenings, accessory features and mentioned specifically herein but which are necessary to make a complete installation shall be a part of the contract.

##### 2. General :

Aluminum doors, windows etc. shall be of sizes, section detail as shown on the drawings. The details shown on the drawings indicate generally the sizes of the components parts and general standards. These may be varied slightly to suit the standard adopted by the manufacture. Before proceeding with any manufacturing, the contractor shall prepare and submit complete manufacturing and installation drawings for approval of Engineer-in Charge and no work shall be performed until the approval of these drawings is obtained.

##### 3 Shop Drawings :

The contractor shall submit the shop drawings of doors, windows louvers cladding and other aluminum work, based on architectural drawings to Engineer-in-Charge for this approval. The drawings shall show full size sections of door, window etc. thickness of metal (i.e. wall thickness) details of construction, sub frame / rough ground profile anchoring details, hardware as well as connection of windows doors, and other metal work to adjacent work. Samples of all joints and methods of fastening and joining shall be submitted to the Engineer-in-Charge for approval well in advance of commencing the work.

##### 4 Samples :

Samples of doors, windows, louvers etc shall be fabricated assembled and submitted to the Engineer-in-Charge for his approval. They shall be sizes, types etc. as decided by Engineer-in-Charge. All samples shall be provided the cost of the contractor.

##### 5 Sections :

Aluminum doors and windows shall be fabricated from extruded section of profiles as detailed on drawings. The sections shall be extruded by the manufacturers approved by the Engineer-in-Charge. The aluminum extruded section shall conform to IS designation 63400 WP (HV9WP old designation) with chemical composition and technical properties as per IS : 733 and 1285. The

permissible dimensional tolerance of the extruded sections shall be such as not to impair the proper and smooth function / operation and appearance of doors and windows.

#### 6 Fabrications :

Doors, window etc. shall be fabricated to sizes as shown at factory and shall be of section, sizes combinations and details as shown in the Architectural drawings, all doors, windows etc. shall have mechanical joints. The joints shall be designed to withstand a wind load of 150 kgs. Per sqm the design shall also ensure that the maximum deflection of any member shall accurately machined and fitted to form hairline joints prior to assembly. The join and accessories such as cleats brackets, etc. shall be of such materials as not to cause any bi-metallic action, the design of the joints and accessories shall be such that the accessories are fully concealed. The fabrication of doors, window etc. shall be done in suitable sections to facilitate easy transportation, handing and installation Adequate provision shall be made in the door and windows members for anchoring to support and fixing of hardware and other fixture as approved by the Engineer-in-Charge.

#### .7 Anodising :

All aluminum sections shall be anodized as per IS : 7088 and to required colour as specified in the item as per IS : 1868 grading, after cutting the members to requisite sizes. Anodizing shall be to the specified grade with minimum average thickness of 15 microns when measured as per IS : 6012. The anodic coating shall be properly sealed by steams or by boiling in deionized water or cold sealing process as per IS : 1868 / IS : 6057. Polythene tape protection shall be applied on the anodized sections before they are brought to site. All care shall be taken to ensure surface protection shall be removed on transportation, storage at site and installation. The tape protection shall be removed on installation. The sample will be tested in the approved laboratory and cost of samples, cost or testing shall be borne by the contractor.

#### 8 Powder Coating :

The powder used for powder coating shall be polyster powder made by Berger or Jenson & Nicholsion or equivalent. The thickness of powder coating shall not be less than 50 micron at any point measured with micrometer.

#### 9 Protection of Finish :

All aluminum members shall be wrapped with approved self-adhesive non-staining PVC tapes.

#### 10 Handling and stacking :

10.1 Fabricated materials shall be carted in an approved manner to protect the material against any damage during transportation. The loading and unloading shall be carried out with utmost care. On receipt of materials at site, they shall be carefully examined to detect any damaged pieces. Arrangements shall be made for expeditious replacement of damaged pieces / parts. Material found to be acceptable on inspections shall be repacked in crates and stored safely.

10.2 In the case of composite windows, and doors the different units are to be assembled first. The assembled composite units should be checked for line, level and plumb before final fixing is

done. Unit may be serial numbered and identified as how to be assembled in their final location of situation so warrants.

10.3 Where aluminum comes in to contact with masonry brick work / concrete / plaster or dissimilar metals. It shall be coated with approved insulation lacquer paint or plastic tape to ensure that electro chemical corrosion is avoided. Insulation materials shall trimmed off to clear flush line on completion.

10.4 Silicon Sealant :

The peripheral gaps between plastered faces / RCC and aluminum sections shall be sealed both from inside and out side to make the windows watertight. Gaps upto 10mm between the peripheral aluminum member and masonry /RCC/ Stone shall be sealed by inserting. Backer Rod manufactured by HT TROPLAST or Supreme Industries and by application of weather silicon / sealant of DOW corning / GE silicon make.

10.5 The contractor shall be responsible for assembling composite, bedding set straight plumb, level and for their satisfactory operation after fixing is complete.

11 Installation :

11.1 Just prior to installation the doors, windows etc. shall be uncrated and stacked on edge on level bearers and supported evenly. The frame shall be fixed in to position true to line and level using adequate number of expansion machine bolts, anchor fasteners of approved size and manufacture and in an approved manner. The holes in concrete / masonry members for housing anchor bolts shall be drilled with an electrical drill.

11.2 The doors windows assembled as shown on drawings shall be placed in correct final position in this opening and marks made on concrete members at jambs, sills and heads against the holes provided in frames for anchoring. The frame shall then be removed the n the opening and laid aside. Neat holes with parattle sides of appropriate size shall then be drilled in the concrete members with an electric drill at the marking to house the expansion bolts. The expansion bolts shall then be inserted in the holes, struck with a light hammer till the nut is forced in to the anchor shall. The frame shall then be placed in final position. In the opening and anchored to the support through cadmium plated machine screws of required sized threaded to expansion bolts. The frame shall be set in the opening by using wooden wedges at supports and be plumbed in position. The wedges shall invariably be place at meeting points of glazing bars and frames.

11.3 Neoprene Gaskets :

The E.P.D.M. gasket of suitable profile as manufactured by HANU INDUSTRIES, ANNAND LESCUYER make shall be provided at all required positions to make the glazing airtight. The contractor shall provide and install Neoprene Gaskets of approved size and profile at all locations as shown and as called for to render the doors windows etc. absolutely air tight and weather tight. The contractor shall submit samples of the gaskets for approval and procure after approval only.

11.4 Fittings :

The contractor shall cut the floor properly with stone cutting machine to exact size and shape. The spindle of suitable length to accommodate the floor finish shall be used. The contractor shall



give the guarantee duly supported by the company for proper functioning of floor springs at least for 10 years. Hinges, stays handles, tower bolts, locks and other fittings shall be of quality and manufacturer as approved by the Engineer-in-Charge.

**12 Manufacture's Attendances :**

The manufacture immediately proper to the commencement of glazing shall adjust and set all windows and doors and accept responsibility for the satisfactory working of the opening frames.

**13 Details of Test :**

13.1 The various tests on aluminum sections shall be conducted in accordance with the relevant IS codes.

13.2 The minimum number of each unit of doors/ windows shall be selected at random by Engineer-in-Charge as such that all the aluminum section shall be got tested.

13.3 The sample of major member of each unit of doors / windows shall be selected at random by Engineer-in-Charge as such that all the aluminum section shall be got tested.

13.4 The cost of sample carriage of the samples shall be borne by the contractor. Testing charges shall be born by department, but if a sample fails in testing, complete cost or testing charges shall be born by the contractor.

**14 Acceptance Criterion :**

The aluminum sections shall conform to the provisions of the relevant items. For payment purpose only actual weight of sections shall be taken into account. If however, the sectional weight of any aluminum section is higher than the permissible variation then the weight payable shall be restricted to the weight of the section including permissible variation.

**15 Measurement :**

Payment by weight shall be made for aluminum sections including beading only and all fixing angles cleats fittings and fixtures such as handles and hinges etc., shall not be included in the weight to be paid.

**16 Rates :**

The rates of the items shall include the cost of all materials, labors and inputs required and all the above operations.

**LIST OF APPROVED PRODUCTIS FOR WORKS:**

1 Aluminium sections (Anodising by approved anodizing firm): Hindalco, Jindal, Indian Aluminum Co.

2 Clear Glass :Modiguard, Saint Gobain, Joll

**Section F**  
**SAFETY CODE**

1. First aid appliances including adequate sterilized dressings and cotton wool shall be kept in a readily accessible place.

2. An injured person shall be taken to a public hospital without loss of time, in case where the injury necessitates hospitalization.
3. Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from ground.
4. No portable single ladder shall be over 8 metres in length. The width between the side rails shall not be less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall be engaged for holding the ladder.
5. The debris material shall not be placed within 1.5 metres of the edge of the building.
6. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing the minimum height or which shall be 1 metre.
7. No floor, roof or other part of the structure shall be so overloaded with debris or materials as to render it unsafe.
8. Workers employed on mixing and handling material such as brick mortar, cement mortar or concrete shall be provided with protective footwear and rubber hand gloves.
9. i) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.  
ii) Suitable facemasks should be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scraped.
10. Hoisting machines and tackle used in the works, including their attachments, anchorage and supports shall be in perfect condition.
11. The ropes used in hoisting or lowering material or as a means of suspension shall be of durable quality and adequate strength and free from defects.
12. Safety belts should be used while executing the external painting / plastering, crack filling, etc. works on the building. The entire work needs to be supervised by an experienced supervisor.
13. Bank may appoint a technically qualified supervisor / consultant for supervision of works. The contractor is required to comply the instructions given by him on the advice of the Bank.

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## ANNXURE-I

### ARTICLES OF AGREEMENT

ARTICLE OF AGREEMENT made on this \_\_\_ day of \_\_\_\_\_, 2019 at **Swavalamban Academic Centre, Bhubaneswar** BETWEEN Small Industries Development Bank of India (SIDBI), a Corporation established under the Small Industries Development Bank of India Act, 1989 (39 of 1989) and having its Head Office at 15, Ashok Marg, SIDBI TOWER, 15, Ashok Marg, Lucknow– 226 001 and its training Institute at Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square, Bhubaneswar - 751013, Odisha, hereinafter called “Employer” (which expression, unless it be repugnant to the subject or context thereof, include its successors and assigns) is desirous of getting the work of **Repairs, Renovation & civil work at Swavalamban Academic Centre [ formerly SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola School, Near XIMB Square Bhubaneswar - 751013, Odisha.**

Tender are done and has caused tender and specifications describing the works to be done.

AND WHEREAS the said tender documents with Specifications and the Schedule of Quantities have been signed by or on behalf of the parties hereto.

AND WHEREAS the Contractor has agreed to execute upon and subject to the conditions set forth in the Conditions and in the Schedule of Quantities and Conditions of Contract (all of which are collectively hereinafter referred to as “the said Conditions”) the works shown upon in the said Tender and/or described in the said Specification and included in the said Schedule of Quantities at the respective rates therein set forth amounting to Rs. \_\_\_\_\_ payable thereunder (hereinafter referred to as “the said Contract Amount”).

#### **NOW IT IS HEREBY AGREED AS FOLLOWS:**

1. In consideration of the said Contract Amount to be paid at the time and in the manner set forth in the said Conditions, the Contractor shall upon and subject to the said Conditions execute and complete the work shown upon the said Tender and described in the said Specifications and the Schedule of Quantities.
2. The Employer shall pay the Contractor the said Contract Amount, or such other sum as shall become payable, at the times and in the manner specified in the said Conditions.
3. The said Conditions and Appendix hereto and the correspondences attached hereto shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by, and submit themselves to the said Conditions and the correspondences and perform the agreements on their part respectively in the said Conditions and the correspondences contained.
4. The agreement and documents mentioned herein shall form the basis of this Contract.





5. This Contract is an item rate contract to be paid for according to the completion of work as contained in Schedule of Quantities or as provided in the said Conditions and all as per Specifications and working Tender.
6. The Contractor shall afford every reasonable facility for carrying out all works of other contractors appointed by the Employer and shall make good any damages done to walls, floors, etc after the completion of such works.
7. Time shall be considered as the essence of this Contract, and the Contractor hereby agrees to commence the work/ job from the first day of issue of formal work order as provided for in the said Conditions and to complete the entire work within **3 (three) months** subject to nevertheless to the provisions for extension of time.
8. All payments by the Employer under this Contract will be made only at Bhubaneswar.
9. All disputes arising out of or in any way connected with this Agreement shall be deemed to have arisen at Bhubaneswar and only Courts in Bhubaneswar shall have jurisdiction to determine the same.
10. That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor.

IN WITNESS WHEREOF the Employer and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first hereinabove written. If the contractor is a Company IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized official and the Contractor has caused its common seal to be affixed hereunto and the said two duplicates/has caused these presents and the said duplicates hereof to be executed on its behalf, the day and year first hereinabove written.

**Signature clause:**

SIGNED AND DELIVERED by the Small industries Development Bank of India  
India By the hand of Shri \_\_\_\_\_

\_\_\_\_\_  
(Name and designation)

\_\_\_\_\_ in the

presence of

1) \_\_\_\_\_

Address \_\_\_\_\_

2. \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
Witnesses



If the party is a partnership firm or an individual should be signed by all or on behalf of all the partners.

SIGNED AND DELIVERED by \_\_\_\_\_

\_\_\_\_\_

in the presence of

1) \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Witnesses

The COMMON SEAL OF \_\_\_\_\_

Was hereunto affixed pursuant to the resolutions passed by its Board of Directors at the meeting held on

\_\_\_\_\_ in the presence of

1. \_\_\_\_\_

2. \_\_\_\_\_

If the contractor signs under its common seal, the signature clause should tally with the sealing clause in the Articles of Association.

Directors, who have signed these presents in token thereof in the presence of :-

1. \_\_\_\_\_

2. \_\_\_\_\_

If the contractor is signing by the hand of power of attorney, whether a company or an individual.

SIGNED AND DELIVERED BY the Contractor by the hand of Shri \_\_\_\_\_

\_\_\_\_\_ and duly constituted attorney.



## Annexure II

### Proforma of Indemnity Bond

To,

**The Astt. General Manager**  
**Swavalamban Academic Centre**  
**[Formerly SIDBI MSME International Training Institute(SITI)]**  
**Plot No.L-3, Jayadev Vihar,**  
**Opp. Loyola School,**  
**Near XIMB Square,**  
**Bhubaneswar - 751013, Odisha,**  
Phone No: 0674-2304102

Dear Sir,

**TENDER FOR Repairs, Renovation & civil work at Swavalamban Academic Centre [formerly  
SIDBI MSME International Training Institute(SITI)], Plot No.L-3, Jayadev Vihar, Opp. Loyola  
School, Near XIMB Square  
Bhubaneswar - 751013, Odisha.**

KNOW all men by these presents that We M/s. \_\_\_\_\_ within the meaning  
of companies Act 1956 and having registered office at \_\_\_\_\_  
\_\_\_\_\_ (hereinafter referred to as “the  
Indemnifier”) do hereby execute indemnity bond in favour of SIDBI, having their Head Office at  
15,Ashok Marg,SIDBI TOWER, 15, Ashok Marg, Lucknow – 226 001.

WHEREAS the SIDBI have appointed \_\_\_\_\_ as the Contractors for  
the captioned work

THIS DEED WITNESS AS FOLLOWS :

We, \_\_\_\_\_ hereby do indemnify and save harmless SIDBI against  
and from :

1. any third party claims, civil or criminal complaints / liabilities, site mishaps and other accidents  
of disputes and / or damages occurring, or arising out of any mishaps at the site due to faulty  
work, negligence, faulty construction and/or for violating any law, rules and regulations in force,  
for the time being while executing/executed renovation works by us.



2 any damages, loss or expenses due to or resulting from any negligence or breach of duty on the part of us or any sub-contractor/s if any, servants or agents.

3 any claim by an employee of ours or sub-contractor/s, if any, under the Workmen Compensation Act 1923 and Employers Liability Act, 1938 or any other law rules and regulations in force for the time being and any acts replacing and/or amend the same or any of the same as may be in force at the time and under any law in respect of injuries to persons or property arising out of and in the course of execution of the contract work and/or arising out of and in the course of employment of any workmen/employee.

4. any accident or mishap during execution of work.

5. any act or omissions of ours or sub-contractor/s if any, our/their servants or agents which may involve any loss, damage, liability, civil or criminal action.

IN WITNESS WHEREOF THE Indemnifier has caused these presents by the duly authorised official at the place and on the day, month and year written herein below.

SIGNED AND DELIVERED BY THE  
WITHIN NAMED INDEMNIFIER.

Date:

Place: **Swavalamban Academic Centre** , Bhubaneswar



### Annexure III

#### **Proforma of Performance Guarantee for water-proofing**

[5 years Guarantee after virtual completion of work ]

**The Astd. General Manager,  
Swavalamban Academic Centre  
[Formerly SIDBI MSME International Training Institute(SITI)]  
Plot No.L-3, Jayadev Vihar,  
Opp. Loyola School,  
Near XIMB Square,  
Bhubaneswar - 751013, Odisha,**

We M/s. \_\_\_\_\_ \_have completed the work of **Repairs, Renovation & civil work at Swavalamban Academic Centre [formerly SITI], Bhubaneswar, Odisha.** We have read and understood the scope and responsibility of the waterproofing paint and treatment as provided for in tender and accordingly as a contractor engaged by Small Industries Development Bank of India (SIDBI) for the same, we have treated the abovementioned surface/areas as per specifications for works.

We hereby states that if at any time / times within 5 years of virtual completion of said work the external surface and other portion treated by us starts leaking or in any way get damaged to the influence of seeping water including forming wet patches, dampness etc. either due to the inadequacy of the work carried out or due to any other reason whatsoever relating to the specifications, workmanship etc.. We, the M/s \_\_\_\_\_ hereby undertake and guarantee to carry out necessary remedial measures to such extent and so often as may be necessary to free the premises from such leakages, dampness without any extra cost to the Employer (Small Industries Development Bank of India). The decision of the Employer in regard to the question as to whether there is any leakage or the treatment has given way to water or moisture, shall be treated as final and binding on us. We also undertake to reinstate the surface disturbed due to seepage and said rectification work to its original condition after carrying out the rectification work, if necessary, by bringing new materials at no extra cost to the Employer. If we fail to execute the necessary rectification work after receipt of necessary notice, SIDBI is free to recover appropriate amount from our pending bills, Retention Money Deposit (RMD) or other means, as possible. If the actual cost of rectification is more than the amount due to us the balance amount shall be paid by us to SIDBI.

Date: Signature

M/s \_\_\_\_\_

Place: (Name of the contractor)



## **PART-III (EXCEL SHEET)**

### **BILL OF QUANTITIES (BoQ)**

### **PRICE BID**