

W-5

**PROCUREMENT OF CIVIL WORKS
UNDER
NATIONAL SHOPPING
PROCEDURES**

(For Works valued up to US\$ 1,00,000 each)

**INVITATION FOR QUOTATIONS FOR CONSTRUCTION OF
CIVIL WORKS UNDER SHOPPING PROCEDURES**

1DP/NAHEP/RVSKVV/1553

08/12/2023

To,

Perspective Constructor

Dear Sir,

Sub: INVITATION FOR QUOTATIONS FOR CONSTRUCTION OF
Renovation/Minor Civil Work for Natural Farming Unit/ dairy unit
RVSKVV, Gwalior

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
1. Renovation/Minor Civil Work for Natural Farming Unit/ dairy unit	8.87 lakh	30 December. 2023

The government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$___ towards the cost of the ___ Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. The IDP-NAHEP Project in Madhya Pradesh state is being implemented by _____, which is an autonomous society registered under the Societies Registration Act.
4. To assist you in the preparation of your quotation, we are enclosing the following:
- Layout Drawings of the works;
 - Structural Details;
 - Detailed Bill of Quantities, with estimated rates and prices;
 - Technical Specifications;
 - Instructions to Bidders (in two sections).
 - Draft Contract Agreement format which will be used for finalizing the agreement for this Contract.
5. You are requested to provide your offer latest by **15.00 hrs. on 18.12.2023 only through speed post/courier.**
6. Quotations will be opened in the presence of Bidders or their representatives who choose to attend at **04:00 PM** 18.12.2023 in the office of PI, IDP-NAHEP, RVSKVV, Gwalior, MP.
7. We look forward to receiving your quotations and thank you for your interest in this project.

Dr. Y.P. Singh
PI, IDP-NAHEP

Address: Office of the DES, RVSKVV,
Raja Pancham Singh marg, Gwalior, MP
Tel. No:0751-2970513

Instructions to Bidders

SECTION - A

1. Scope of Works

The PI, IDP-NAHEP invites quotations for the construction of works as detailed in the table given below

Brief Description of the Works	Approximate value of Works (Rs.)	Period of Completion
1. Renovation/Minor Civil Work for Natural Farming Unit/ dairy unit	8.87 lakh	30 December, 2023

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

2. **Qualification of the bidder:** The bidder shall provide qualification information which shall include: -
- The total monetary value of construction works performed for each year of the last 3 years;
 - Income tax clearance certificate from the concerned IT circle;
 - Report on his financial standing; and
 - Details of any litigation, current or during the last 3 years in which the bidder is involved, the party's concern, and the disputed amount in each case.
3. To qualify for the award of the contract the bidder: -
- should have satisfactorily completed as a prime contractor at least one similar work of value not less than Rs. 500,000 in the last three years;
 - should possess a valid electrical license for executing building electrification works (in the event of the works being subcontracted, the sub-contractor should have the necessary license);
 - should possess the required valid license for executing the water supply/sanitary works (in the event of the works being sub-contracted, the sub-contractor should have the necessary license);

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

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.

Each bidder shall submit only one quotation.

The quotation submitted by the bidder shall comprise the following: -

- (a) Quotation in the format given in Section B.
- (b) Signed Bill of Quantities; and
- (c) Qualification information form given in Section B duly completed.

The bidder shall seal the quotation in an envelope addressed to the PI, IDP-NAHEP, RVSKVV, Gwalior. The envelope will also bear the following identification: -

- Quotation for Renovation/ Minor Civil Work for Natural Farming unit/ Dairy Unit
- Do not open before **19.12.2023 before 11:00 AM**

Quotations must be received in the office of the PI, IDP-NAHEP 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.

Any quotation received by the **PI, IDP-NAHEP, RVSKVV, and Gwalior** after the deadline for submission of quotations will be rejected and returned unopened to the bidder.

6. Validity of Quotation

A 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 the evaluation of quotations and recommendations for the award of the 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 3 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.

Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and cancel the bidding process and reject all quotations at any time before the award of the contract.

The bidder whose bid is accepted will be notified of the award of a contract by the Employer before the expiration of the quotation validity period.

11. Performance Security

Within 7 days of receiving a letter of acceptance, the successful bidder shall deliver it to the **PI. IDP-NAHEP** the performance security (either a bank guarantee or a bank draft in favor of the Employer) for an amount equivalent to **3 %** of the contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in clause 12.

12. Period of Maintenance:

The “Period of Maintenance” for the work is six 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 construction defects free of cost to the Employer.

13. 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 Qualification Information.**
- 2. Format for Submission of Quotation.**
- 3. Format of Letter of Acceptance.**

QUALIFICATION INFORMATION

1 For Individual Bidders

Principal place of business: _____

Power of attorney of the signatory of Quotation.
[Attach copy]

Total value of Civil Engineering	20
construction work performed in the last	20
three years (in Rs. Lakhs)	20

Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

<u>Project Name</u>	<u>Name of Employer</u>	<u>Description of work</u>	<u>Contract No.</u>	<u>Value of contract (Rs. Lakhs)</u>	<u>Date of issue of work order</u>	<u>The stipulated period of completion- on</u>	<u>The actual date of completion</u>	<u>Remarks explaining reasons for delay and work completed</u>
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Existing commitments and ongoing works:

<u>Description of Work</u>	<u>Place & State</u>	<u>Contract No. & Date</u>	<u>Value of Contract (Rs. Lakh)</u>	<u>The stipulated period of completion</u>	<u>Value of works* remaining to be completed (Rs. Lakhs)</u>	<u>Anticipated date of completion</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)

* Enclose a certificate from the Engineer concerned.

Proposed subcontracts and firms involved.

Sections of the works	Value of Subcontract	Sub-contractor (name & address)	Experience in similar work
*	*	*	*
*	*	*	*
*	*	*	*

Evidence of access to financial resources to meet the requirements of working capital: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

Name, address, telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

Information on litigation history in which the Bidder is involved.

Other parties (ies)	Employer	Cause of dispute	Amount involved	Remarks showing the present status

QUOTATION

*

Description of the Works:

To:

Subject: Construction of

Reference: Letter No.....dated.....from.....

Sir,

We offer to execute the Works described in your letter referred to above following the Conditions of the Contract enclosed therewith ata percentage above/below the estimated

rates, i.e., for a total Contract Price of -

Rs.** _____ [in figures]

Rs. _____ [in words].

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 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 Employer before the issue of the Letter of Invitation.

** 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 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 3% of the contract price) within 15 days of the receipt of the letter. The Performance Security in the form of a Bank guarantee or a Bank draft in favor of (Employer) shall be valid till the expiry of the period of maintenance i.e. up to. Failure to furnish the Performance Security will entail cancellation of the award of the 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, the contract for the above said work stands concluded.

Yours faithfully,

**Authorized Signature
Name and title of Signatory**

**Draft Agreement form for
Construction through National Shopping**

ARTICLES OF AGREEMENT

This deed of agreement is made in the form of agreement on _____ the
day _____ month _____ 199 ____, between the
_____ (Employer) or his authorized representative (hereinafter
referred to as the first party) and _____ (Name of the Contractor), S/O
_____ A resident of _____ (hereinafter referred to as the second party), to
execute the work of construction of _____ (hereinafter referred to
as works) on the following terms and conditions.

2. Cost of the Contract

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

Payments under its contract:

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

On signing of the agreement	:	25% of the total cost
On reaching the plinth level (first stage)	:	25% of the total cost
On reaching lintel level (second stage)	:	25% of the total cost
On reaching roof level (third stage)	:	15% of the total cost
Plastering and completion of the whole work (fourth stage)	:	10% of the total cost

*(The above has been drafted for the construction of school buildings; modify this suitably for other
works)*

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

- (a) on the second party submitting an invoice for an equivalent amount;
- (b) on certification of the invoice (except for the first installment) by the engineer
nominated by the first party concerning the quality of works in the format in
Annexure - 2; and
- (c) Upon proper and justified utilization of at least 50 % of the previous installment
and 100 % of any prior installment.

4. Notice by Contractor to Engineer

The second party, on the works reaching each stage of construction, issues 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 the issue of the stage completion certificate after due verification.

5. Completion time

The works should be completed in _____ (months/weeks/days) from the date of this Agreement. In exceptional circumstances, the period stated in this clause may be extended in writing by mutual consent of both parties.

6. If any of the compensation events mentioned below would prevent the work from 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 the execution of the work on time.
- c) Ground conditions are substantially more adverse than could reasonably have been assumed before the issuing of the letter of acceptance and from information provided to the 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 exceed 2 % of the contract amount.

(Note: The number 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

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 visits of the authorized personnel of the first party, for checking the quality of material and construction to ensure that it is as per the norms.

The first party shall supply 3 sets of drawings, specifications, and guidelines to the second party for the proposed works.

Possession of the site will be handed over to the second party within 10 days of the signing of the agreement.

The Engineer or such other person as may be authorized by the first party shall hold a meeting once a month where the second party or his representative at the 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.

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 stipulated in clause 5;
- b) employ suitably 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 by 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 the 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.
- f) Pay all duties, taxes, and other levies payable by construction agencies as per law under the contract (The 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 by 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 the Engineer's 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 that could have been avoided by giving an 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

The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.

Fundamental breaches of the 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 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 determined by the Engineer;
- (d) the Contractor does not maintain the security that is required;

Notwithstanding the above, the Employer may terminate the Contract for convenience.

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

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 fewer advance payments received up to the date of the issue of the certificate, fewer other recoveries due in terms of the contract, fewer taxes due to be deducted at source as per applicable law.

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 fewer 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 an 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 by the Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both parties.

BILL OF QUANTITIES

Sl.No.	Description of Work	Qty.	Unit	Estimated Cost		Amount
				In figure (Rs.)	In Words	

Gross Total Cost: Rs.....

We agree to execute the works by the approved drawings and technical specifications at percentage above/below the estimated rates, i.e., for a total contract price of Rs. (Amount in figures) (Rs. amount in words).

Signature of Contractor

Format of certificate

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

Signature
Name & Designation
(Official address)

Place:
Date:

Office seal

OFFICE OF THE EXECUTIVE ENGINEER, R.V.S.K.V.V., GWALIOR

Detail Estimate



NAME OF WORK :- *Details Estimate for Const. of Natural Farming unit at
.....under RVSKVV, Gwalior*

Amount :- (A) 312121.00

(B) 80000.00

Grand Total:-392121.00

RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA
VIDHYALA YAGWALIOR (M.P.)

**Name of work: -Details estimate for Const. of Natural Farming unit
at..... under RVSKVV, Gwalior**

Part (A) (Civil Work)

S.NO.	PARTICULARS	MEASUREMENTS				QUANTITY	RATE/@	UNIT	AMOUNT	REMARKS
		No.	L.	B.	D.					
1.	As per S.O.R. Page No. (12) Item No. (2.1)									
	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.	1x1	9.00	15.00	--	135.00	803.00	Sqm	1084.00	
2.	As per S.O.R. Page No. (13) Item No. (2.6)									
	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m. disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil									
	For iron pillar	8x1	0.60	0.60	0.75	2.16				
	For plat form outer wall long wall	2x1	9.00	0.45	0.45	3.64				
		4x1	1.00	0.45	0.45	0.81				
						6.61	129.00	Cum	853.00	
3.	As per S.O.R. Page No. (38) Item No. (4.1.1.3)									
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level : M-15 - Grade concrete .									
	For grouting of vertical post	8x1	0.60	0.60	0.75	2.16				
	Base conc. For plat form	2x1	9.00	0.45	0.15	1.21				
	Wall	4x1	1.00	0.45	0.15	0.27				
		2x1	9.00	0.45	0.15	1.21				
	Outer wall	2x1	5.10	0.45	0.15	0.68				
						5.53	4471.00	Cum	24725.00	
4.	As per S.O.R. Page No. (109) Item No. (6.3.1)									
	Brick work with well burnt chimney bricks in bulls pattern trench kiln, crushing strength not less than 25kg /cm ² and water absorption not more than 20% in foundation and plinth i/c curing etc complete. Cement mortar 1:4 (1 cement : 4 sand)									
	Outer wall for shed	2x1	9.00	0.30	0.30	1.62				
		2x1	5.10	0.30	0.30	2.91				
		2x1	9.00	0.30	0.45	2.43				
	Plat form	4x1	5.40	0.30	0.45	2.91				
		2x1	9.00	0.20	0.45	1.62				

		4x1	5.60	0.20	0.45	2.01			
						11.50	5252.00	Cum	60398.00
5.	As per S.O.R. Page No. (19) Item No. (2.27.2) Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.								
6.	As per S.O.R. Page No. (462) Item No. (15.12) Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. Supplying and filling in plinth with soil (other than BC soil) having MDD not less than 1.85 t/m ³ under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 15cm depth and dressing complete.								
	Under floor	1x1	8.40	5.40	0.30	13.60			
	Under plat form	1x1	8.20	0.80	1.20	7.87			
						21.47	250.00	Cum	5368.00
7.	As per S.O.R. Page No. (38) Item No. (4.1.2.2) Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level : With 40mm nominal size graded stone aggregate. M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)								
		1x1	9.00	6.00	0.10	5.40	3808.00	Cum	20563.00
8.	As per S.O.R. Page No. (289) Item No. (10.14.2) Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes								
		8x1	4.00	32.00mt@12.20		390.40			
	Base plate	8x2	0.20	0.20	0.64@5 5kg/sqm	35.20			
	Hold fast for vertical pipe	8x2	0.50	--	--	8.00			
	4 nos. truss	8x2	0.15	--	--	2.40			
	Base tiles	4x1	6.00	--	--	24.00			
	Slope tiles	4x2	3.55	--	--	28.40			
	Middle vertical	4x1	0.80	--	--	3.20			
	1 st slope both side	4x2	1.15	--	--	9.20			
	1 st vertical both side	4x2	0.58	--	--	4.64			
	2 nd slope both side	4x2	0.87	--	--	6.96			
	2 nd vertical both side	4x2	0.38	--	--	3.04			
	3 rd slope both side	4x2	0.78	--	--	6.24			
	3 rd vertical	4x2	0.19	--	--	1.52			
	Purlins	2x5	9.00	--	--	90.00			
	Back side near tank	1x1	9.00	--	--	9.00			
						196.60			
				196.60@4Kg./m		786.40			
						1212.00	123.00	Kgs	149076.00
9.	As per S.O.R. Page No. (350) Item No. (12.15) Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +								

	0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self-drilling /self-tapping screws of size (5.5x 55mm) with EPDM seal, complete upto 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.								
	2x1	10.00	3.60	--	72.00	652.00	Sqm	46944.00	
10.	As per S.O.R. Page No. (351) Item No. (12.16.1) Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm : 0.05 % total coated thickness, Zinc coating 120gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self- tapping screws complete : Ridges plain (500 - 600mm).								
	1x1	10.00	--	--	10.00	320.00	Mt	3200.00	
11.	As per S.O.R. Page No. (350) Item No. (12.11) Extra for providing and fixing wind ties of 40x 6 mm flat iron section.								
	2x3	10.00	--	--	60.00	121.00	R/m	7260.00	
12.	As per S.O.R. Page No. (418) Item No. (13.64) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.								
	1x1	9.00	6.00	--	54.00	53.00	Sqm	2862.00	
13.	As per S.O.R. Page No. (407) Item No. (13.2.1) 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement : 4 sand)								
	Plat form outer	2x1	9.00	1.20	--	21.60			
		2x1	1.20	1.20	--	2.88			
						24.48			
	Outer shed base	2x1	9.00	0.30	--	5.40			
		2x1	6.00	0.30	--	3.60			
						33.48	184.00	Sqm	6160.00
14.	As per S.O.R. Page No. (414) Item No. (13.46) Wall painting by any mechanical or manual means with plastic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work								
	Qty same as plaster				33.48	64.00	Sqm	2143.00	
	Total							330636.00	
	Less 20% as per present prevailing rate							(-)66127.00	
	Balance							264509.00	
	Add 18% for GST							47612.00	
	Grand Total							312121.00	

Part (B) Water Supply and Sanitary

1.	As per S.O.R. Page No. (552) Item No. (18.28) Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank .								
		10x1	200.00	--	--	2000.00	7.00	Litre	14000.00
2.A	As per S.O.R. Page No. (530) Item No. (18.6.1.6) Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer- in-Charge. Internal work - Exposed on wall 50 mm nominal outer dia Pipes.								
		1x1	25.00	--	--	25.00	528.00	Mt	13200.00
B	As per S.O.R. Page No. (530) Item No. (18.6.1.5) 40 mm nominal outer dia Pipes.								
		1x1	20.00	-	--	20.00	354.00	Mt	7080.00
C	As per S.O.R. Page No. (530) Item No. (18.6.1.3) 25 mm nominal outer dia Pipes.								
		1x1	15.00	--	--	15.00	177.00	Mt	2655.00
3.A	As per S.O.R. Page No. (545) Item No. (18.13.4) Providing and fixing CPVC gate valve with knob of approved quality. 50 mm nominal bore								
		5x1	--	-	--	05	749.00	Nos.	3745.00
B	As per S.O.R. Page No. (545) Item No. (18.13.1) 25 mm nominal bore								
		5x1	--	--	--	05	428.00	Nos.	2140.00
4.	As per S.O.R. Page No. (555) Item No. (18.54.2) Providing and fixing PTMT stop cock of approved quality and colour. 20mm nominal bore. 89mm long. Weighing not less than 88 gms.								
		5x1	--	--	--	05	213.00	Nos.	2130.00
5.	As per S.O.R. Page No. (557) Item No. (18.51.3) Providing and fixing PTMT Ball cock of approved quality. colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball. 25 mm nominal bore. 152mm long. Weighing not less than 440 gms.								
		5x1	--	--	--	05	615.00	Nos.	3075.00
6.	As per S.O.R. Page No. (559) Item No. (18.60.1) Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee. including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore								
		4x1	--	--	--	04	247.00	Nos.	988.00

Total	49013.00
Less 20% as per present prevailing rate	(-)9803.00
Balance	39210.00
Add 18% for GST	(+) 7058.00
Grand Total	46268.00
Add for sprinkler and other miscn intems	34000.00
	80268.00
Say	80000.00

Grand total for part A & B =312121.00+80000.00=392121.00

The rates are applicable in MPPWD w.e.f. 15-09-2022

As proposed
R.V.S.K.V.V.

Executive Engineer
R.V.S.K.V.V., Gwalior

Estimate Prepared by me

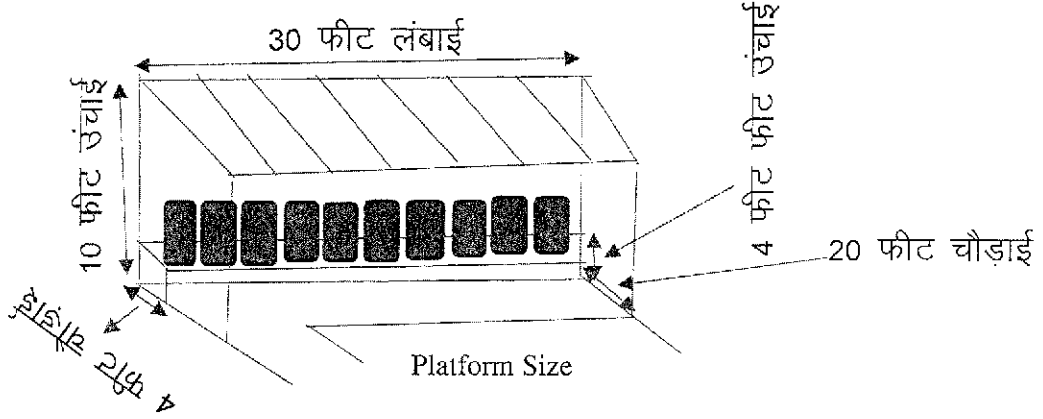
R.V.S.K.V.V.
5/12/23

Sub-Engineer
R.V.S.K.V.V., Gwalior

प्राकृतिक खेती इकाई

1. इकाई का आकार:-

- अ. लंबाई - 30 फीट
- ब. चौड़ाई - 20 फीट



2. प्लेटफार्म के लिए आवश्यक सामग्री:-

- अ. ईंट ब. रेत स. गिट्टी द. सीमेंट

3. प्लम्बर कार्य एवं सामग्री:-

- अ. 63 मि.मी. PVC पाईप, कपलर, टेप
- ब. 1 इंच टेप PVC पाईप, कपलर, टेप
- स. रेत फिल्टर 1, ड्रिप सिंचाई हेतु Ventury
- द. प्लास्टिक ड्रम 200 ली. क्षमता (संख्या 10)
- ई. जीवामृत, वेस्ट डिकम्पोजर, राइजोबियम, एजोटोबेक्टर, PSB, KSB, ZSB, Soya Tonic, VAM, Pseudomonas, Trichoderma, Beveria basiana
- फ. लेबर कार्य

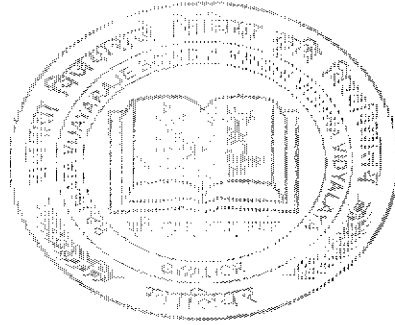
4. 30 फीट x 20 फीट टीन शेड सामग्री

- अ. चद्दर
- ब. आयरन एंगल
- स. जाली
- द. ईंट, रेत, सीमेंट एवं गिट्टी

RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA VIDYALAYA GWALIOR (M.P.)

OFFICE OF THE EXECUTIVE ENGINEER, R.V.S.K.V.V., GWALIOR

DETAIL ESTIMATE



**NAME OF WORK: - FOR RENOVATION/MINOR CIVIL WORK FOR CATTLE SHED AT R.V.S.K.V.V.,
CAMPUS GWALIOR**

AMOUNT: - Rs. 04.94 (Lakhs)

**RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA
VIDYALAYA GWALIOR (M.P.)**

		form							
5.9.2.1 Uptoplinthlevel.									
G.I. Beam		2x2	10.00	0.40	--	16.00			
		3x2	4.00	0.40	--	9.60			
		1x2	3.00	0.60	--	3.60			
		4x2	1.00	0.75	--	6.00			
		2x1	10.00	0.10	--	2.00			
		2x1	4.00	0.10	--	0.80			
						46.00	219/-	Sqm.	10074.00
7.	As Per S.O.R. Page No (19) Item No (2.27.2) Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete. 2.27.2 Supplying and filing in plinth with soil (other then BC soil) having MDD not less than 1.85 t/m3 under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 15cm depth and dressing complete.								
		1x1	9.40	3.60	0.30	10.15	250/-	Cum	2538.00
8.	As Per S.O.R. Page No (108) Item No (6.3.2) Brick work with well burnt chimney bricks in bulls pattern trench kiln, crushing strength not less than 25kg /cm2 and water absorption not more than 20% in foundation and plinth i/c curing etc complete. 6.3.2 Cement Mortar 1:6 (1 cement:6 sand).								
		2x1	10.00	0.20	0.30	1.20			
		3x1	3.60	0.20	0.30	0.64			
						1.84	5061/-	Cum	9312.00
9.	As Per S.O.R. Page No (109) Item No (6.4.2) Brick work with well burnt chimney bricks in bulls pattern trench kiln, crushing strength not less than 25kg /cm2 and water absorption not more than 20% in superstructure above plinth level and up to floor two level i/c curing etc complete. 6.4.2 Cement Mortar 1:6 (1 cement:6 sand).								
		2x1	4.50	0.20	3.30	5.94			
		1x1	3.60	0.20	3.30	2.37			
		2x1	5.00	0.20	1.50	3.00			
		2x1	3.60	0.20	1.50	2.16			
						13.47	5255/-	Cum	70785.00
10.	As Per S.O.R. Page No (422) Item No (14.2) Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead :								
		1x1	10.00	4.00	--				
						960.00	123/-	Kgs.	118080.00
11.	As Per S.O.R. Page No (340) Item No (12.8) Providing reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.								
		1x1	10.60	4.60	--	48.76	389/-	Sqm.	18968.00

12.	As Per S.O.R. Page No (341) Item No (12.11) Extra for providing and fixing wind ties of 40x 6 mm flat iron section.								
		3x1	10.40	--	--	31.20	121/-	Sqm.	3775.00
13.	As Per S.O.R. Page No (278) Item No (10.5.2) Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x5mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. 10.5.2 Using flats 30x6mm for diagonal braces and central cross piece.								
	1 mm thick	3x1	1.20	2.20	--	7.92	2604/-	Sqm.	20624.00
14.	As Per S.O.R. Page No (397) Item No (13.2.1) 15 mm cement plaster on the rough side of single or half brick wall of mix 13.2.1 1:4 (1 cement : 4 sand)								
	Both Side	2x1	4.50	3.60	--	32.40			
		2x1	4.00	3.60	--	28.80			
	Cattle Shed	1x1	18.00	2.00	--	36.00			
						37.20	184/-	Sqm.	17885.00
15.	As Per S.O.R. Page No (397) Item No (13.1.1) 12 mm cement plaster of mix : 13.1.1 1:4 (1 cement : 4 sand)								
	Both Side	1x1	18.00	3.60	--	64.80			
	Cattle Shed	1x1	16.40	1.70	--	27.88			
	Manger	1x1	14.00	0.60	--	8.40			
						101.08	173/-	Sqm.	17487.00
16.	As Per S.O.R. Page No (404) Item No (13.46) Wall painting by any mechanical or manual means with plastic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work								
	15mm. Plaster	--	--	--	--	97.20			
	12mm. Plaster	--	--	--	--	101.08			
						198.28	64/-	Sqm.	12690.00
17.	As Per S.O.R. Page No (713) Item No (29.3) Preparing of double line plan for planning of addition and alteration work after measurement of internal as well as external dimensions and details of existing door window, ventilator openings and partitions, addition /alteration done previously in buildings/structures and plotting the same separately showing sectional elevations (minimum two numbers) and all elevations along with all relevant details like doors, windows stairs etc in suitable scale as directed by Engineer-in-charge. The consultant shall also submit detailed condition survey report.								
		1x1	18.00	1.50	--	27.00			
						81.00	81/-	Kgs.	6561.00
18.	As Per S.O.R. Page No (278) Item No (10.2) Structural steel work using M.S. flats, angles, channels I-section, H-section etc. riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.								
						400.00	69/-	Kgs.	27600.00
19.	As Per S.O.R. Page No (515) Item No (18.28) Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank								
						500.00	7/-	Ltr.	3500.00

20.	As Per S.O.R. Page No (408) Item No (13.64)								
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.								
	1x1	10.00	4.00	--		40.00			
	1x1	18.00	1.50	--		27.00			
	3x2	1.20	2.20	--		15.84			
						82.84	53/-	Sqm.	4391.00
21.	As Per S.O.R. Page No (518) Item No (18.6.1.3)								
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 18.6.1.3 25 mm nominal outer dia .Pipes.								
	1x1	15.00	--	--		15.00	177/-	R/m	2655.00
22.	As Per S.O.R. Page No (518) Item No (18.6.1.1)								
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 18.6.1.1 15 mm nominal outer dia .Pipes.								
	1x1	15.00	--	--		15.00	129/-	R/m	1935.00
23.	As Per S.O.R. Page No (519) Item No (18.13.1)								
	Providing and fixing CPVC gate valve with knob of approved quality 18.13.1 25 mm nominal bore								
						02	428/-	Nos.	856.00
24.	As Per S.O.R. Page No (520) Item No (18.44.1)								
	Providing and fixing PTMT bib cock of approved quality and colour 15mm nominal bore. 18.44.1 86 mm long weighing not less than 88 gm								
						03	173/-	Nos.	519.00
25.	As Per S.O.R. Page No (557) Item No (19.9.1.1)								
	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design 19.9.1.1 With well burnt bricks								
						02	7997/-	Nos.	15994.00
26.	As Per S.O.R. Page No (534) Item No (18.14.2)								
	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 18.14.2 20 mm nominal bore								
						01	431/-	Nos.	431.00
27.	As Per S.O.R. Page No (19) Item No (2.27.1)								
	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete. 2.27.1 With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:-								

	maximum thickness of this layer to be provided shall be 30cm)								
		1x1	30.00	5.00	0.20	30.00	300/-	Cum	9000.00
28.	As Per S.O.R. Page No (479) Item No (17.11.1) Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : 17.11.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.								
		1x1	--	--	--	01.00	2460/-	Nos.	2460.00
29.	As Per S.O.R. Page No (554) Item No (19.4.2) Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm ² soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperataly. 19.4.2 160 mm dia 160 mm diameter OD (min. wall thickness 4.0mm)								
		1x1	12.00	--	--	12.00	477/-	Meter	5724.00
30.	As Per S.O.R. Page No (554) Item No (19.5.2) Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design: 19.5.2 160 mm dia 160 mm diameter PVC. pipe								
		1x1	12.00	--	--	12.00	704/-	Meter	8448.00
31.	As Per S.O.R. Page No (544) Item No (18.48.2.1) Providing and fixing PTMT grating of approved quality and colour. 18.48.2.1 150 mmdia 150 mm nominal size square 100 mm diameter of the inner hinged round grating.								
		1x1	--	--	--	01.00	148/-	Nos.	148.00
32.	As Per S.O.R. Page No (668) Item No (25.31) Stage decoration with arrangement of cut flower height 15cm to 75cm with 6 to 8 rows of flowers and fillers on the oasis (flower foam) in presentable manner in the tray as per design approved by authority including clearing of site (Cost of Tray, Oasis and Cut flowers shall be paid separately) as per direction of Engineer in charge.								
		1x1	--	--	--	01.00	1216/-	Nos.	1216.00
Total							Rs. 4,98,740=00		
Less @20%% as per present prevailing market rate							Rs. (-) 99,748=00		
							Rs. 3,98,992=00		
Add 18% for GST							Rs. 71,819=00		
							Rs. 4,70,811=00		
Add for Internal Electrification work @05.00%							Rs. 23,540=00		
							Rs. 4,94,351=00		
Say Rs. 04.94 Lakhs									
Rates are applicable in M.P.P.W.D. S.O.R. w.e.f. 15 Sept. 2022									

As proposed.
R.V.S.K.V.V.
Executive Engineer
R.V.S.K.V.V., Gwalior

Estimate Prepared by me
R.V.S.K.V.V.
7-12-2023
Sub-Engineer
R.V.S.K.V.V., Gwalior

