



भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर  
**Indian Institute of Technology Bhubaneswar**  
अरगूल/Argul, जटनी/ Jatni, खुरधा / Khurda, ओडिशा/ Odisha- 752050  
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**ENGINEERING SECTION/अभियांत्रिकी अनुभाग**

**SHORT QUOTATION CALL NOTICE**

No.IITBBS/SE/Engg.Cell/06/2024-25

Dt.29.10.2024

The Executive Engineer, IIT BBS invites sealed quotations from eligible contractors for the following work.

**Name of Work: Water proofing treatment for both side terrace RCC gutters of SMS industrial shed (FD Lab) of IIT Bhubaneswar.**

Estimated Cost (in Rs.)	Time period of Completion	Last date & time of receipt of tender	Date and time of opening
38,211/-	15(fifteen) days	05.11.2024 up to 2.00 PM	05.11.2024 at 2.30 PM

Intending eligible suppliers must enclose Pre-qualification documents i.e. attested true copies of original documents such as GST registration certificate & PAN in a sealed envelope. The terms and conditions as per Annexure-II shall apply for the quotation. The quotation document should be collected either from the office of the Superintending Engineer, located at 3<sup>rd</sup> floor of Main Administrative building of the Institute at Argul or may be downloaded from the website www.iitbbs.ac.in. The document at Annexure-I & Annexure-II duly filled up and signed by bidders must be enclosed in a sealed envelope marked document for **Water proofing treatment for both side terrace RCC gutters of SMS industrial shed (FD Lab) of IIT Bhubaneswar** and submitted at Office of SE, IITBBS as per schedule mentioned above. Mr. D.R.Pattanaik, AEE(Civil) may be contacted over telephone No.0674-7138664 in case of any further clarification.

The sealed envelope will be opened at scheduled date and time mentioned above. The bidder may be present at the office well before the scheduled time of opening of the bids for witnessings.

The department reserves the right to reject any prospective application without assigning any reason.

**Executive Engineer(C)**

Copy To: 1 Notice Board.

**QUOTATION SCHEDULE**

**Name of the work: Water proofing treatment for both side terrace RCC gutters of SMS industrial shed (FD Lab) of IIT Bhubaneswar**

Sl. No.	Item Description	Quantity	Units	Rate in Rs.	Amount in Rs.
1.	Providing and laying water proofing treatment for roof including cost of all material, labour, transportation, T&P etc. all complete as per the direction of Engineer-in-charge with following procedures with 5 year warranty for the work.	46.26	Sqm	₹ 700.00	₹ 32,382.00
(a)	<p>Surface Preparation:</p> <p>i) The roof surface must be pressure washed with water to remove all dirt, dust, chalking and waste products.</p> <p>ii) Check the soundness of the top screed, half round angle fillet/unsound plaster on vertical surface/joints surrounding pipe ducts of rainwater outlet, look for de-bonding signs by tapping with nylon hammer and should be repaired.</p> <p>iii) Stagnant water due to undulation in the roof surface should be marked and repaired with PMM.</p> <p>iv) All joints/corners/penetration points, rainwater outlets, marble/tile strip joints should be grouted with polymer modified mortar (PPM).</p>				
(b)	<p>Water proofing of cracks and joints</p> <p>i) All visible cracks more than 0.50mm and not giving hollow sound, on the IPS/screed or at the junction of flat roof and vertical parapet wall, pipe joints should be checked for soundness.</p> <p>ii) Cut and widen all cracks in V shape with mechanical cutter in the size (8mm W x 10mm D).</p> <p>iii) Clean cracks, of dust, residue or other contamination, primer locally with the Dr. Fixit pidiprime A with brush and allow to cure tack free. Fill all prepared cracks in screed with Dr. Fixit PU Sealant. Allow the sealant to air cure for 24 Hrs.</p> <p>iv) Apply a coat of Dr. Fixit Roof seal Ultra or equivalent reinforce with, 45 gsm glass fiber mesh cut to fit size in minimum 100mm wide centered over all cracks and while wet, cover, press the mesh it to soak. Then apply another coat of Dr. Fixit Roof seal Ultra or equivalent, until it is fully covered. Allow both the coats to cure for 5-6 hours to cure.</p>				
(c)	<p>Screed repair</p> <p>i) Check the existing roof surface with nylon hammer and remove the existing unsound, de-bonded screed, surface defects, etc. Break and remove the hollow should screed and plaster surface with mechanical cutter.</p> <p>ii) Clean the surface and brush apply a bond coat of Dr. Fixit Pidicrete URP or equivalent mix in the ratio</p>				

Sl. No.	Item Description	Quantity	Units	Rate in Rs.	Amount in Rs.
	<p>of 1:1 (URP 1: Cement1) by volume to make it lump free slurry when applied on in the pre wet surface.</p> <p>iii) Mix Dr. Fixit pidicrete URP or equivalent 10% by weight of cement in (M20) concrete in ratio of 1:1.5:3 i.e. one bag of 50 Kg cements: 1.5 times volume of sand:3 times volume of aggregates: 25L water, Level the repair mortar and finish with trowel.</p> <p>iv) Moist wet curing must be done up to 3-4 days. Prolonged wet curing will minimizes the chances of cracking and improve the physical properties.</p>				
(d)	<p>Waterproofing application</p> <p>i) Dilute 2 parts of Dr. Fixit Prime seal or equivalent with 1 one part of water to 8 sqmt . Allow primer coat to dry for 6 to 8 hrs. Stir well before use. Apply 1st coat of Dr. Fixit Roof seal Ultra or equivalent waterproof coating without dilution spreading at the rate of 0,70 litre/Sqmt/Coat.</p> <p>ii) Lying of 4.5 GSM fiber glass mesh incorporated in the coating as a sandwich layer when the first coat is still in wet condition.</p> <p>iii) Allow the first coat to dry for approximately 4-6 hours before applying the 2nd coat at 90 degree to the first coat.</p> <p>iv) Apply second coat of Dr. Fixit roof seal Ultra or equivalent waterproof coating without dilutiion spreading at the rate of 0.70 litre/Sqmt/coat in forced coverage, with total material consumption of 1.40 Ltr/Sqmt in 2 coats. Ensure there are no pinholes or air bubbles on the membrane.</p> <p>iv) Allow the system to air cure for 7 days minimum.</p>				
(e)	<p>Post application</p> <p>i) Conduct pond test after 7 days , Stagnated water up to 50mm height for 24 hrs.</p>				
	<b>Total</b>				<b>₹ 32,382.00</b>
	Add GST@ 18%				₹ 5,828.76
	G.Total				<b>₹ 38,210.76</b>
	Say				<b>₹ 38,211.00</b>
	<b>(B)Add/Below _____% (percentage) above/at par/below the total above(A)</b>				
	<b>Total (A+B)</b>				

Total Amount in Figure/Words-----

Signature of the Contractor

Executive Engineer (Civil)

**TERMS AND CONDITIONS**

01. **Scope of works:** Details enclosed at Annexure-III
02. **Taxes and Duties:** The rate and amount mentioned in the schedule is inclusive of all taxes and duties, royalty of whatever nature, octroi, other local taxes etc if any, including works contract tax. GST as applicable for autonomous government entity like IIT Bhubaneswar i.e 18% will be paid above the quoted price & such GST will be reimbursed after submission of proof of actual payment and tax Invoice.
03. **Time of completion:** Time is the essence of the Contract. The entire scope of work shall be completed within **15(fifteen) days** from the date of issue of work order.
04. **Specification:** The execution of work should be done at site as per the specifications and material approved by the Engineer-in-Charge.
05. **Terms of Payment:** The payment shall be made as per actual measurement of work after successful completion of the work to the satisfaction of Engineer-in-charge and submission of GST invoices in the name of IIT Bhubaneswar . The GST No. 21AAAAI2760A1ZJ to be reflected in invoice.
06. **Security Deposit (SD):** Security deposit @ 5% of the gross amount of the bill shall be deducted from all running account and final bills and will be kept as security deposit in IIT Bhubaneswar. S.D can be released after successful completion of work and completion of the defect liability period of **1(one) year** from the date of completion of work.
07. **Warranty:** The agency has to produce a warranty certificate of five year with respect of the work done for which the agency has to rectify the defects free of cost within the warranty period.
08. The Contractor will make arrangements for storage requirements, working space inside the campus and clear all the dust and debris from site.
09. **Paying Officer:** Registrar, IIT Bhubaneswar.
10. **Labour License:** The tenderer has to abide by the labour rules & regulations as per Govt. of Odisha /Govt. of India.
11. **Jurisdiction of the court:** Dispute/Litigation if any, arising out of the contract shall be deemed to have been entered into at Bhubaneswar under jurisdiction of Bhubaneswar Court.
12. Corrigendum /Addendum notice if any will only be uploaded in the web site of IIT Bhubaneswar [www.iitbbs.ac.in](http://www.iitbbs.ac.in) (Tenders). There will be no press publication in this regard. Bidders are required to check the Corrigendum /Addendum notice if any in our web site, before finally submitting the bid.

Signature of the Contractor

Executive Engineer (Civil)

## **SCOPE OF WORK**

1. Surface preparation and water proofing for the RCC gutter at both sides of the roof shed of FD Lab at Industrial shed of SMS.
  - a. Surface Preparation:
    - i) The roof surface must be pressure washed with water to remove all dirt, dust, chalking and waste products.
    - ii) Check the soundness of the top screed, half round angle fillet/unsound plaster on vertical surface/joints surrounding pipe ducts of rainwater outlet, look for de-bonding signs by tapping with nylon hammer and should be repaired.
    - iii) Stagnant water due to undulation in the roof surface should be marked and repaired with PMM.
    - iv) All joints/corners/penetration points, rainwater outlets, marble/tile strip joints should be grouted with polymer modified mortar (PPM).
  - b. Water proofing of cracks and joints
    - i) All visible cracks more than 0.50mm and not giving hollow sound, on the IPS/screed or at the junction of flat roof and vertical parapet wall, pipe joints should be checked for soundness.
    - ii) Cut and widen all cracks in V shape with mechanical cutter in the size (8mm W x 10mm D).
    - iii) Clean cracks, of dust, residue or other contamination, primer locally with the Dr. Fixit pidiprime A with brush and allow to cure tack free. Fill all prepared cracks in screed with Dr. Fixit PU Sealant. Allow the sealant to air cure for 24 Hrs.
    - iv) Apply a coat of Dr. Fixit Roof seal Ultra or equivalent reinforce with, 45 gms glass fiber mesh cut to fit size in minimum 100mm wide centered over all cracks and while wet, cover, press the mesh it to soak. Then apply another coat of Dr. Fixit Roof seal Ultra or equivalent, until it is fully covered. Allow both the coats to cure for 5-6 hours to cure.
  - c. Screed repair
    - i) Crack the existing roof surface with nylon hammer and remove the existing unsound, de-bonded screed, surface defects, etc. Break and remove the hollow should screed and plaster surface with mechanical cutter.
    - ii) Clean the surface and brush apply a bond coat of Dr. Fixit Pidicrete URP or equivalent mix in the ratio of 1:1 (URP 1: Cement1) by volume to make it lump free slurry when applied on in the pre wet surface.
    - iii) Mix Dr. Fixit pidicrete URP or equivalent 10% by weight of cement in (M20) concrete in ratio of 1:1.5:3 i.e. one bag of 50 Kg cements: 1.5 times volume of sand:3 times volume of aggregates: 25L water, Level the repair mortar and finish with trowel.
    - iv) Moist wet curing must be done up to 3-4 days. Prolonged wet curing will minimizes the chances of cracking and improve the physical properties.
  - d. Waterproofing application
    - i) Dilute 2 parts of Dr. Fixit Prime seal or equivalent with 1 one part of water to 8 sqmt . Allow primer coat to dry for 6 to 8 hrs. Stir well before use. Apply 1st coat of Dr. Fixit Roof seal Ultra or equivalent waterproof coating without dilution spreading at the rate of 0,70 litre/Sqmt/Coat.
    - ii) Lying of 4.5 GSM fiber glass mesh incorporated in the coating as a sandwich layer when the first coat is still in wet condition.
    - iii) Allow the first coat to dry for approximately 4-6 hours before applying the 2nd coat at 90 degree to the first coat.
    - iv) Apply second coat of Dr. Fixit roof seal Ultra or equivalent waterproof coating without dilution spreading at the rate of 0.70 litre/Sqmt/coat in forced coverage, with total material consumption of 1.40 Ltr/Sqmt in 2 coats. Ensure there are no pinholes or air bubbles on the membrane.
    - iv) Allow the system to air cure for 7 days minimum.
  - e. Post application
    - i) Conduct pond test after 7 days , Stagnated water up to 50mm height for 24 hrs.