

INVITATION FOR QUOTATIONS FOR MISCELLANEOUS WORKS
AT BAIF DEVELOPMENT RESEARCH FOUNDATION
CENTRAL RESEARCH STATION URULIKANCHAN PUNE

Date: May 11, 2015

1. The **BAIF DEVELOPMENT RESEARCH FOUNDATION** invites bids for the construction of works detailed in the table. The bidders may submit bids for any or all of the works indicated in the table below.
2. Bidding documents may be purchased from the office of **BAIF DEVELOPMENT RESEARCH FOUNDATION, CENTRAL RESEARCH STATION-URULIKANCHAN, TAL HAVELI DIST-PUNE**, Phone No 020 26926248/265 from **12.05.2015 to 20.05.2015** for a non-refundable fee of Rs. 2000/- as indicated, in the form of cash or Demand Draft on any Scheduled bank payable at **Pune** in favor of BAIF DEVELOPMENT RESEARCH FOUNDATION. Interested bidders may obtain further information at the same address. Bidders can also download the bidding document from BAIF website (www.baif.org.in). The bidders who have downloaded the bidding document shall submit a separate demand draft towards the cost of the document along the offer.
3. Bids must be accompanied by security of the amount specified for the work in the table below, drawn in favour of **BAIF Development Research Foundation**. Bid security will have to be in the form of Demand Draft on any Scheduled bank payable at **Pune** in favor of BAIF DEVELOPMENT RESEARCH FOUNDATION and shall have to be valid for 45 days beyond the validity of the bid.
4. Bids must be delivered to **BAIF Central Research Station (CRS) Urulikanchan Tal –Haveli Dist-Pune, Maharashtra** on or before **14.00hours on 21.05.2015** and will be opened on the same day at **14.30 hours**, in the presence of the bidders who wish to attend. If the office happens to be closed on the date of receipt of the bids as specified, the bids will be received and opened on the next working day at the same time and venue. Late Bids will be rejected
5. The address for communication is as under:
BAIF Central Research Station (CRS) –Urulikanchan, Tal Haveli Dist-Pune.
 - (a) Name & Designation of Officer **Dr. A.B Pande, Senior Vice President.**
 - (b) Official Address **BAIF Central Research Station (CRS) –Urulikanchan, Tal Haveli Dist-Pune.**
 - (c) **Email crspurchase@gmail.com**
 - (d) **Telephone 020-2692 6265, 2692 6248, 26926448, Fax: 020-26926 347**

TABLE

Package No	Name of Work	Bid Security * (Rs.)	Cost of Document (Rs.)	Period of Completion
1	2	3	4	5
1	Sheet Roofing To Staff Quarters In East Coloney At Baif Central Research Station Uralikanchan Pune.	Rs 28000/-	Rs. 2000/-	3 (Three) Months

INVITATION FOR QUOTATIONS FOR MISCELLANEOUS WORKS
AT BAIF DEVELOPMENT RESEARCH FOUNDATION
CENTRAL RESEARCH STATION URULIKANCHAN PUNE

To

Date: May 11, 2015

Dear Sirs,

Sub: INVITATION FOR QUOTATIONS FOR SHEET ROOFING TO STAFF
QUARTERS IN EAST COLONEY AT BAIF CENTRAL RESEARCH
STATION URALIKANCHAN PUNE.

1. You are invited to submit your most competitive quotation for the following works:-

Brief Description of the Works	Approximate value of Works (Rs.)	Period of Completion
Sheet Roofing to Staff quarters in East Colony	28 Lakh including taxes	90 days from the award of contract

2. To assist you in the preparation of your quotation, we are enclosing the following:

- i. Layout Drawings of the works;
- ii. Structural Details;
- iii. Detailed Bill of Quantities, with estimated rates and prices;
- iv. Instructions to Bidders (in two sections).
- v. Draft Contract Agreement format which will be used for finalizing the agreement for this Contract.

You are requested to provide your offer latest by 14 hrs on May 21, 2015

Quotations will be opened in the presence of Bidders or their representatives who choose to attend at **14.30 hrs** on same day in the office of **BAIF Central Research Station (CRS) –Urulikanchan, Tal Haveli Dist-Pune.**

We look forward to receiving your quotations and thank you for your interest in this project.

BAIF Central Research Station (CRS) –Urulikanchan.

BAIF Central Research Station (CRS) –Urulikanchan, Tal Haveli Dist-Pune.

Email crspurchase@gmail.com

Telephone 020-2692 6265, 2692 6248, 26926448, Fax: 020-26926 347

Fax No: 020-225231661

Instructions to Bidders

SECTION - A

1. Scope of Works

BAIF Central Research Station (CRS) –Urulikanchan, Tal Haveli Dist-Pune (Employer) invites quotations for the works as detailed in the table given below

Brief Description of the Works	Approximate value of Works (Rs.in Lakh)	Period of Completion
Sheet Roofing to Staff quarters in East Colony	28.00 Lakh including taxes	90 days from the award of contract

The successful bidder will be expected to complete the works by the intended completion period specified above.

2. Qualification of the bidder:

- a. Financial turnover not less than Rs. 50 Lakh
- b. satisfactorily completed as prime contractor (or as a sub-contractor duly certified by the employer/main contractor) at least one similar work of value not less than Rs. 20 Lakh OR satisfactorily completed as prime contractor (or as a sub-contractor duly certified by the employer/main contractor) at least two similar works of value not less than Rs.12 Lakh .
- c. The following work will be considered as similar- Civil, structural works for RCC Frame Structures and Industrial Sheds.

3. The bidders should have valid VAT & Income tax clearance certificate.

4. Bid Price

- a) The contract shall be for the whole works as described in the Bill of quantities, drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
- c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) The rates should be quoted in Indian Rupees only.

5. Submission of Quotations

- a) The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the quotation.
- b) Each bidder shall submit only one quotation.

- c) The quotation submitted by the bidder shall comprise the following:-
- I. Quotation in the format given in Section **B**.
 - II. Signed Bill of Quantities; and
- d) The bidder shall seal the quotation in an envelope addressed to **BAIF Central Research Station (CRS) –Urulikanchan Pune**. The envelope will also bear the following identification:-
- Quotation for Sheet Roofing to Staff quarters in East Colony .
 - Do not open before 14.30 hrs on May 21, 2015
- e) Quotations must be received in the office of **BAIF Central Research Station (CRS) –Urulikanchan Pune** not later than the time and date given in the letter of invitation. If the specified date is declared a holiday, quotations shall be received up to the appointed time on the next working day.
- f) Any quotation received by **BAIF Central Research Station (CRS) –Urulikanchan Pune** after the deadline for submission of quotations will be rejected and returned unopened to the bidder.

6. Validity of Quotation

Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

7. Opening of Quotations

Quotations will be opened in the presence of bidders or their representatives who choose to attend on the date and time and at the place specified in the letter of invitation.

8. Information relating to evaluation of quotations and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

9. Evaluation of Quotations

The Employer will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) Meet the qualification criteria specified in clause 2 above;
- (b) Are properly signed; and
- (c) Conform to the terms and conditions, specifications and drawings without material deviations.

10. Award of contract

The Employer will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria.

11. Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
12. The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the quotation validity period.
13. Bid security of unsuccessful bidder will be refunded prior to expiration of quotation validity period.

14. Performance Security

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the **BAIF Central Research Station (CRS) –Urulikanchan Pune** the performance security (either a bank guarantee or a bank draft in favour of **BAIF Central Research Station (CRS) –Urulikanchan Pune** for an amount equivalent of 2% of the contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in clause 15.

15. Period of Maintenance:

The “Period of Maintenance” for the work is Twelve months from the date of taking over possession or one full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

16. Purchase of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.

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SECTION - B

- 1. Format for Submission of Quotation.**
- 2. Format of Letter of Acceptance.**

QUOTATION

Description of the Works: Miscellaneous civil works at **BAIF Central Research Station (CRS)Urulikanchan Pune**

To:

**BAIF DEVELOPMENT RESEARCH FOUNDATION
CENTRAL RESEARCH STATION
URULI-KANCHAN, DIST.PUNE – 412 202**

Subject : FOR SHEET ROOFING TO STAFF QUARTERS IN EAST COLONEY
AT BAIF CENTRAL RESEARCH STATION URALIKANCHAN PUNE.

Reference : Request for quotation dated May 11, 2015 from **BAIF Central Research Station (CRS) –Urulikanchan Pune**

Sir,

We offer to execute the Works described in your letter referred to above in accordance with the Conditions of Contract enclosed therewith at percentage above / below the estimated rates, i.e., for a total Contract Price of -

Rs.** _____ [in figures]

Rs. _____ [in words] including taxes.

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

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

We hereby confirm that this quotation is valid for 45 days as required in Clause 6 of the Instructions to Bidders.

Yours faithfully,

Authorized Signature : _____ Date: _____

Name & Title of Signatory : _____

Name of Bidder : _____

Address : _____

** To be filled in by the Bidder, together with his particulars and date of submission at the bottom of this Form.

**LETTER OF ACCEPTANCE
CUM NOTICE TO PROCEED WITH THE WORK**

(LETTERHEAD OF THE EMPLOYER)

Dated: _____

To: _____ [Name and address of the Contractor]

Dear Sirs,

This is to notify you that your Quotation dated _____ for
execution of _____ the
_____ for the
contract price of _____ Rupees

[Amount in words and figures], is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of Rs.
_____ (equivalent to 2% of the contract price) within 15 days of the
receipt of the letter. The Performance Security in the form of Bank guarantee or a Bank
draft in favor of(Employer)
shall be valid till the expiry of the period of maintenance i.e. upto
_____. Failure to furnish the Performance Security will entail
cancellation of the award of contract.

You are also requested to sign the agreement form and proceed with the work not
later than _____ under the instructions of the Engineer,
_____ and ensure its completion within the contract period.

With the issuance of this acceptance letter and your furnishing the Performance
Security, contract for the above said work stands concluded.

faithfully,

Yours

**Authorized Signature
Name and title of Signatory**

Draft Agreement form for Construction

ARTICLES OF AGREEMENT

This deed of agreement is made in the form of agreement on _____ day _____ month _____ 2015, between the **BAIF Central Research Station (CRS) –Urulikanchan** Pune or his authorized representative (hereinafter referred to as the first party) and _____ (Name of the Contractor), S/O _____ resident of _____ (hereinafter referred to as the second party), to execute the work of construction of Miscellaneous Civil Works for Sheet Roofing to Staff quarters in East Colony at BAIF Development Research foundation Urulikanchan (hereinafter referred to as works) on the following terms and conditions.

1. Cost of the Contract

The total cost of the works (hereinafter referred to as the “total cost”) is Rs. _____ as reflected in Annexure - 1.

2. Payments under its contract:

Payments to the second party for the construction work will be released by the first party in the following manner:-

Payments at each stage will be made by the first party:

(a) On the second party submitting Running accounts bills (RA bills) for completed works & minimum value of RA bill should be Rs. 5.00 Lakh;

(b) On certification of the invoice by the engineer in charge nominated by the first party with respect to quality of works in the format in Annexure - 2; and

3. Security Deposit:

(a) As 3% of the bill value shall be deducted from running bill of the said work.

(b) The amount so retained will be refunded after successful completion of the defect liability period which is 12 months from the completion of the work or one full monsoon season whichever occurs later

4. Notice by Contractor to Engineer

The second party, on the works reaching each stage of construction, issue a notice to the first party or the Engineer nominated by the first party (who is responsible for supervising the contractor, administering the contract, certifying the payments due to the contractor, issuing and valuing variations to the contract, awarding extensions of time etc.), to visit the site for certification of stage completion. Within 15 days of the receipt of such notice, the first party or the engineer

nominated by it, will ensure issue of stage completion certificate after due verification.

5. Completion time

The works should be completed in 90 days from the date of this Agreement. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both the parties.

6. If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period:
 - a) The first party does not give access to the site or a part thereof by the agreed period.
 - b) The first party orders a delay or does not issue completed drawings, specifications or instructions for execution of the work on time.
 - c) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.
 - d) Payments due to the second party are delayed without reason.
 - e) Certification for stage completion of the work is delayed unreasonably.
7. Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ Rs. * _____ per day which will be deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 2 % of the contract amount.

(Note: The amount of liquidated damages per day should be determined at 0.05 % of the contract value of the works and indicated here).

8. Duties and responsibilities of the first party

- (a) The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party, for checking quality of material and construction to ensure that it is as per the norms.
- (b) The first party shall supply 3 sets of drawings, specifications and guidelines to the second party for the proposed works.

- (c) Possession of the site will be handed over to the second party within 10 days of signing of the agreement.
- (d) The Engineer or such other person as may be authorized by the first party shall hold meeting once in a month where the second party or his representative at site will submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.
- (e) The Engineer shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the Engineer's notice, the first party as well as the engineer nominated by it may instruct stoppage or suspension of the construction. It shall thereupon be open to the first party or the engineer to have the deviations rectified at the cost of the second party.

9. Duties and responsibilities of the second party

The second party shall:

- a) take up the works and arrange for its completion within the time period stipulated in clause 5;
- b) employ suitable skilled persons to carry out the works ;
- c) regularly supervise and monitor the progress of work ;
- d) abide by the technical suggestions / direction of supervisory personnel including engineers etc. regarding building construction ;
- e) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification ;
- f) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation ;
- g) keep the first party informed about the progress of work ;
- h) be responsible for all security and watch and ward arrangements at site till handing over of the building to the first party ; and
- i) Maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims.
- j) Pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law).

10. Variations / Extra Items

The works shall be carried out by the second party in accordance with the approved drawings and specifications. However, if, on account of site conditions or any other factors, variations are considered necessary, the following procedure shall be followed:-

- a) The second party shall provide the Engineer with a quotation for carrying out the Variation when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request before the Variation is ordered.
- b) If the quotation given by the second party is unreasonable, the Engineer may order the Variation and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the Variation on the Contractor's costs.
- c) The second party shall not be entitled to additional payment for costs which could have been avoided by giving early warning.

11. Securities

The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee.

12. Termination

- 12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 12.2 Fundamental breaches of Contract include, but shall not be limited to the following:
 - (a) The contractor stops work for 28 days and the stoppage has not been authorized by the Engineer;
 - (b) The Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (c) The Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
 - (d) The Contractor does not maintain a security which is required;
- 12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

- 12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

13. Payment upon Termination

- 13.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.
- 13.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

14. Dispute settlement

If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Superintending Engineer, PWD to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

Format of certificate

Certified that the works up to ----- level in respect of construction of ----- at ----- have been executed in accordance with the approved drawing and technical specifications.

Signature
Name & Designation
(Official address)

Place:
Date:

Office seal

Bill of Quantities

B1 FORM

PROJECT : SHEET ROOFING TO STAFF QUARTERS IN EAST COLONEY

OWNER :BAIF DEVELOPMENT REASEARCH FOUNDATION , CRS URALIKANCHAN PUNE.

SUMMARY STATEMENT

SR.NO.	Item		Estimated Amount
1	Sheet Roofing to A, B & C type Quarters	RS	2334187.50
2	Water Tanks & Allied water supply work (7 tanks)	RS	466882.00
*	- TOTAL AMOUNT 'A'-	RS	2801069.50
	We agree to execute the work in accordance with the approved drawings and technical specifications at--- -----% above/ below the estimated rates.		
	Add/Deduct due to % above /below	RS	
	Total 'B'after effect due to % above/below	RS	
	ADD VAT-----%	RS	
	ADD ST-----%	RS	
	FINAL TOTAL AFTER ADDING TAXES	RS	
We agree to execute the work in accordance with the approved drawings and technical specifications for a total contract price of Rs.....(Amount in figures) (Rs.....amount in words.) including Taxes			

	Signature of Contractor with Seal	
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**PROJECT : PROVIDING SHEET ROOFING TO STAFF QUARTERS IN EAST
COLONEY AT CRS
OWNER : BAIF DEVELOPMENT RESEARCH FOUNDATION
SCHEDULE OF QUANTITIES AND RATES**

NO.	DESCRIPTION OF WORK	Total Quantity	RATE	UNIT	AMOUNT
1	Providing & fixing precoted/color coated sheet roofing on RCC/Siporex slab as waterproof cover with following specifications -	1244.90	1875.00	M2	2334187.50
	Precoated/color coted sheets 0.5mm thick of TATA or Equivalent fixed on pulines				
	Purlines (to be fixed on rafters) of MS square pipes 50mm x 50mm x2mm thk & purline spacing not to exceed 1.4m				
	Rafters (for supporting purlines) of MS square pipes 50mm x 50mm x2mm thk & Rafter spacing not to exceed 3.6 m				
	Concrete pedestals in PCC 1:2:4 of sixe 0.23 X 0.23 X 0.45m or as directed by engineer incharge (to be located on existing walls & not on siporex slab) for fixing rafters-				
	Brick walls (230mm thik or as required) for closing all gaps below sheets along eves & sides & 0.45 ht for parapet wall above sheets along gable & ridge ends with 20mm thick sand face plaster to exposed surfaces including curing etc complete				
	Including demolision of existing parapet wall if required & rectifying it if required				
	Including fixing of FRP/polycarbonate sheet 1.5m x 1m for duct of each quarter for light ventilation				
	including Shifting of debries of demolished material in the radius of 1km from the site as directed				
	Mode of measurement--				
	No wastage in sheets or any other material will be considered.				
	Measurement of actual area covered by roof				
	Minimum sheet projection beyond wall 0.3m				
	Minimum roof slope 9 degrees				
	no extra for scaffolding				
	CONTRACTOR SHOULD FIRST PREPARE LAYOUT OF ROOFING ALIGNMENT FOR EACH QUARTER & GET IT APPROVED FROM THE ENGINEER INCHARGE				
		TOTAL Rs			2334187.50

**PROJECT: WATER TANK FOR STAFF QUARTERS IN EAST COLONY AT CRS
OWNER : BAIF DEVELOPMENT RESEARCH FOUNDATION
SCHEDULE OF QUANTITIES AND RATES-WATER TANK**

NO.	DESCRIPTION OF WORK	Total Quantity	RATE	UNIT	AMOUNT Rs.
1	Removing existing ferrocement/RCC water tank with proper care so as to have minimum breakage from roof & taking it down to ground & stacking it as directed within distance of 100m from the location including disconnecting watersupply connections & closing the outlets of watersupply line with plugs of appropriate size.	18.00	750.00	No	13500.00
2	EXCAVATION FOR FOUNDATION				
	in all types of soil, including refilling around foundations & in plinth with selected excavated earth in 200 mm thick layers, watering, consolidating etc. & disposing off surplus earth by spreading at site as directed, complete. For water tank foundation				
	All types of soil , murum, rock & gravel.	27.00	250.00	M3	6750.00
2	Providing and laying PLAIN CEMENT CONCRETE M-10 (1:3:6 nominal mix by volume) in foundation and elsewhere, using trap metal max. 40 mm size, including formwork, if any, consolidating, finishing and curing complete. For water tank foundation	1.05	4200.00	M3	4410.00
3	Providing and laying PLAIN CEMENT CONCRETE M-20 matching mixed, vibrated and finished in line and level including formwork, centering, curing as directed complete (excluding steel reinforcement).				
	IN FLOOR SLABS supported and / or cantilevered at all levels using 20 mm max. size downgraded trap metal. for water tank base	1.89	7800.00	M3	14742.00
4	Providing, cutting, bending, hooking, binding, placing in position STEEL REINFORCEMENT for all R.C.C. work at all levels, with chairs, supports etc. to provide proper cover complete. (binding wire not to be weighed for payment).				
a)	Tor Steel Bars as per Structural details for slab	1.090	68000.00	M.T.	74120.00
5	Providing and constructing BURNT BRICK MASONRY WALLS (230 mm thick wall) in plinth & superstructure at all levels, in C.M. (1:5) in II Class bricks, including raking of joints on exposed surfaces, curing, scaffolding complete. Brick wall for Water	20.58	6500.00	M3	133770.00

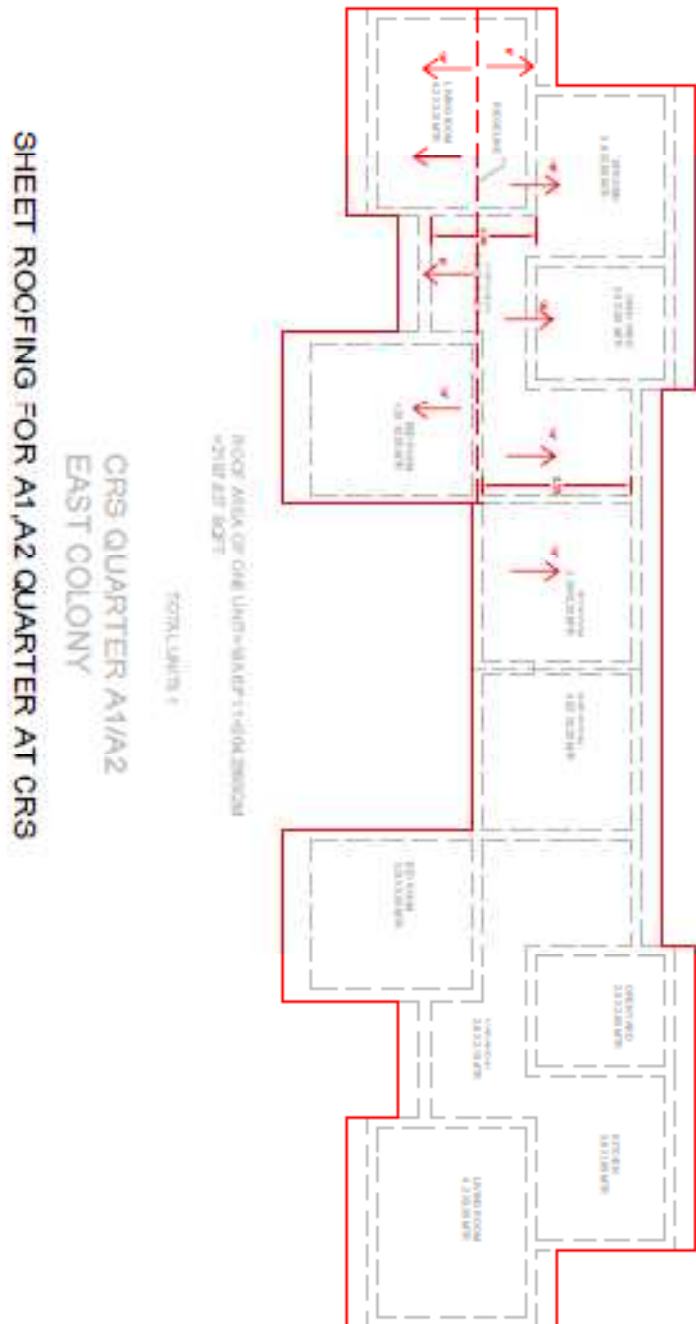
BAIF Central Research Station (CRS) –Urulikanchan, Tal Haveli Dist-Pune.

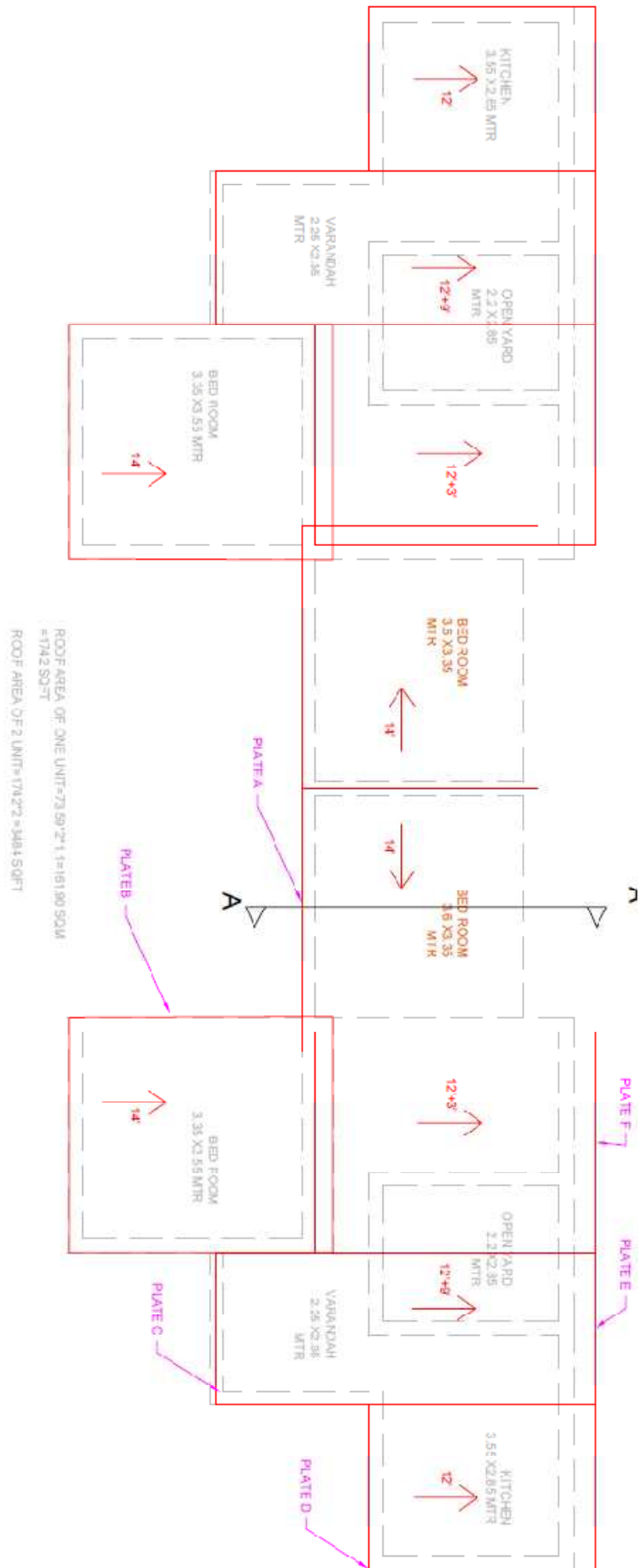
NO.	DESCRIPTION OF WORK	Total Quantity	RATE	UNIT	AMOUNT Rs.
	tank supporting pillars				
6	Providing & applying SAND FACED CEMENT PLASTER EXTERNALLY av. 20 mm thick to brick or concrete surfaces in (1:4) C.M. finished with sponges, including hacking of concrete surfaces, scaffolding, curing complete. for brick walls supporting tank	130.20	450.00	M2	58590.00
7	Providing, laying, jointing, fixing & testing 'UPVC. WATER SUPPLY PIPES with all specials including fixing them in walls or under floors and making them good and rectifying of leakages etc. complete.				
a)	U.P.V.C. 40 mm	210.00	350.00	R.M.	73500.00
2	Providing & fixing approved type of heavy quality Patti VALVE complete.				
b)	40 mm dia. Pattil Valve	7.00	500.00	No.	3500.00
8	Providing & installing " SYNTEX " Water storage Tank of 1000 Ltrs. Capacity over bk. Platform with necessary inlet-outlets, wash-out, ball cocks and overflow pipes, connections, and including man-holes cover, complete.(7 tanks of 1000 litre each)	7000.00	12.00	Litrs	84000.00
		Total Rs.			466882.00

**PROJECT: PROVIDING SHEET ROOFING TO B1 TYPE QUARTERS IN EAST
COLONEY AT CRS
OWNER : BAIF DEVELOPMENT RESEARCH FOUNDATION
ROOF AREA DETAILS**

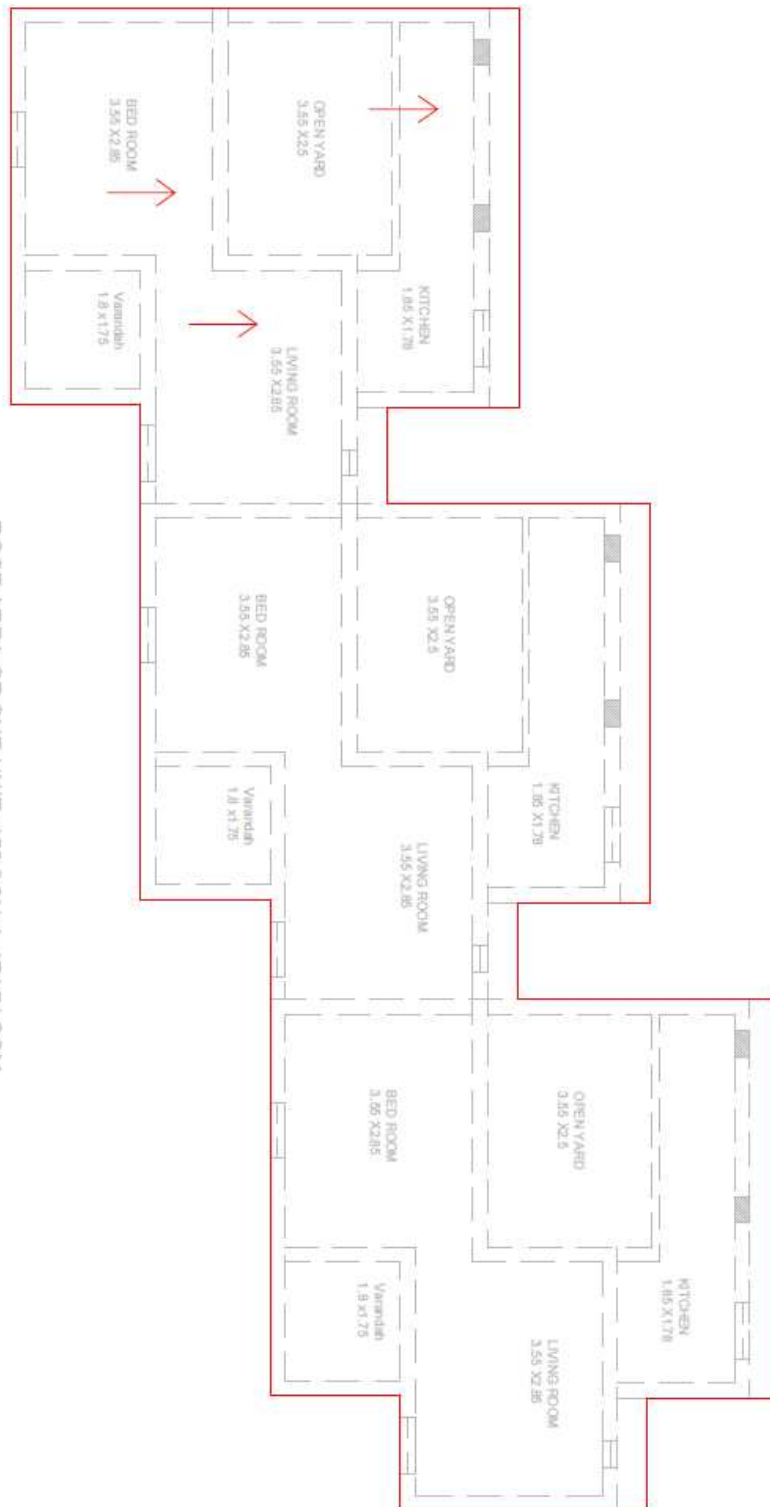
SR. NO.	QUARTER TYPE	Roof Area of One Unit	Total Units	Total Roof Area in Sqft
1	A TYPE QUARTERS (A1+A2)	204.259	1	204.26
2	B TYPE QUARTERS (B1, B2) & (B3,B4)	170.896	2	341.79
3	C TYPE QUARTERS (C1,C2,C3),(C3,C4,C5) , (C6,C7,C8), (C9,C10,C11)	174.713	4	698.85
				1244.90

Layout Plan





SHEET ROOFING FOR B1/B2 TYPE QUARTER AT CRS

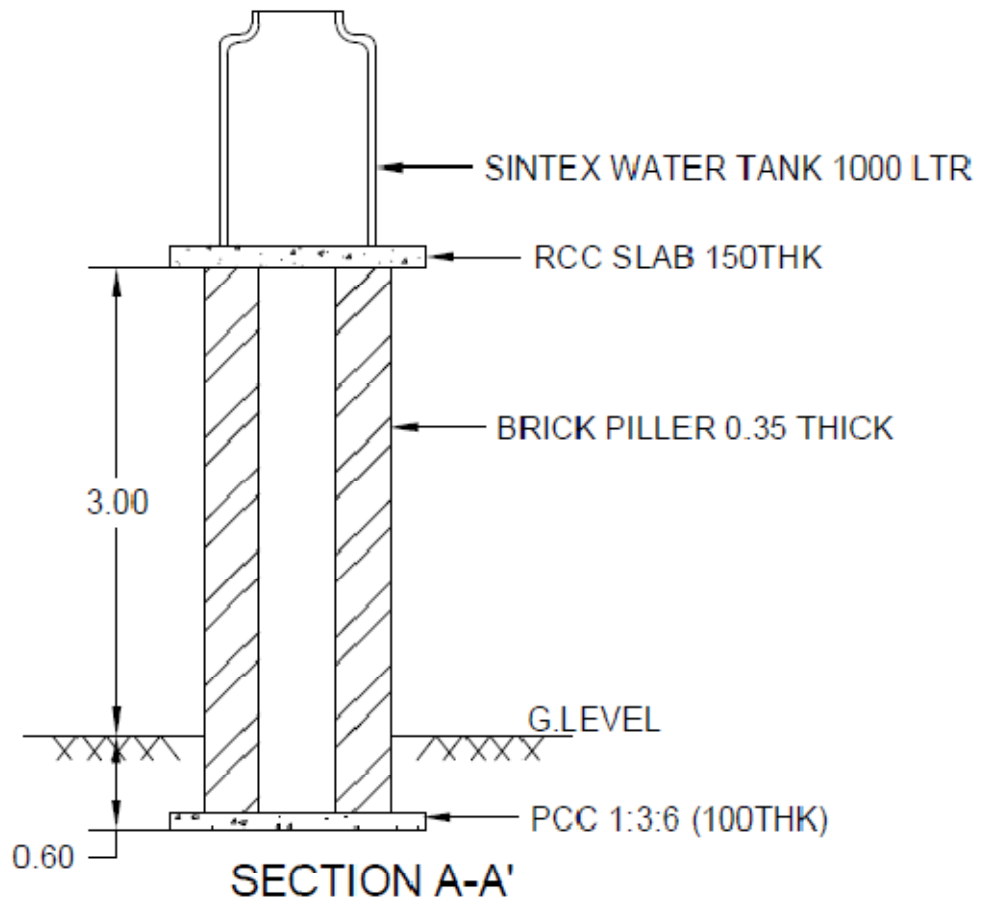
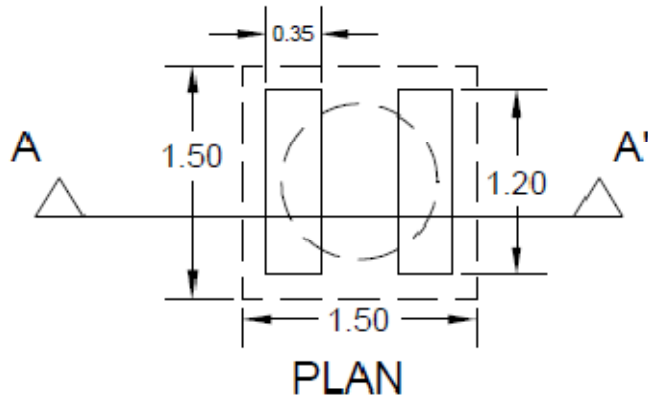


ROOF AREA OF ONE UNIT=158.83*1.1=174.71 SQM
=1879.91 SQFT

ROOF AREA OF 4 UNIT=1879.91*4 =7519.65 SQFT

C TYPE QUARTERS C1,C2,C3

SHEET ROOFING FOR C1,C2,C3 QUARTER AT CRS



WATER TANK DETAILS