


SECTION- V*TECHNICAL SPECIFICATIONS***TECHNICAL SPECIFICATIONS**

1. This document shall be read in conjunction with the other tendering Documents.
2. The work shall be carried according to the description of the Item(s) in the Bill of quantities attached in Part-I. The building work shall generally conform to specifications for works in "The Tripura PWD Specification 1972 Building Work" where Tripura PWD specifications for building work is silent, CPWD specifications or provisions contained in "National Building Code" (Latest Edition) shall be followed.
3. "Specification for Road & Bridge Works (Latest Revision)" published by the Ministry of Shipping, Road Transport & Highways (MoRTH) / Specification for Rural Roads, MoRD shall be followed, and where the said specification is silent or items which are not covered, The Tripura PWD Specification, 1972/ the specification of CPWD/ CPHEEO/CWC/ BIS/ or relevant IRC Standard Specifications as amended till date as determined by the Engineer-In-Charge / Hony. General Secretary, Tripura Cricket Association, in that order should be followed.
- 4.

SPECIAL CONDITION


1. Specification of Cement.
 - a) Cement will be ISI Marked.
 - b) Cement will be supplied in machine stitched polythene bag of 50(fifty) Kg. weight minimum in each bag.
 - c) Cement is to be purchased from the authorized dealer having Tripura Sale Tax Registration.
 - d) Before use of cement in the work, the original cash memo / voucher is to be produced before the Engineer in charge, TCA. The Engineer in charge, TCA should maintain a cement register separately in respect of procuring cement by the contractor and get it signed.
2. Specification of steel reinforcements arranged by the Agency shall conform to relevant IS Codes.
3. Necessary Test Certificate for Cement, steel etc shall have to be produced by the contractor as and when asked by the TCA.

Full Name Signature of Contractor


 (Tapas Dey)
 Hony. General Secretary

4. Before submitting the tender, the tenderers are to satisfy themselves by actual visit to site, regarding availability of labour and materials and site conditions and any claim of the tenderer submitting tenders shall not be entertained afterwards in respect of non-availability of labour, materials and site conditions. Any roads and paths, if required for the work will have to be made by the contractor at his own cost and nothing extra will be paid.
5. During the period, prior to the handing over of the work complete in all respects to the Engineer-In-Charge / Hony. General Secretary, Tripura Cricket Association, damages to the work, if any, is to be made good by the contractor at his own cost and nothing extra will be paid.
6. Traffic on the road should be maintained if required during working period and the contractor will have to take precaution for his workmen. If necessary, he will have to provide diversion at his own cost.
7. The contractor shall be responsible for the true and perfect setting out of the work and correctness of the position, level, and dimensions of all parts of the work. If at any time during the progress of the work shall any error arise in the position, level, or dimensions of any part of the work, etc. the contractor shall be liable to rectify or change as directed by the Engineer-In-Charge / Hony. General Secretary, Tripura Cricket Association at his own cost and risk.
8. The work, which does not conform to specification, must be struck down and rejected materials removed from the site of works as directed by the Engineer-In-Charge / Hony. General Secretary, Tripura Cricket Association.

Full Name Signature of Contractor

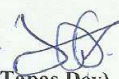

(Tapas Dey)
Hony. General Secretary

VOLUME - II

SECTION- VI

BILL OF QUANTITIES

Full Name Signature of Contractor


(Tapas Dey)
Hony. General Secretary

Date _____

To
The Hony. General secretary,
Tripura Cricket Association.
Agartala, West Tripura

Authorized address for communication:-

Telephone nos:-

Mobile Nos:-

Fax no:-

Email ID:-

Name of Work:- Improvement of approach road by cement concrete pavers including construction of boundary wall & other allied work at TCA office premises.

DNIT No. 01/TCA/AGT/17-18

1. I/WE offer to execute the work(s) described above and remedy any defects therein with conditions of the contract, specifications, drawings, Bill of quantities and Addenda for

a. For **percentage Rate Contract**, @ _____ % (in figures)
 _____ (in words)

Percent below/above with the rates entered in the schedule of rates, as referred to clause 12

I/ WE undertake to commence the work(s) on receiving the notice to proceed with work in accordance with the contract documents.

1. This tender and your written acceptance of it shall constitute a binding contract between us. I understand that you are not bound to accept the lowest or any tender you receive.

I/WE hereby confirm that this tender complies with the tender validity and earnest money required by the tendering documents and specified in NIT.


Authorized Signature _____

Name and Title of Signatory _____

Name of the Tenderer _____

Address _____

Full Name Signature of Contractor


 (Tapas Dey)
 Hony. General Secretary

BILL OF QUANTITIES

PREAMBLE

1. The Bill of quantity shall be read in conjunction with the instruction to Tenderer, conditions of contract, Specifications and drawings.

2.1 For the construction works, the quantities given in the Schedule of quantities are estimated, and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of the work ordered and carried out, as measured and verified by the Engineer and valued.


- a. At the rates and prices tendered in the Schedule of quantities in the case of item rate tenders; and
- b. At percentage rate above or below or at par of the schedule of rates as tendered by the contractor.

2.2 The rates and prices tendered in the priced bill of quantities shall, except in so far as it is otherwise provided under the contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations, etc. set out in the contract.

3. Discrepancies between rate in figures and words if arises, will govern by the Clauses.

4. When percentage rate tenders are invited, the Schedule of quantities will show in the tendering documents the rates used for different items.


Full Name Signature of Contractor


(Tapas Dey)
Hony. General Secretary

BILL OF QUANTITIES FOR PERCENTAGE RATE TENDER(S)

Sl. No.	Description of Item	Quantity	Unit	Rate		Amount
				In Figures	In words	
1.	For description of items & schedule of quantities.					

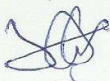
Full Name Signature of Contractor


(Tapas Dey)
Hony. General Secretary

Special Condition

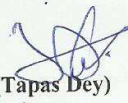
1. The contractor shall have to arrange the machineries at the time of execution of work at his own cost and risk.

Full Name Signature of Contractor


(Tapas Dey)
Hony. General Secretary

PART-I

Full Name Signature of Contractor



(Tapas Dey)
Hony. General Secretary

CLAUSE: 25. Settlement Dispute of by Arbitration

Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and of workmanship or materials used on the work or as to any other (question, claim, right matter or thing whatsoever, in any way arising out of or relating to the contract designs drawing specifications, estimates, instructions orders or, those, conditions or otherwise concerning the works, or the 'execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of there on appointed' by the President, TCA. It will be no objection. To any such appointment that the arbitrator so appointed is a T.C.A member, that he had to deal with the matters to which the contract relates and that in the course of his duties as T.C.A member he had expressed views on all or any of the matters in dispute or difference. The arbitration to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, such President, TCA or as aforesaid at the time of such transfer, vacation of office on inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such persons shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. It is also a term of this contract

CLAUSE 29 (b) :- It will be obligatory for the contractor to produce forest clearance certificate from the DFO having jurisdiction over the area in respect of extraction of any forest produces for utilization in works under this contract before final payment and/ or refund of security deposit. If the contractor fails to do so, a sum of money towards royalty remaining unpaid by the contractor, if any, as may be specified by the concerned Divisional Forest officer, will be set-off from any sum of money including security deposit due and payable to contractor under this contract.

Full Name Signature of Contractor



(Tapas Dey)

Hony. General Secretary


Declaration of the Contractor

I / We hereby declare that I / We have personally gone through to TPWD pamphlet containing general direction and condition attached to PWD form No. 7 (Modified) and also the clauses of the attached detailed notice inviting tender (DNIT), general rules and instruction of the tender for the guidance of tenders, technical specification, general terms and conditions, special condition of contracts, guidance of contractors, schedule of works, declarations etc. of the work.

I /we do agree to abide by the rules and regulations and conditions therein including of up-to-date modification made by the competent authority.

Signature of the Contractor

Full Name Signature of Contractor


(Tapas Dey)
Hony. General Secretary



Tripura Cricket Association
Post-Office Chowmuhani
Agartala: Tripura

Name of Work:- Improvement of approach road by cement concrete pavers including construction of boundary wall & other allied work at TCA office premises.

DNIT No. 01/TCA/AGT/17-18

Description of Items	Quantity	Unit	Rate in Rs	Amount
Item no:-1:- Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	5.944	Cum	113.40	Rs. 674/-
Item no 2:- Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed: All kinds of soil ,By manual means.	242.42	Sqm	2102.60/100 Sqm	Rs. 5097/-
Item no: 3:- Supplying and filling in plinth, under floor, foundations etc. with sand (fine) from local quarry with all lifts including spreading in horizontal layers, watering, grading to required slope, ramming, consolidating and compacting each layer by using plate compactor or by any suitable method complete.	36.954	Cum	424.40	Rs. 15683/-
Item no:4:- Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m. All kinds of soil.	0.396	Cum	48.80	Rs. 19/-
Item no 5:- Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering – All work upto plinth level: 1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 20 mm nominal size)	12.149 cum	Cum	5076.00	Rs. 61668/-

Full Name Signature of Contractor


 (Tapas Dey)

Hony. General Secretary

Description of Items	Quantity	Unit	Rate	Amount
Item no 6:- Labour charge for laying in position cement concrete of specified grade excluding the cost of centring and shuttering – All work upto plinth level: 1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 20 mm nominal size) { 20mm brick aggregate will be supplied in free of cost} .	11.99	Cum	2341.30	Rs. 28072/-
Item no 7:- Interlocking Concrete Block Pavement, Providing and Laying of Interlocking Concrete Block Pavements having thickness 80 mm as per drawings and MoRD Technical Specification Clause 1504 80 mm thick pavers.	242.42	Sqm	721.80	Rs. 174979/-
Item no 8:- Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work up to plinth level: 1:4:8 (1 Cement: 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	0.594	cum	5549.40	Rs. 3296/-
Item no 9:- Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto floor five level. Mild steel and Medium\Tensile steel bars. Steel.	459.81	Kg.	60.90	Rs. 28002/-
Item no:-10: Dismantling of brick soling, stacking serviceable materials and unserviceable materials separately with all lifts and upto a lead of 500 m by manual means as per MoRD Technical Specification Clause 202.	14.70	Cum	234.60	Rs. 3449/-
Item no: 11:- Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and skirting courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement- In plinth and skirting courses, fillets, columns, pillars, posts and struts 1:1½:3 (1 Cement: ½ fine sand : 3 graded stone aggregate 20 mm nominal size)	5.457	Cum	7296.40	Rs. 39816/-
Item no:12:- First class brick work in foundation and plinth including cost of all materials as required complete:- In cement mortar 1:4 (1 cement : 4 fine sand). Drain, 1 x 46.00m x 0.254mx 0.16m = 1.869 Cum	1.869	Cum	4040.60	Rs. 7552/-
Item no: 13: First class brick work in superstructure above plinth level & upto floor-five level including cost of all materials as required complete:- In cement mortar 1:4 (1 cement : 4 fine sand)	0.856	Cum	4355.20	Rs. 3728/-

Full Name Signature of Contractor



(Tapas Dey)

Hony. General Secretary

Description of Items	Quantity	Unit	Rate	Amount
Item no 14: Half brick masonry work with first class bricks in superstructure upto floor five level including cost of all materials as required complete:- In cement mortar 1:4 (1 cement : 4 fine sand).	29.55	Sqm	577.80	Rs. 17074/-
Item no 15: Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. complete as required:- In grating, frames, guard bar, railing, brackets, gates and similar works, all complete.	619.20	Kg.	76.10	Rs. 47121/-
Item no16: 12 mm cement plaster in single layer including cost of materials required and finishing even and smooth and curing complete. In cement mortar 1 : 4 (1 cement : 4 fine sand).	116.384	Sqm	90.20	Rs. 10498/-
Item no 17:- 15 mm cement plaster in single layer including cost of materials required and finishing even and smooth and curing complete. In cement mortar 1 : 4 (1 cement : 4 fine sand)	64.80	Sqm	105.40	Rs. 6830/-
Item no 18:- Labour charge for making 20mm nominal size brick aggregate from the serviceable dismantled bricks / bats by brick crusher machine complete as per direction of the Engineer In-charge.	11.999	Cum	437.26	Rs. 5247/-
Item no 19:- Painting with synthetic enamel paint (two or more coats) of required colour of approved brand and manufacture on new work to give an even shade over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	21.75	Sqm	60.80	Rs. 1322/-
Item no 20:- Finishing walls with premium acrylic smooth exterior paint of required shade of approved brand and manufacture on new work (two or more coats applied @ 1.43 kg/10 sqm) over and including base coat water proofing cement paint applied @ 2.20 kg/10 sqm complete.	64.80	Sqm	77.20	Rs. 5003/-
Item no 21:- Providing, hoisting and fixing upto floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centring, shuttering, finishing smooth with 6mm thick cement plaster 1:3 (1cement : 3 fine sand) on exposed surfaces complete, but excluding cost of reinforcement with cement concrete 1:2:4 (1cement : 2 fine sand : 4 graded stone aggregate 20mm nominal size).	1.08	Cum	9531.50	Rs. 10294/-



(Tapas Dey)


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Item no 22:- Canterng shuttering including strutting, propping etc. and removal of form work for:				
i) Foundations, footings, bases for columns etc. for 5.85.800 5.80 mass concrete with timber plank.	5.80	Sqm	135.90	788.00
ii) Columns, Pillars, Piers, Abutments, Posts and Struts with shuttering ply.	32.30	Sqm	275.80	8908.00
iii) Lintels, beams, plinth beams, girders, bressumers and cantilevers with shuttering ply	12.00	Sqm	205.60	2467.00
			TOTAL RS.	4,87,587.00

(Rupees four lakhs eighty seven thousand five hundred eighty seven) only.

Full Name Signature of Contractor


(Tapas Dey)
Hony. General Secretary