JUNAGADH AGRICULTURAL UNIVERSITY



TENDER DOCUMENT FOR THE [TECHNICAL BID] BY

Executive Engineer Junagadh Agricultural University, Junagadh- 362 001 Telephone No. <u>0285 2670207,</u> E. Mail: exeengg@jau.in



જૂનાગઢ કૃષિ યુનિવર્સિટી, જૂનાગઢ

જા દેર નિવિદા નં. ૬ (૨૦૨૦-૨૧) (ત્રીજો પ્રયત્ન) કાર્ચપાલક ઇજનેસ્શ્રી, જૂનાગઢ કૃષિ ચુનિવર્સિટી, જૂનાગઢ (ફોન નં. ૦૨૮૫-૨૬૭૦૨૦૭) ની કચેરીએથી સિવિલ કામ માટે અંદાજીત કિંમત રૂા. ૪.૭૧ લાખ ના કામ માટે વેબ મેઇલીંગ પધ્ધતીથી આઇટમ રેટ ટેન્ડર હાર્ડ કોપી મારફત મંગાવવામાં આવે છે. આ અંગેની જાહેરાત યુનિવર્સિટી વેબસાઇટ www.jau.in ઉપર તા.૨૪.૦૭.૨૦૨૦ થી મુકવામાં આવશે. જે મુજબ ભાવો સીલ બંધ કવરમાં તા.૦૫.૦૮.૨૦૨૦ સુધીમાં (૧૮.૦૦) કલાક સુધીમાં કચેરીમાં મોકલવાના રહેશે. વધુ માહિતી કામકાજના દિવસો દરમ્યાન ઉપરોક્ત કચેરીનો સંપર્ક સાંધવાથી મળી શકશે.

Bid Reference :		
Period for downloading and submission of tender	:	Dt.: 24-07-2020 to 05-08-2020
documents by R.P.A.D/Speed post		up to 18.00 hrs.
Physical submission of Tender Fee, EMD, other	:	Up to 05-08-2020 18.00 hrs.
relevant documents as per check list of the tender		to the office of the Executive Engineer,
as well as company printed literature other		Junagadh Agri. University, "Mangal Nivas",
necessary documents by R.P.A.D./Speed Post		Near Aksharvadi, B/h. Rajmoti Society,
		Vanthli Hiway Road, Junagadh-362 001
Probable date for opening of primary bid and	:	Dt. : 06-08-2020, 10.30 AM onward
verifying physically submitted documents and		
commercial bid		

***Tender fees of** ₹ 900/- (Non Refundable) through Demand Draft (DD) in favour of "J.A.U., Fund Account" SBI code: 60218 non refundable for entire tender

***EMD** for an amount of Rs.5,000/- (Rupees Five Thousands only) through Demand Draft / F.D.R. in favour of "J.A.U., Fund Account" SBI code: 60218 (Refundable)

*Note: The bidder will be entitled for immediate disqualification, if fails to submit the physical documents within time limit.

*This tender consists of following Two parts

- [A] Envelop-1: Technical Bid
 - Tender Fees, EMD, Tender Supporting Document as per checklist & terms conditions.
- [B] Envelop-2: Price Bid

[C] Please Mention Name Of Work "Providing and Applying the Elastomeric Joint Sealant for Expansion Joint of Agriculture College Building at J.A.U., Porbandar" on both envelops.

Sr.	Document / Certificate	Attached	Yours
No.		Yes /No	Page No.
1.	Tender Fee: Demand draft of Rs. 900/- (Non-Refundable)		
2.	Earnest Money Deposit (EMD) of Rs. 5,000/- in the form of		
	Fixed Deposit Receipt / Demand draft / FDR only		
	(Refundable)		
3.	Vendors Profile, Company details		
4.	Partnership deed, Memorandum of article, Registration of		
	firm etc.		
5.	G.S.T/VAT registration		
6.	Pan Card		
7.	Income Tax Return for last years (Assessment year 2017-18,		
	2018-19, 2019-20)		
8.	Affidavit of Non-black list (on Non-judicial stamp paper of		
	Rs. 100) of any institute/ organization		
9.	Valid authorized dealer certificate for materials		
10.	An applicator shall be certificate by company, Only		
	authorized certified applicator can quote the rate.		
11.	Guarantee/warranty obligation by tenderer / authorized		
	applicator		

TENDER SUPPORTING DOCUMENTS DETAIL

Note: 1) All photocopied documents must be attested with Seal and Signature.

2) All documents original shall be verified before works order.

DECLARATION

It is verified that all the certificates/permissions/documents are currently valid as on date and have not been withdrawn/cancelled by the issuing authority. It is further verified that the certificates are as per the format and it is clearly and distinctly understood by us that the tender is liable to be rejected if on scrutiny any of these certificates is found not to be as per the prescribed format.

We further agree to produce on demand the original certificate/permission/ documents for verification at any stage during the processing of the tender.

We solemnly declare that we have attached all the documents mentioned herein above in the tender. We also understand that non-compliance of any documents will be treated as nonrespective tender and we will lose our claim to participate in the Tender Enquiry automatically and our tender will be liable to be rejected

Name of the Firm:

Authorized Signature:

Name: Designation:

Seal of firm:

COMPANY DETAIL

1. Name of firm	:
2. Complete postal address	:
3. Telephone Number	:
4. FAX Number (if any)	:
5. E-mail address (if any)	:
6. GST No.	:
7. Registration No. (if any)	:

8. Any other details:

We agree to abide by the terms and conditions of supply mentioned in this tender document

Signature of Tenderer

(With Stamp, Name & Designation)

- 1. Tender Fee Details: (Rs.900/-) DD in favour of "J.A.U., Fund Account"
- a. Name and Address of Tenderer

Sr. No.	Particulars	Number	Date	Amount (Rs.)	Drawn on (Please mention <u>Name of Bank)</u>	Branch &Place
1	Demand Draft			900/-		

2. Details of Demand Draft:

3. Format for EMD to be filled in the letter pad by the tenderer:

EMD in form of FDR / DD "J.A.U., Fund Account"

Serial No.	EMD Details
	F.D.R. / DD No. :
	Rs. 5,000/-
	Bank :

4. <u>Adhesive stamp</u>: - as per state Government prevailing rules.

Terms & Conditions

1.	The tender should be accompanied by Tender fees of ₹ 900/- (Non Refundable) through Demand Draft (DD) in favour of "J.A.U., Fund Account" SBI code: 60218
2.	Earnest Money Deposit (EMD) of Rs. 5,000/- for in the form of FDR/DD
	(Refundable) only in the name of "J.A.U., Fund Account" in the Envelope-1.
	Quotation without EMD will not be considered. The EMD of disqualified tenderers will be returned within three months.
3.	The Earnest Money Shall forfeited if any tenderer :
5.	 Withdraws his offer after the opening of the tender,
	Fails to execute the terms of supply order accordingly to his tender; and.
	 Fails to deposit the amount of security deposit.
4.	Eligibility criteria of Technical qualification of Tender:
''	• Tenderer must have to physically submit the all documents as per check list
	and terms & conditions of tender.
	• All tender documents must be duly sign and stamp by tenderer
	• The Tenderers are instructed to specify clearly in their tenders as to in which
	respect their quotations deviate from the tender enquiry. If deviations are not
	specified in detail, it will be presumed that the tendered offer is exactly to
	the specifications of the tender enquiry.
	• The firm should not be blacklisted from the Govt. Department in all over
~	India.
5.	The prices shall be inclusive of all freight, forwarding, transit insurance, installation
6.	charges, all applicable taxes like GST & other Tax etc . and F.O.R. JAU. The contractor/agency shall have to stick to the quality standards works supplied
0.	or work done shall be rejected if found of inferior quality and must be replaced by
	quality goods in time at supplier's cost.
7.	On scrutiny of tender documents, any queries raised by the Executive Engineer have
	to be replied satisfactorily with all documentary proofs within 7 days.
8.	Vendor giving wrong information on specification will be black listed for the
	period of 5 years.
9.	The Conditional Rate will not be approved and Tenderer shall be disqualified.
10.	In case of defective items, the same shall have to be replaced by the party
10.	concerned at its own cost, and risk, and within stipulated time.
11.	Successful Tenderer has to submit Security deposit sum of 10% of work order
11.	amount in the form of FDR for 36 months + time limit of work.
10	The security deposit shall be for fitted to Junagadh Agriculture University if the
12.	tenderer fails to execute the order for supply / work in accordance with the terms of
	tender and supply order.
13.	The security deposit shall be refunded on due performance & completion of the
	supply / work as per items and conditions of the tender after 36 months from
	completion date.
14.	The quantity mentioned in the tender is approximate. The Executive Engineer
	reserves the right to change the quantity of supply material.
15.	TERMINATION OF CONTRACT
	Tenderer fail to complete work or any part thereof within the contracted period OR
	incase work done are found not in accordance with prescribed specification and/or
l	

1	approved sample, the Executive Engineer exercise to terminate contract :					
	A) To cancel the contract:					
	In the event of risk competition of work of similar description, the opinion					
	the Executive Engineer shall be final, which was be exercised by him only,					
	when materials / work done of exact specification are not readily procurable.					
	In the event of action taken under cause above the tenderer shall be liable					
	for any loss which the J.A.U. may sustain on that account but the tenderer should not be entitled to a saving on such purchase made against default					
	should not be entitled to a saving on such purchase made against default.					
	The decision of Executive Engineer shall be final as regards the acceptability					
	of materials / work and the Executive Engineer shall not be required to give					
1.5	any reason in writing for rejection of materials / work.					
16.	DELIVERY					
	• All work done will have to be completed in good conditions and as per the					
	specifications at the University office.					
	• In case of delayed work done, the Executive Engineer reserve the right of					
	either rejecting the consignment or for delay as may be deemed proper in the					
	sale description.					
	• In case of any dispute final decision of the Executive Engineer will be					
	binding upon all.					
17.	INSPECTION:					
	Inspection will be done by the Executive Engineer office, J.A.U., Junagadh.					
18.	EXECUTION OF AGREEMENT					
	Tenderer will be required to enter into agreement/Appended herewith for the due					
10	performance of the contract.					
19.	WARRANTY The work done to the university under this tender shall be the best quality shall be					
	strictly in accordance with the specifications and particular contained/mentioned in					
	the tender and the tenderer hereby guarantee / warrantee that the said work done					
	would continue to confirm to the description and quality/afforested for period of 36					
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21.	CERTIFICATES
21.	On the completion of the delivery of materials / work done the tenderer shall be furnished with a certificates to that effect, but the delivery / work done shall not be considered to the completes until the tenderer shall have removed work done and shall have the work done in such position as may be directed to him.
22.	SUBLETTING OF CONTRACT
	This contract shall not be subject without the written permission of Executive Engineer in the event of the contractor subletting his contract without such permission, he shall be considered to have thereby committed a branch of the contract and shall forfeit his security deposit to the J.A.U. and shall have no claim for any compensation or any lose that may occur on account of the collection of the materials or engagement entered into.
23.	TENDERER BOUND TO COMPLETE THE WORK AT THE RATES
	MENTIONED IN CONTRACT
	No claim or claims made by the tenderer for increased rates on the grounds that the market of other rates included in the compact have been during the period of his contract will be recognized that as so to say the contractor is round to complete the work at the fixed rates mentioned the contractor.
24.	Bid Validity Period:
	120 Days
25.	Validity of Rate : up to One Year after order
26.	For any dispute, decision of the Executive Engineer, J.A.U., Junagadh will be final and bound to supplier/s.
27.	All the rights are reserved with the University Authority to accept or reject any or
	all the tenders received without assigning any reasons thereof.
28.	For all legal purpose court jurisdiction will be Junagadh, Gujarat.

We agree to abide by the terms and conditions of supply / work mentioned in this tender document

Signature of Tenderer

(With Stamp, Name & Designation)

Authorized Signature:

Name: Designation: Seal of firm



JUNAGADH AGRICULTURAL UNIVERSITY JUNAGADH

Office of the Executive Engineer

'Mangal Nivas' Nr. Akshar Mandir, Timbavadi Road, Junagadh.

www. jau.in

Ph: 0285-2670207

[PRICE BID]

NAME OF WORK

: PROVIDING AND APPLYING THE ELASTOMERIC JOINT SEALANT FOR EXPANSION JOINT OF AGRICULTURE COLLEGE BUILDING AT J.A.U. PORBANDAR (THIRD ATTEMPT)

TENDER ISSUED TO :-

M/s. / Shri _____

JUNAGADH AGRICULTURAL UNIVERSITY JUNAGADH

NAME OF WORK : PROVIDING AND APPLYING THE ELASTOMERIC JOINT SEALANT FOR EXPANSION JOINT OF AGRICULTURE COLLEGE BUILDING AT J.A.U. PORBANDAR (THIRD ATTEMPT) M/S I Shri.

Name of Agency :

SCHEDULE - "B"

No.	DESCRIPTION OF ITEM	Qty.	Rate	Per	Amount
No. 1	DESCRIPTION OF ITEM Providing and applying the elastomeric joint sealant two component, high Performance polysulfide formulation conforming to BS:4254-1980/IS-12118 having weathering resistance to ultra- violetrays and shall exhibit shore A hardness of 25 and have movement accommodation factor 25% including using of compatible primer of approved standard etc. complete including making edges of expansion joint true line & level with C:M.1:1 and filling gaps with necessary thickness	Qty. 312.00 Rmt.	Rate -	Per Rmt.	-
	of thermocol sheet etc. complete as directed by E.I.CFor 40 to 50 mm thick joint				
	-			Total Rs.	

Executive Engineer J.A.U., JUNAGADH

I/We am/are hereby agree to carryout and complete the work at the above

mention rates.

Signature of Contractor (with Rubber Stamp & Date)

Date :

Executive Engineer J.A.U., JUNAGADH

JUNAGADH AGRICULTURAL UNIVERSITY JUNAGADH

REFERENCE SHEET

Sr.	Description of Item	Vol.	Page No.	Specificati	Paragraph	Remark
No.		No.		on Item no.	No.	
1	Providing and applying the elastomeric joint sealant two component, high Performance polysulfide formulation conforming to BS:4254-1980/IS-12118 having weathering resistance	II		Attached		

Signature of Contractor (with Rubber Stamp & Date) Date :

Executive Engineer J.A.U., JUNAGADH

GENERAL SPECIFICATIONS

NOTE :- The various item of works shall be carried out in general as / per relevant I.S. Specifications and that of the latest edition of P.W.D. handbook Volume – I & II along with following specifications. Where there is construction between the following specification and P.W.D. handbook. The following specification shall a govern in matters of inter predation etc. The decision of the Engineer / Architect shall be final and binding on the contractor.

PRELIMINARIES

- 1. The contractor is not allowed for executing any work, which in the Engineer / Architect option, is likely to cause and annoyance to occupants in the vicinity, at such time the architect may direct.
- 2. Any treasure crove, coins or objects of antiquity, which any is found on the site, shall be handed over to the employer.
- 3. The contractor shall deliver daily to the Engineer-In-Charge of works report as the number of the operative employed in all trades and deliver notes for all materials delivered to the site.
- 4. The contractor is to provide, at all times during the progress of the works and the maintenance period proper means of access with ladders, gangways etc. The necessary attendance to move and adopt as direct for the inspection or measurement of the works by the Architect, consulting engineers structural engineers and employer of their authorized representatives.
- 5. The contractor is to allow for general attendance upon sub-contractors, including the free use of plant and scaffolding (and the provision of any special scaffolding required) and is to allow their operatives the use of latrines, water closets, mess rooms and sheds covered space for plant, storage of materials etc. and a lock up shop for each.
- 6. The contractor is to set out any level the works and will be responsible for the accuracy of the same. He is to provide all instruments and attendance required by the architects, consulting engineers, structural engineers and employer of their authorized representative for checking their work.
- 7. The contractor is to cover up end protect the works from the weather and is to suspend all "SET " operations during weather which in the Executive Engineer opinion will be detrimental to the work.
- The contractor is allow for a general foreman to be constancy on the works through out the period of their execution and for supervision as required under the conditions of contract.
- 9. The contractor shall provide, erect and maintain proper sheds and temporary buildings for the storage and protection of materials etc. and for the execution of works, which may be fabricated or bought on the site.
- 10. The contractor shall provide, erect and maintain proper sheds, mess rooms for the operative with adequate lighting attendance etc.
- 11. The contractor shall provide and erect in approved positions all, necessary sanitary conveniences with the rules and regulations of the University and maintain in a clean and orderly conditions.
- 12. The contractor shall provide, erect and maintain on site office the general foreman, with desk drawers etc. and adequate lighting and attendance etc.
- 13. The contractor shall provide, erect and maintain for the engineer-in-charge with desk, drawers and office etc. and adequate lighting and attendance etc.

- 14. The contractor shall provide, erect and maintain on site office with desk, drawers etc. and adequate lighting and attendance for the Executive Engineer or his authorized agent.
- 15. The Contractor shall allow for paying all rates, taxes and other charges, which may be made, by local or other authorities in conditions with offices, sheds and other temporary building erected for the purpose of the contract.
- 16. BOARD :-

A board of size approximately 8 ' x 6 ' per drawings shall be made and put up at approved place on the site. This board shall be painted in approved colours with the name of :-

- 1. The proposed construction and the employer.
- 2. The Architects.
- 3. The building contractors.
- 4. Any other specialist consultant and
- 5. Consulting engineers, as directed by the architects.

This shall be provided by the contractors at his own expenses.

- 17. Samples of each class of materials and workmanship shall be submitted by the contractor for the approval of the Engineer / Architect and after approval, these samples shall be deposited in the office of the engineer and the contractor will be required to perform all the works of his contract in accordance with these samples.
- 18. If the contractor wants to make any item of work at his workshop or at any other place and not on site written application for permission to do so shall have to be submitted to the engineer stating clearly the item of work. Place of its making etc. If the said applications hi rejected by the engineer the same item of work shall have to be carried out on site at no extra cost.
- 19. On completion, all work must be cleaned down rubbish removed and the work and land cleared of rubbish, surplus materials, and other accumulations, and everything loft in a clean and orderly condition. The contractor shall do this work at his own expenses as per the instructions of the Engineer-In-Charge.
- 20. The contractor shall prepare a sample of any work required by the Executive Engineers and get the Executive Engineer approval before proceeding with the quantity work. The contractor from site at his cost shall remove the rejected sample. The contractor shall not be eligible for any compensation for preparing of removing the sample.
- 21. No extra shall be paid and item on account of the floor lead except where specifically mentioned.
- 22. All quantities mentioned in the schedule of quantities are only approximate and the contractor shall not be eligible for any claim due to any variation in or commission of any item of works,

Signature of Contractor

Executive Engineer J.A.U., Junagadh

SPECIFICATION OF MATERIALS

1. CEMENT

Cement shall be ordinary Portland cement as per ISS269 1958. The contractor shall take every precaution to store cement properly so that the cement is not spoiled by dampness etc. It However, the cement is applied by dampness. The same shall be rejected and shall not be allowed for use and the amount for the same be burned by the contractor and such cement shall be destroyed in presence of the Engineer in charge or his authorized agent, by the contractor. The cement shall one bag cement shall contain 50 Kg of cement for calculation for the proportion of one cement bag shall be taken at 1.28 Cft i.e. 0.0343 Cumt and measuring box size 30cms x38 cms should be used.

2. FINE AGGEREGATE

Fine aggregate shall be which clean, dry hard, strong & well graded be confirming to ISI 383-1962 as approved by the Engineer in charge his authorized agent. The sand shall be free from earth, dust & clay and organic imparities. The maximum size of sand shall be 3mm and it shall be graded properly. The sand shall be measured in volume by suitable steel boxes prepared as per instruction of the Engineer in charge of or his authorized agent

3. COARSE AGGEEGATE

The metal to be used in various items of C.C. or R.C.C. shall be machine rushed of sized 12mm to 20mm of clean hard tough black trap of granite stone as approved by Architect/Engineer in charge or his authorized agent. The metal shall be free from all dust, loose place & other deleterious materials it shall confirm in general I.S.S. 383-1952 and relevant specification of P.D.W. hand book. All the Aggregate shall be stored properly so as prevent being mixed with dust and other impurities. The aggregate shall be measured by volume by uniform steel boxes as directed by the Architect/Engineer in charge or his authorized agent of approved quality and size from river bed will be permissible as coarse aggregate

4. LIME

Lime shall be hydraulic lime as per I.S.S. 712-1956 and it shall have physical requirement as per table II of the I.S.S. 712-1956

5. WATER

The water shall be sweet potable water free from salt other chemical impurities

6. LIME MORTAR

Chani must be paved with brick edge paving. It shall be of the stone 18" wide. The side of which must be formed of bricks shall be 12" wide. The sides of which must be formed of bricks set in mortar. mortar shall have be ground in bullocks mill fitted with beales toll tail. All lime mortar shall be such trenches for 130 revolutions with sufficient quality of water which wetted sand shall be added evenly ground for another 180 revolutions. The mortar shall be churned continuously during the process particularly in the angles of the chain. The mortar shall be used on the day in which it is made but in no case mortar made about 36 hours. Iroviously shall be allowed to use. Such mortar shall have to be removed from site of the contractor at his own cost. The stacked mortar shall be kept damp and shall be under a shed and protected from the sun and rain by covering it with tarpaulin. Beside this the relevant specification No. 15 on page No 15 No 78 and of P.W.D. hand book Vol. I shall be strictly followed. Lime mortar shall be prepared is accordance with I.S.S. 1025-1962.

7. CEMENT MORTAR

Cement mortar shall be in proportion of cement, sand and specified in the item. cement ,sand and water to be used shall be as per general specification of materials and other specification if no special reference is made for the same. Cement and sand as above shall be mixed in prescribe of proportion s by volume taking volume of one cement bag as 1.20 cft i.e. 0.0343 cumt suitable boxed of size as directed shall be prepared for measuring sand cement and sand than shall be mixed dry to have uniform and homogeneous mix water as the gradually added and the mortar is prepared of uniform consistency to fill in joints incld. as required for the job. It shall be prepared in small quantities only which can be immediately used before the initial setting time of cement begins. The mortar shall be prepared on platform made of bricks, In no case mortar shall be prepared on ground

8. LIME NERU

Neeru shall be made from the beast hydraulic lime a shecked with fresh water and shifted. The lime shall be ground to firm power by grinding in a mortar mill, only that much of quality that can be consumed in 16 days shall be prepared at time.

9. BRICKS

1) First class bricks

First class bricks, shall be of regular and uniform size shape and colour and well burnt. They shall be free from cracks of other flame. They shall have frog of 10cm depth on one of their faces. They shall give a metallic raining sound when struck they shall not break when thrown on the ground on their flace face in a stureted condition from height of 60cms. The absorption of water by weight shall not exceed 20% of the dry weight of the brick when tested according to ISS No 1077-1957. The load to crush the brick when dry shall not be less then 35kg/sq.cm. All tests shall be done at the cot of contractor.

First class bricks shall be similar to 1st class bricks except the they may be slightly over burnt and may not have sharp edge. Absorption of water when immersed in water shall not exceed 22% than tests according to ISS No 1077-1957. Crushing strength may be 10% less than prescribed for first class bricks.

10. BRICK BATS

All bricks bats shall be from well burnt bricks free from earth and powder shall be of size as mentioned in the item and specification & approved by the Architect / Engineer in charge or his authorized agent. The under burnt of over burnt bricks bats shall not be allowed. The rejected bricks bats shall be removed from site. The bricks bats shall be measured by volume by suitable boxes as directed by the Architect/Engineer in charge or his authorized agent.

11. TIMBER

The timber to be shall be best bulsar of pucca teak as approved by the Architect / Engineer in charge or his authorized agent. The wood shall confirm as per specification No 1 of P.W.D. handbook. The works shall be carried out as generals as per the specification in P.W.D. handbook. The timber shall generally uniform in substance, free from gaps, cluster or knots , shakes graps , bends and such other defects

13. Plain cement Tiles

The tiles shall be of plain cement mixed with zero No chips

14. MOSAAIC CEMENT FLOORING TILES

The tiles shall be chips size varying from smallest up to 12mm (1/2") of a directed by Architect /Engineer in charge or his authorized agent and tiles shall confirm the ISI requirement.

15. GLAZED TILES

It shall be as per ISI 777-1951 & shall be best Indian make

16. GLAZING

Unless other wise specification the glazing shall be patent flattened sheet glass ,Indian make of the best quality It shall not be from flows, spacks or bubbles. It shall weight 7.5 Kg/sqmt (about23sft) upto 50 cm x60 cm panels large than 60 x60 cm supto 60cms the glass weighting not less than 8.75 kg/sqmt (about 28.00 sqft) shall be used for higher panels upto 90cm x90cm weighting not less than 11.25 kg/smt (about 36.00 sft) shall be used of approved quality by Engineer.

17. SANILTARY FITTILNGS

All paint unless or otherwise specific shall be or be try mixed synthetic paints or best make. The various color architect/ engineer in charge or his authorized agent.

18. GLAZED TILES;

ALL materials as above and other one not covered in above shall in general confirm to relevant specification of on P.W.D. hand book and ISS and as approved by the ARCHITECT/Engineer in charge or his authorized agent. Necessary tests as and when directed by Architect/ Engineer in charge. or his authorized agent shall be carried out as per ISS requirement for the satiability of the materials at the contractors cost in the Government Engineer college laboratory and the same will be binding to the contractor if the material are not found accordance from the site by the contractor at his architect/Engineer or his authorized agent regarding the quality of materials shall be final.

Date :

Place :

Contractors Signature

Volume II

SPECIFICATION OF WORK

Item No. 1

Providing and applying the elastomeric joint sealant two component, high Performance polysulfide formulation conforming to BS:4254-1980/IS-12118 having weathering resistance to ultra-violetrays and shall exhibit shore A hardness of 25 and have movement accommodation factor 25% including using of compatible primer of approved standard etc. complete including making edges of expansion joint true line & level with C:M.1:1 and filling gaps with necessary thickness of thermocol sheet etc. complete as directed by E.I.C.-For 40 to 50 mm thick joint

The expansion joints shall be filled with pre-moulded joint fillers and sealed with mastic compound. For the purpose of measurement, the laps provided shall be neglected.

Expansion joints in foundations and all structures shall be formed in the positions and to the shapes shown in the relevant drawings. When joints are to be filled with joint filling materials as stipulated in the drawings the permanently exposed edges of joints shall be sealed with an approved sealing compound.

1.0 Materials:

1.1 POLYSULPHIDE SEALANT (BS-4254-1983/IS-12118 (part-1&2) -1987)

1.1.1 It shall confirm to relevant Indian Standards.

1.1.2 Polysulphide Sealant shall be a one component, gun applied, synthetic rubber based sealant which cures by absorption of atmospheric moisture to form a permanently flexible seal. It shall be suitable for use on all joints where above average repeated movement is encountered over a wide temperature range. It shall provide outstanding resistance to weathering and chemical attack from solvent, alkalis, dilute acids, oils and grease. Polysulphide Sealant should be non-hazardous in normal use.

1.2 Cement mortar 1:1 (1-Cement: 1-Mortar) for making expansion joints edges in true line & level

1:3 filling gape of expansion jonits with necessary thickness of thermocol sheet

2.0 Workmanship:

- 2.1 The joint surfaces must be clean, dry and free from dirt, frost, grease, rust and protective lacquers and coatings. Remove dirt and loose material by rigorous wire brushing Porous surfaces should be primed with Primer and allowed to dry before application of POLYSULPHIDE SEALANT (Masking tape may be used to keep the joint neat and clean prior to priming). Extrude the sealant firmly into the joint tooling may be carried out with a wetted pointing tool.
- 2.2 Joint size width should not exceed 40mm. To provide optimum joint dimensions a bond breaker or back-up foam should be inserted in the joint, this will also prevent the sealant adhering to the base of the joint. Tools may be cleaned before the sealant cures using white spirit.
- 2.3 Storage

Polysulphide Sealant should be stored in cool, dry conditions, away from frost or direct sunlight. This product should have a shelf life of 12 months when stored in these conditions in original unopened containers.

2.4 Handling

A preper precaution should be taken during handily such material as per note of materials Manufacture.

2.5 Technical Data

Appearance	Smooth viscous mastic		
Tack Free Time (@ 20°C)	48 Hours		
Full Cure (@ 20°C; 50%RH)	4 – 6 Weeks		
Movement Accommodation Factor	20% total in butt joint		
Shrinkage	Less than 2%		
Staining	Non staining to concrete,		
Staining	masonry and stone		
Life Expectancy	In excess of 20 years.		
Application Temperature	+5⁰C to +45⁰C		
Service Temperature *	-40°C to +80°C		

3.0 If diffect found in 36 month after completion of works agency have to rectify/replace the works immediately

4.0 Mode of measurement and payment:

4.1 Payment shall be made on Running meter basis.

4.2 The rate shall include the cost of preparing the surfaces, fixing and finishing with sealing compound, cleaning, costing materials and labours etc.

EXECUTIVE ENGINEER J.A.U., JUNAGADH