



**ICAR Research Complex for N.E.H. Region
Tripura Centre, P.O. Lembucherra-799210 West Tripura.**



<http://www.tripuraicar.gov.in>

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No. F. RC/TC(C-4)/2011//Pt.-II/

Dated the 27th April 2012.

NOTICE INVITING TENDER

Sealed tender are invited from the bonafide contractor enlisted under the CPWD/PWD/BSNL/NBCC for construction work as mentioned below so as to reach the Joint Director, ICAR, Research Complex for NEH Region, Tripura Centre, Lembucherra on or before 15-05-12 up to 3 PM. The tender forms can be downloaded from the ICAR (Tripura) website <http://www.tripuraicar.gov.in/>. In such cases the cost of tender document Rs.500.00 is to be paid in the form of **DD / or Banker's cheque** drawn in favour of Joint Director, ICAR, Tripura Centre payable at SBI, Agartala alongwith the tender. The tenderers are also to be enclosed with **D-Call** in favour of Joint Director, ICAR, Tripura Centre, for Rs 41,046/-. Tender without earnest money as mentioned below will be rejected.

Schedule of work	Name of the work	Maximum Estimated Cost. in (Rs)	Cost of tender document (Rs.) in DDor Banker's Chq.	Earnest money to be deposited (Rs.) As D-Call	Last Date of Submission
Tender Schedule	Construction of Cattle Shed (Phase - I) Animal Reproduction Farm At ICAR Research Complex for NEH Region, Tripura Centre Lembucherra	4,84,045.00	500/-	41,046/-	15th May 2012 at 3-00 pm.
	Construction of Cattle Shed (Phase -II) Animal Reproduction Farm At ICAR Research Complex for NEH Region, Tripura Centre Lembucherra	4,84,831.00			
	Construction of Cattle Shed (Phase -III) Animal Reproduction Farm At ICAR Research Complex for NEH Region, Tripura Centre Lembucherra	3,98,873.00			
TOTAL		13,67,749.00			

The validity of tenders should be for one year after the approval of tenders. The Joint Director, ICAR Research Complex for NEH Region, Tripura Centre, reserves the right to accept/reject any or the entire tender without assigning any reason what so ever. Selection of lowest bid will be considered on the basis of the total of all aforementioned Schedules. This issues with the approval of the authority.

Asstt. Administrative Officer
ICAR, Tripura Centre, Lembucherra

From:

To,

Joint Director
ICAR Research Complex for NEH Region
Tripura Centre, Lembucherra
West Tripura-799210, Tripura

Dear Sir

1. I/we offer to construct as detailed in the schedule here to or such portion thereof as you may specify in the acceptance of tender at the price given in the specified date. I/we shall be bound by a communication of acceptance despatched within the aforesaid date.
2. I/we have understood the instructions and conditions of contract pertaining to the above mentioned tender and have thoroughly examined the specifications/drawing and/or pattern quoted in the schedule there to and am/are fully aware of the nature of the work required and my/our offer is to supply strictly in accordance with requirements.
3. The following pages have been added to as part of the tender:
 - a.
 - b.
 - c.
 - d.
 - e.
4. A demand draft / Bankers cheque No..... Dt.....of Rs. 500/- ` (Rupees five hundred) only drawn in favour of The Joint Director, ICAR Research Complex for NEH Region, Tripura Centre on the State Bank of India, Agartala, West Tripura is enclosed towards the cost of tender form.
5. A **D-Call** No..... Dt.....of Rs. (Rupees) only drawn in favour of The Joint Director, ICAR Research Complex for NEH Region, Tripura Centre on the State Bank of India, Agartala, West Tripura is enclosed towards **the EMD**.
6. I/we also agree to execute the contract bond/ agreement as per ICAR rules.

Yours faithfully,

Signature of witness
Address:

(SIGNATURE OF TENDERER)

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Terms and Conditions

1. Only bonafide contractor / reputed construction firms duly registered and enlisted under CPWD/PWD/BSNL/NBCC also having PAN number, valid registration with sales tax and central sales tax (CST) (where applicable) are eligible for submitting the tender. Tenderer having quoted for ISI/ISO certified equipment/service shall have preference.
2. EARNEST MONEY: - As mentioned in tender notice Earnest money to be deposited in the form of D-Call favouring JOINT DIRECTOR, ICAR RESEARCH COMPLEX FOR NEH REGION, TRIPURA CENTRE, payable at SBI, AGARTALA drawn on STATE BANK OF INDIA only. Tender received without appropriate Earnest money shall be rejected summarily. The demand draft be enclosed in a separate envelope of size 9" x 4" superscribed as "EARNEST MONEY DEPOSITED of ` C/O Cattle Shed" without which the offer shall not be entertained.
3. The EMD will not carry any interest on it. The EMD refunded in full on receipt of request after the finalization of tender. However in case of tender accepted for the purpose the EMD refunded only after final execution of work. The refund of EMD not claimed within three years from the last date of receipt of tender will stand forfeited. EMD is compulsory to all and no exemption is allowed.
EMD stand forfeited if conditions at clause-I above not fulfilled. Tender for each item submitted separately in sealed cover (wax sealed) of sizes 12"x 10". It should mention Name and Schedule NIT no. of the work of item on top left corner of envelope, without which the offer not be entertained. Tender submitted in person or by Post (Registered/Speed post) only. The forms downloaded from website should be accompanied with cost of tender form Rs. 500/- in form of DD or Bankers Cheque.
4. In case of accepted tender the last date of execution mentioned in the work order has to be adhered to in letter and spirit, failing which penalty @5% (five percent) of the value of item for delay of 15 days or fraction thereof imposed and be deducted from the bill or the earnest money and the purchase order shall automatically stand cancelled.
5. Tender should reach this office on or before 15.05.2012 by 15.00 hour. This office shall not take any responsibility for postal delay/loss in transit. Deposit tender sent by hand delivery in the tender Box in the Office of the Joint Director, ICAR Research Complex for NEH Region, Tripura Centre, Lembucherra, West Tripura. The tender is likely to be opened on 15.05.2012 at 15.00 hours or next working day in case of holidays.
6. The rate quoted per unit should be inclusive of all taxes and incidentals etc. and be F.O.R., ICAR Tripura Centre.
7. Payment will be made by cheque/DD/pay order within one month after satisfactory execution of work order in full and NO Part Payment will be entertained.
8. The appropriate tax / TDS as per the govt. prescribed rate will be deducted from the contractors' bill.
9. **All the rates quoted for articles/ materials /Works must be for F.O.R. ICAR Tripura Centre.**
10. Decision of Joint Director, ICAR Research Complex for NEH Region, Tripura Centre, on any dispute related to this Tender shall be final and binding.
11. **The tender for any item(s) will not be opened if the total number of Tender Bids received by the Institute is less than three.**
12. Tenders received after the stipulated date and time WILL NOT be considered and that not in conformity with the terms and Conditions as above are liable to be rejected.
13. Period for which the offer will remain open/contract period: The tenders shall remain valid up to one year from the date of approval.
14. The Institute shall not be responsible for any postal delay whatsoever.
15. The authority reserves the right to accept or reject any tender without assigning any reason thereof. The authority also reserves the right to accept any tender in case of lowest tenderers fails to complete the work (i.e. it is not mandatory to award the work to the 2nd lowest).

ACCEPTED

(M.Dutta)
Joint Director

(SIGNATURE OF TENDERER)

Please Note:

1. All correspondence relating to the tender should be addressed to :-

Joint Director, ICAR Research Complex for NEH Region, Tripura Centre, Lembucherra, West Tripura-799210, Tripura

SCHEDULE I

Name of the work : Construction of Cattle Shed (Phase – I)
 Division : Animal Reproduction
 Place : ICAR Research Complex for NEH Region, Tripura
 Rate : Tripura Schedule Rates 2011, PWD (Building Works)
 Total estimated cost : **Rs 4, 98,566.00**

Item No	Particulars	Quantity	Rate (Rs)/ Unit	Amount (Rs)
1.	(A) S.H - EARTH WORK Earth work in excavation in foundation trenches or drains (not exceeding 1.5m in width or 10sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - All kind of soil by manual means Post - $1 \times 16 \times 1.20 \times 1.20 \times 1.0 = 23.04$ cum Returning wall - $1 \times 12.00 \times 1.50 \times 1.20 = 21.60$ cum Side drain - $1 \times 30.00 \times 0.60 \times 0.50 = 9.00$ cum Protection wall - $1 \times 2 \times 4.00 \times 0.40 \times 0.50 = 1.60$ cum For tie - $1 \times 2 \times 7 \times 1.24 \times 0.40 \times 0.30 = 2.083$ cum - $1 \times 2 \times 3 \times 1.40 \times 0.40 \times 0.30 = 1.008$ cum	58.331 cum		
2.	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, consolidation and compactor or by any suitable method complete. Post - $1 \times 16 \times 1.20 \times 1.20 \times 0.10 = 2.304$ cum Returning wall - $1 \times 12.00 \times 1.50 \times 0.10 = 1.80$ cum Floor - $1 \times 16.83 \times 7.50 \times 0.10 = 12.622$ cum Drain - $1 \times 30.00 \times 0.60 \times 0.10 = 1.80$ cum For plinth protection - $1 \times 10.00 \times 1.00 \times 0.10 = 1.00$ cum $1 \times 2 \times 18.00 \times 1.00 \times 0.10 = 3.60$ cum Protection wall - $1 \times 2 \times 4.00 \times 0.40 \times 0.10 = 0.32$ cum For tie - $1 \times 2 \times 7 \times 2.19 \times 0.40 \times 0.10 = 1.226$ cum $1 \times 2 \times 3 \times 2.34 \times 0.40 \times 0.10 = 0.561$ cum	25.233 cum		
3.	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidation each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m-All kinds of soil $1 \times \frac{2}{3} \times$ (qnty as item No. 1) 58.331	38.887 cum		
4	Filling in trenches, plinth, under floor, sides of foundations etc. with the approved materials obtained from borrow pits within a lead of 1000 m and all exceeding 200mm in depth, grading to required slope and compacting each layer by using plate compactor or by any suitable method at OMC as per clauses of Chapter - 2 of CPWD specification. $1 \times 4.00 \times 8.00 \times 1.00 = 32.00$ cum	57.245 cum		

	$1 \times 16.83 \times 7.50 \times 0.20 = 25.245 \text{ cum}$			
5	<p>(B) S.H – Cement Concrete Work Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering –all work up to plinth level 1:3:6 (1cement :3 fine sand :6graded well burnt brick aggregate 40 mm nominal size) Post- $1 \times 16 \times 1.20 \times 1.20 \times 0.075 = 1.728 \text{ cum}$ Wall- $1 \times 12.00 \times 1.50 \times 0.075 = 1.35 \text{ cum}$ Floor- $1 \times 16.83 \times 7.50 \times 0.10 = 12.622 \text{ cum}$ Walls – $1 \times 8.00 \times 0.40 \times 0.075 = 0.240 \text{ cum}$ Tie beam - $1 \times 2 \times 7 \times 2.19 \times 0.25 \times 0.075 = 0.574 \text{ cum}$ $1 \times 2 \times 3 \times 2.34 \times 0.25 \times 0.075 = 0.263 \text{ cum}$</p>	16.777 Cum		
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering –all work up to plinth level 1:2:4 (1 cement :2 fine sand :4 graded stone aggregate 20 mm nominal size) Floor – $1 \times 16.83 \times 7.50 \times 0.05$	6.311 cum		
7	<p>S.H Reinforced Cement Concrete Work Providing and laying in position specified grade of Reinforced Cement concrete ex/cl the cost of centering, shuttering, finishing and reinforced – All work up to plinth level 1:2:4 (1 cement :2 fine sand :4graded stone aggregate 20 mm nominal size) Base for post – $1 \times 16 \times 1.20 \times 1.20 \times 0.15 = 3.456 \text{ cum}$ Hones – $1 \times 16 \times \frac{0.30}{3} \times (1.20 \times 1.20) + (0.30 \times 0.30) + \sqrt{(1.20 \times 1.20 \times 0.30 \times 0.30)} = 3.024 \text{ cum}$ Retaining wall - $1 \times 12.00 \times 1.40 \times 0.20 = 3.36 \text{ cum}$ Hones - $1 \times \frac{1}{2} \times 12.00 \times 1.40 \times 0.25 \times 2 = 4.20 \text{ cum}$</p>	14.04 cum		
8	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 centering , shuttering , finishing and reinforcement- In walls (any thickness) , including attached pilasters buttresses, piers , abutments etc 1:2:4 (1 cement: 2 fine sand: 4graded stone aggregate 20 mm nominal size) For returning Wall- $1 \times 12.00 \times \frac{1}{2} (0.40 + 0.25) \times 2.80$	10.92 cum		
9	In plinth and skirting courses, fillets, columns, pillars, posts and struts 1:2:4 (1cement :2 fine sand :4graded stone aggregate 20 mm nominal size) $1 \times 16 \times 2.85 \times 0.25 \times 0.25 = 2.85 \text{ cum}$ $1 \times 4 \times 2.50 \times 0.25 \times 0.25 = 0.625 \text{ cum}$	3.475 cum		
10	RCC work in beams, lintels, bands plain window sills , staircases and spiral staircases ex/cl- precast spiral staircase 1:2:4 (1 cement: 2 fine sand: 4graded stone aggregate 20 mm nominal size) Plinth beam – $1 \times 2(17.08 + 7.75) \times 0.25 \times 0.30 = 3.724 \text{ cum}$ Band – $1 \times 2 \times 17.33 \times 0.25 \times 0.15 = 1.299 \text{ cum}$ Lintel - $1 \times 2(17.08 + 7.75) \times 0.25 \times 0.15 = 1.862 \text{ cum}$	6.884 cum		
11	Reinforced cement concrete work in beams, suspended floors , roofs having slope up to 15 degree landing, balconies slaves, chajjas, lintels bands, plain window sills staircases and spiral stair cases up to floor five level excluding the cost of centering, stuttering, finishing and	1.772 cum		

	<p>reinforcement - RCC work in suspended floors ,roofs having slope up to 15 degree balconies, shelves and chajjas 1:2:4 (1cement :2 fine sand :4graded stone aggregate 20 mm nominal size)</p> <p>Chajjas- $1 \times 1.90 \times 0.60 \times \frac{1}{2} (0.15 + 0.075) = 0.128 \text{ cum}$</p> <p>Slab for flooding - $1 \times 2 \times 10 \times 1.37 \times 0.80 \times 0.075 = 1.644 \text{ cum}$</p>			
12	<p>(D). S.H Brick work</p> <p>First class brick work in foundation and plinth including cost of all materials as required complete in cement mortar 1:6 (1 cement : 6 fine sand)</p> <p>$1 \times 2 \times 3 \times 2.34 \times 0.254 \times 0.30 = 1.069 \text{ cum}$</p> <p>$1 \times 2 \times 7 \times 2.19 \times 0.254 \times 0.30 = 2.336 \text{ cum}$</p> <p>Protection wall - $1 \times 2 \times 4.00 \times 0.381 \times 1.0 = 3.048 \text{ cum}$</p>	6.453 cum		
13	<p>First class brick work in superstructure above plinth level and up to floor five level in/cl cost of all materials as required complete in cement mortar 1:6 (1 cement: 6 fine sand)</p> <p>$1 \times 4 \times 2.34 \times 0.25 \times 1.30 = 3.042 \text{ cum}$</p> <p>$1 \times 2 \times 7 \times 2.19 \times 0.254 \times 1.30 = 10.123 \text{ cum}$</p>	13.165 cum		
TOTAL QUOTED AMOUNT				
<p>Rupees (in words)</p> <p>..... only</p>				

Signature of the Tenderer.....

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SCHEDULE II

Name of the work : Construction of Cattle Shed (Phase – II)
 Division : Animal Reproduction
 Place : ICAR Research Complex for NEH Region, Tripura
 Rate : Tripura Schedule Rates 2011, PWD (Building Works)
 Total estimated cost : Rs 4, 99,376.00

Item No	Particulars	Quantity	Rate (Rs)/ Unit	Amount (Rs)
1	S.H – Brick work First class brick work in superstructure above plinth level and up to floor five level in/cl cost of all materials as required complete in cement mortar 1:6 (1 cement : 6 fine sand) 1x2x2.34x0.25x1.30	1.521 cum		
2	Half brick masonry work with first class bricks in foundation and plinth including cost of all materials as required complete in cement mortar 1:4 (1 cement : 4 fine sand) For Drain 1x2x10.00x0.30 = 6.00 Sqm 1x2x20.00x0.30 = 12.00 sqm	18.00 Sqm		
3	Half brick masonry work with first class bricks in superstructure up to floor five level including cost of all materials as required complete in cement mortar 1:4 (1cement : 4 fine sand) 1x2x15.28x1.10 = 33.61 Sqm 1x2x10x1.60x1.10 = 35.20 Sqm For Food /water 1x2x10x1.37x0.80 =21.92 Sqm	90.73 Sqm		
4	(B) S.H – Flooring work Providing and laying flat brick flooring in cement mortar including cement slurry etc. complete in cement mortar 1:4 (1 cement : 4 fine sand) For plinth protection 1x2x10.00x1.00 = 20.00 Sqm 1x2x18.00x1.00 = 36.00 Sqm	56.00 Sqm		
5	S.H – Finishing work 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 (1cement :4 fine sand) Drain = 1x30.00x1.20 = 36.00 Sqm Inside wall = 1x2(16.83 + 7.50)x 1.55 (incl top) =75.42 Sqm Partition wall inside =1x2x2x15.30x1.18 = 72.21 Sqm = 2x10x1.68x1.18x2 = 79.29 Sqm = 2x10x1.37x2.21 =60.55 Sqm Side top wall -1x2x2.60x 1.10 = 5.72 Sqm Deduction door 1x1.50x2.10 = 3.15 Sqm	326.04 Sqm		
6	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 (1cement :4 fine sand) 1x2x10.00x 1.00 = 20.00 Sqm 1x2x18.00x1.00 = 36.00 Sqm 1x2x17.33x1.60 = 55.45 Sqm 1x2x8.00x1.60 = 25.60 Sqm	137.05 Sqm		
7	6 mm cement plaster in single layer including cost of materials required and finishing even and smooth and curing complete in cement mortar 1:3 (1cement :3 fine	45.49 Sqm		

	<p>sand) Chajja 1x2.20x0.68 = 1.49 Sqm Post - 1x20x4x0.25x1.12 = 22.40 Sqm Wall - 1x1.80x12.00 = 21.60 Sqm</p>			
8	<p>Neat cement punning Qty as item no. 5 = 326.04 Sqm Deduction top side wall = 5.72 Sqm Total = 320.32 Sqm Qty as item no.6 = 137.05 Sqm Wall = 21.60 Sqm</p>	478.97 Sqm		
9	<p>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 Collapsible 1x1.50x2.10 = 3.15 Sqm 1x2x7x1.10x2.19 = 33.72 Sqm 1x2x2x1.10x2.34x2 = 20.59 Sqm</p>	57.46 Sqm		
10	<p>Applying one coat of cement primer of approved brand and manufacturer on wall surface complete 1x20x4x0.25x1.12 = 22.40 Sqm 1x2.34x1.12 = 2.62 Sqm 1x0.50x2.34 = 1.17 sqm</p>	26.19 Sqm		
11	<p>Finishing walls with water proofing cement paint of required shade of approved brand and manufacture on new work (two or more coats applied @ 3.84/10 sqm) complete. Qty as item no. 10</p>	26.19 Sqm		
12	<p>(D) S. H Roofing & Ceiling work Providing corrugated G.S sheet roofing including vertical /curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I limpet washers or with G.I limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.63mm thick with zinc coating not less than 275 gm/ m² 1x2x4.90x18.60 = 182.28 sqm Extra for side ventilator 1x2x18.00x0.60 = 21.60 sqm Gravel 1x¹/2x4.00x1.50x4 = 12.00 sqm</p>	215.88 sqm		
13	<p>Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J or L hooks , bolts and nuts 8 mm dia. G.I limpet and bitumen washers including a coat of approved steel primer and two coats of approved paint complete. 0.63mm thick with zinc coating not less than 275 gm/m² = 1x19.00 = 19.00 meter</p>	19.00 m		
14	<p>Providing flat iron brackets 50x3mm size with necessary bolts, nuts and washers etc. for fixing G.S sheets gutters with purling= 1x4x18.60</p>	74.40 m		
15	<p>(E) S.H –steel work Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm at 100 mm centre to centre and braced with flat Iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia. Steel pulleys & with riveted bolts , nuts, locking arrangement, stoppers, handles, hold fast/ anchor bolt including embedding in cement concrete of required grade for fixing in position , all necessary fittings, including applying a priming coat of approved steel primer etc . Complete as required. 1x1.50x2.10 m</p>	3.15 sqm		
16	<p>Providing and fixing MS bolts including nuts and washers complete as per standard design. Upto 300mm length.</p>	59.724 Kg		

	16 mm dia 1x20x4x0.45 = 36.00m Co. 1.58Kg/ m =56.88Kg Extra 5% for nuts /bolts, washer =2.844 Kg			
17	(F) S.H Steel Reinforcement work Reinforcement for R.C.C work including straightening, Cutting, bending, placing in position and binding all Complete up to floor five level 5.20.1 Mild steel and medium\ Tensile steel bars. Colum base & Returning wall base 14.04cum x 90 Kg/cum =1263.60 Kg Steel for wall- 10.92 cum x 75 Kg /cum =819.00 Kg Steel for column- 3.037 Cumx200 Kg/cum = 607.40 Kg	2690.00 Kg		
TOTAL				
Rupees (in words)				
..... only				

Signature of the Tenderer.....

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SCHEDULE III

Name of the work : Construction of Cattle Shed (Phase – III)
 Division : Animal Reproduction
 Place : ICAR Research Complex for NEH Region, Tripura
 Rate : Tripura Schedule Rates 2011, PWD (Building Works)
 Total estimated cost : Rs 4, 99,376.00

Item No	Particulars	Quantity	Rate (Rs)/ Unit	Amount (Rs)
1	(F) S.H Steel Reinforcement work Reinforcement for R.C.C work including straightening, Cutting, bending, placing in position and binding all Complete upto floor five level 5.20.1 Mild steel and medium\ Tensile steel bars. Steel for Colum: 0.40 cumx200Kg./ cum =80 Kg. Steel for beam and lintel: 6.884 cumx135Kg/ cum =929.34 Kg. Steel for chajija & slab: 1.772cumx 60Kg/ cum= 106.32 Kg	1115.66 Kg		
2	(A) S.H Steel Work Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75Kg. per sqm to window frames etc . Including 62x19 mm beading of gamai wood 1x2x7x1.10x2.19 =33.72 Sqm 1x2x2x1.10x2.34 =10.29 Sqm	44.01 Sqm		
3	Providing steel work in built up tubular trusses including cutting hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc complete as required. Hot finished welded type tubes Consider one (1) nos trusses 59.70 mm (OD) Heavy Tic - 1x 8.00m = 8.00 m Rafter - 1x2x4.85 = 9.70 m Total = 17.70m C.o - 6.19 kg/ m = 109.563 kg 47.90mm (OD) Medium For king post / Queen post 1x1.50 =1.50m 1x2x1.20 =2.40 m 1x2x0.80 = 1.60 m 1x2x0.60 = 1.20 m Total = 6.70 m C.o 3.56 kg/ m = 23.852 kg 42mm (OD) medium For struts 1x2x1.80 = 3.6m 1x2x1.50 = 3.00m Total = 6.60m C.o 3.10ks/ m =20.46kg Purlins - 42mm (OD) medium 1x8x18.55m =148.40m Bottom Runner 1x3x17.30 m =51.90 m For side shed 1x2x2x8x0.90 = 28.80 m 1x2x2x18.00 = 72.00 m Total = 301.10 m C.o 3.10kg/ m =933.41kg 5% of 2164.410 kg(for nuts,bolts,washer & wastage)=108.220 kg, M.S plate - size 200x200x8 mm 1x20x0.20x0.20 = 0.80Sqm For 8 nos x 153.875 =1231.00 kg C.o 62.80kg/ Sqm =50.24 kg	2322.87 kg		

Rupees (in words) for Schedule III
..... only

Signature of the Tenderer.....

Total Quoted Rate for Schedule I to III = Rs/-
Rupees (in words)
..... **only**

Signature of the Tenderer.....

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ICAR-RC-NEH