

## TENDER DOCUMENT

Name of work: Establishing of Drought Stress Facility in developing Filed at  
NIPGR Campus New Delhi.

Sub Head: Providing & Fixing Polycarbonate Sheet above the Drought  
Stress Field area at NIPGR Campus, New Delhi

CLIENT: DIRECTOR NIPGR,  
NEW DELHI

COST OF TENDER DOCUMENT: ₹ 500.00

## TENDER DOCUMENTS

**Name of work:** Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.

**Sub Head:** Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi.

**Owner :** Director NIPGR, New Delhi

**Tender Issued to :** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Place for submission/  
Place opening of tender document:**

NIPGR Campus,  
Aruna Asaf Ali Marg,  
New Delhi-110067

**Administrative Officer  
NIPGR, New Delhi**

**Last date for sale of tenders:** 29.11.2013 up to 16:00 hrs.  
**Date/Time of submission :** 02.12.2013 before 15.00 hrs.  
**Date/Time of opening :** 02.12.2013 at 15.30hrs.

**Administrative Officer  
NIPGR, New Delhi**

## TENDER FORM

To

**Administrative Officer  
NIPGR CAMPUS  
New Delhi.**

Dear Sir,

I/We have read and examined the following Tender Documents relating to the **"Name of work: Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.**

**Sub Head: Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi**

- Tender Notice
- General Conditions
- Instruction to bidders
- General Information
- Memorandum
- Special Terms & Conditions
- Bill/Schedule of Quantities
- Drawings.

I/We hereby offer to execute the work complete in all respects specified in the under written Memorandum within the time specified therein or during the allowed extended time at the rates specified in the bill of Quantities and in accordance, with the specifications, designs, drawings and instructions in writing referred to in the conditions of tender.

**(Seal & Signature of Contractor)**



F. No. NIPGR/7/55(A)/Vol.II

Dated: 13.11.2013

**TENDER NOTICE**

Sealed item rate Tenders are invited in two bids on behalf of the Director, NIPGR, Aruna Asaf Ali Marg, New Delhi – 110 067 for specialized category of civil work approved and eligible contractors & professional contractors having executed civil works, three similar works of polycarbonate shade with civil works each work costing not less than ₹ 4.00 Lacs (₹ Four Lacs only) OR two similar works each work costing not less than ₹ 6.00 Lacs (₹ Six Lacs Only) OR one similar works each work costing not less than ₹ 8.00 (₹ Eight Lacs Only) during the last Three years ending OCT. 2013. The completion certificate & having completed the work satisfactory must be signed not below the rank of Executive Engineer or its equivalent. The tender should reach this office upto 3.00 P.M. on or before 02.12.2013 for the following work:

**Name of work:**                      **Name of work: Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.**

**Sub Head:**                              **Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi**

Sl. No.	Estimated Cost (In Lacs)	EMD (In ₹)	Time for Completion	Last date & time for sale of Tender Documents	Last date & Time of receipt of Tender	Date & time of opening of tenders
1.	2.	3.	4.	5.	6.	7.
1.	₹ 9.01	₹ 18,025.00	45 days	29.11.2013 16.00 Hrs.	02.12.2013 15.00 Hrs.	02.12.2013 15.30 Hrs.

Tender documents can be obtained upto 16.00 Hrs. on all working days on payment of ₹ 500.00 (₹ Five hundred only) in cash (Non refundable) towards the cost of tender. The earnest money shall be in the form of Demand Draft of a Scheduled Bank issued in favour of the Director, NIPGR, New Delhi.

The tender documents can also be downloaded from our website [www.nipgr.ac.in](http://www.nipgr.ac.in) The tender documents downloaded from website must be accompanied with ₹ 500.00 (₹ Five hundred only) towards the cost of tender documents, otherwise the tender will not be considered.

Intending tenderers must produce original documents such as Completion Certificate, valid Registration, Partnership Deed, Banker's Certificate from scheduled bank for ₹ 10.00 lac, along with self-attested true copies.

**Administrative Officer**  
**NIPGR, New Delhi**



## GENERAL CONDITIONS

Sealed tenders on item rate basis are hereby invited from pre-qualified contractors for the work of  
**Name of work: Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.**

**Sub Head: Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi**

1. The tender document consists of Tender form, Notice inviting tender, Instructions to bidders, General Information, Schedule of quantity, General Conditions of contract Agreement, List of tests and technical specification, Bill of quantities etc. which can be had at a cost of ₹ 500.00 (₹ Five Hundred Only) from the office of Administrative Officer, NIPGR, JNU CAMPUS, New Delhi. Purchase of tender document is obligatory on the part of the tenderers & bid in no other form will be accepted.
2. The tender documents shall be placed in sealed cover as mentioned in Procedure of Submission of tender and addressed to the Administrative Officer, NIPGR, JNU Campus, and New Delhi. The tender shall be received by the Administrative Officer, NIPGR, and New Delhi before 15.00 hrs. on 02.12.2013 and shall be opened on the same day at 15.30 hrs. in presence of the tenderers or their authorized representatives who may like to be present. Any envelope received after the said date and time shall not be entertained under any circumstances and no consideration what so-ever shall be given to anything that might be contained in any such envelope.
3. The time allowed for the completion of work is **45 days** to be reckoned from the date of written order to commence the work.
4. Every tender shall be accompanied by earnest money for ₹ 18,025.00 (₹ Eighteen Thousand & Twenty Five Only) in the form of demand draft drawn in favour of the Director, NIPGR payable at New Delhi. Any tender not accompanied by such earnest money will be rejected straight away.
5. The contractor will submit his tender after examining the tender documents, scope of work, specifications, clauses, additional terms of contract agreement, special terms & conditions, bill of quantities etc.
6. The offer shall remain valid for 90 days from the date of opening of Tender. The value of tender can be increased or decreased and any item can be added, deleted, withdrawn or substituted without any notice as per the requirements of NIPGR without assigning any reason.
7. In case the issue of submission of false document comes to the notice after execution of the work. Institute shall have right to forfeit any amount due to the contractor along with forfeiture of security deposit furnished by the contractor. Further, such contractor/bidder shall be blacklisted for future with this Institute.
8. If a tenderer whose tender is accepted fails to undertake the work as per terms of the contract within 10 days to be reckoned from the date of issue of allotment letter, the earnest Money deposited will be forfeited.
9. NIPGR does not bind itself to accept the lowest or any tender and reserves the right to reject any or all tenders without assigning any reason.
10. NIPGR will not pay any expense, whatsoever incurred by tenderer for the preparation and submission of tenders.
11. This notice inviting tender, will form part of the contract agreement to be executed by the successful tenderer with the NIPGR.
12. All the correspondence on the tender shall be addressed to the Administrative Officer, NIPGR, campus,, New Delhi and any communication addressed to any one else shall not in any manner to be binding upon the Administrative Officer, NIPGR, Campus, New Delhi.
13. The following documents must require to be enclosed with tenders form, which are terms and Conditions for the Tender documents:

- a) Minimum turnover of the firm whole should not less than ₹ 25 lakhs. During last three financial year.
- b) Last three years continuous experience of the firm in the field of providing such services in Central Govt /state Govt/Autonomous Institutes of Govt. of India.
- c) Duly certified copies of the satisfactory services where the tenderer is providing the services for the last three years.
- d) Only those firms will be considered for financial bid who will qualify in the technical bid.

**Seal & Signature of Contractor**

**Administrative Officer  
NIPGR, New Delhi**



## INSTRUCTIONS TO BIDDERS

### 1. PROCEDURE FOR SUBMISSION OF TENDERS:

The following procedure shall be adopted for submission and opening of tenders. The sealed envelope SUPERSCRIBED Tender for **"Name of work: Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.**

**Sub Head: Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi**

#### **ENVELOPE NO.- 1**

This envelope shall contain only the earnest money deposit & technical bid and will be opened first.

#### **ENVELOPE NO.- 2**

This sealed envelope shall contain the financial bid of the contractor as per bill of quantities. This envelope shall be opened only after the EMD contained in envelope No.1 & technical bid is found in order as per the requirements of NIPGR. The date of opening of price bid shall be intimated later on.

The sealed cover containing envelope 1 & 2 shall be opened on the prescribed date and time in the presence of tenderers or their authorized representatives who may wish to be present.

### 2. TENDERERS TO STUDY ENTIRE TENDER DOCUMENT CAREFULLY:

Submission of a tender by a tenderer implies that he has read all the stipulations contained in this tender document and has acquainted himself of the nature, scope and specifications of the works to be followed.

### 3. TENDERER TO SUBMIT THE ENTIRE TENDER DOCUMENT:

The tenderer shall submit all documents issued to him for the purpose of this tender after duly filling the same in all respects. Tenders which are found to be vague or incomplete shall be rejected summarily.

### 4. TENDERERS TO QUOTE FOR ALL ITEMS:

The tenderer shall quote his rates in words and figures with reference to each item and must enter for all the items shown in the attached Bill of quantities. Incomplete offer shall be liable for rejection. In case there is a discrepancy in "words" and "figures", the rate in words will be taken as correct for evaluation of tender. All quantities should be calculated as per percentage given by the contractor and total should be given of every sub head and grand total should also be given of all heads.

### 5. VALIDITY PERIOD OF OFFERS:

The rates quoted in the tender shall hold good for 90 days from the date of opening of the tender. The validity period shall be extendable with the mutual consent of both the parties. No tenderer can withdraw/or modify his tender or revoke the same within the said period of 90 days. If a tenderer on his own withdraws or revokes the tender or revises or alters or modifies the tender for any item or condition within a period of aforesaid 90 days his earnest money deposit shall stand forfeited.

### 6. TENDERER TO SIGN ALL PAGES:

The tenderer shall stamp and sign at the bottom right hand corner of every page of the tender documents in token of acceptance of tender conditions and for the purpose of identification.



**7. ERASURES AND ALTERATIONS:**

Tenders containing erasures and alterations of the tender documents are liable to be rejected unless these are authenticated by the person signing the Tender Documents.

**8. TENDERER TO SATISFY HIMSELF OF SITE CONDITIONS:**

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender regarding nature of the site conditions, the means of access of the site, the accommodation they may require and in general obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender in any manner. A tenderer shall be deemed to have full knowledge of the site, whether he inspects it or not and no compensation or otherwise of any charges incurred or to be incurred consequent on any misunderstanding or otherwise shall be admissible.

**9. EARNEST MONEY:**

The tender shall be accompanied by earnest money of ₹ 18,025.00 (₹ Eighteen Thousand & Twenty Five Only) in the form of Demand Draft only drawn in favour of the Director, NIPGR payable at New Delhi. Earnest money of the unsuccessful bidder(s) shall be refunded after expiry of the validity period of the tenders/allotment of works whichever is earlier. In any case EMD is not submitted tender will be rejected.

**10. TENDERER TO QUOTE BOTH IN FIGURES AND WORDS:**

All tenderers shall quote the rate in figures as well as in words, the amount of each item shall be worked out and the requisite total given. Special care shall be taken to write percentage in figures and words, and the amount in figures only in such a way that interpolation is not possible. The total amount shall be written both in figures and in words.

**11. TENDER LIABLE TO REJECTION:**

Tenders which do not fulfill all or any of the conditions laid down in this notice, or contain conditions not covered and / or not contemplated by the Conditions of contract and/or expressly prohibited therein or stipulate additional/alternative conditions shall be liable to be rejected and his earnest money will be forfeited.

Tenders shall also be liable for rejection on any of the following grounds :-

- i) Tenders submitted late.
- ii) Tenders containing remarks uncalled for.
- iii) Conditional tenders
- iv) Tenders not submitted on prescribed Performa.
- v) Telegraphic tenders.

**12. CORRESPONDENCE:**

Tenderers must mention their postal address and telephone number(s) of the Chief Executive/authorized agent or attorney in the tender. The tender submitted by the tenderer will be rejected if he or his agent cannot be contacted on the last known address or on the intimated telephone number(s) after reasonable search in which event earnest money may be forfeited by the NIPGR.

**13. NIPGR NOT TO ASSIGN ANY REASON FOR REJECTION OF TENDER:**

NIPGR hold absolute discretion to accept or reject the lowest or any other tender without assigning any reason. No claim on this account shall be entertained.

**14. AMENDMENT IN TENDER DOCUMENTS:**

NIPGR reserves the right to revise or amend the Bid Documents upto the date prior to the date notified for opening of the tenders and also the right to postpone the date of submission and opening of tenders without assigning any reason, whatsoever.



**15. REFERENCE IN TENDER DOCUMENTS:**

Director, NIPGR, shall be referred as "Owner" in all the documents of Tender documents/contract agreement.

**16. ENGINEER**

Where ever the word "Engineer" occurs it shall mean the authorized Engineer appointed by the NIPGR for the superintendence of the execution of works.

**Administrative Officer  
NIPGR, New Delhi**

**Seal & Signature of Contractor**

## GENERAL INFORMATION

1. Accepting Authority Director,  
NIPGR, New Delhi.
2. Earnest money ₹ 18,025.00 (₹ Eighteen Thousand & Twenty Five Only)  
to be furnished with the tender in the form of the demand  
draft (No interest is payable on security deposit)
3. Security deposit The security deposit will be collected by deductions from  
the running bills of the contractors at the rate mentioned  
below and the earnest money, if deposited at the time of  
tender, will be treated as part of security deposit.  
Performance security may be accepted as Bank  
Guarantee of Scheduled Banks and State Bank of India.  
A sum @ 10% of the gross amount of the bill shall be  
deducted from each running bill of the contractor till the  
sum along with the sum already deposited as earnest  
money, will amount to Security Deposit of 5% of the  
tendered value of the work. In addition, the contractor  
shall be required to deposit an amount equal to 5% of the  
tendered value of the contract as Performance Security  
within the period prescribed for commencement of work  
in the letter of award issued to him.
4. Authority competent to grant extension of time Director NIPGR or authorized person by Director, NIPGR
5. Tools & plants To be arranged by contractor
6. Authority competent to reduce the compensation amount Director, NIPGR
7. Release Security Deposit The performance security shall be refunded to the  
contractor on completion of the work and recording of  
completion certificate and the balance shall be released  
after one year of completion.
8. Periodicity of submission of Bills Monthly
9. Authority Competent to Appoint Arbitrator Director, NIPGR

Seal & Signature of Contractor

Administrative Officer  
NIPGR, New Delhi



## MEMORANDUM

- a) Name of work                      Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.
- Sub Head: Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi
- b) Estimated cost                      ₹ 9,01,250.00 (₹ Nine Lacs & One thousand & two Hundred fifty Only)
- c) Earnest money                      ₹ 18,025.00 (₹ Eighteen Thousand & Twenty Five Only) in the form of Demand Draft in favour of DIRECTOR NIPGR payable at JNU CAMPUS, New Delhi. (No interest is payable on earnest money).
- d) Time allowed for the completion of work                      45 days.

Place

(Seal & Signature of Contractor)

Date:

## SPECIAL TERMS & CONDITIONS

**"Name of work:** Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.

**Sub Head:** Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi

1. The contractor should visit the site and make them self-acquainted with the location of site. The Department shall not entertain any extra claim later on.
2. The site of work is at NIPGR Campus, Aruna Asaf Ali Marg New Delhi-110067.
3. The contractor shall make his own arrangement for the security of material at site.
4. The contractor shall arrange all T&P and nothing extra will be paid.
5. The contractor must get the prior approval of materials from the Engineer- In -Charge.
6. The rates shall be inclusive of Transportation, loading, unloading and handling charges of material.
7. The rates will be for finished items inclusive of the cost of material & Labour.
8. Water & Electricity if required shall be provided by the Institute free of Cost.
9. The rates shall be inclusive of all taxes including VAT & Service tax.
10. The contractor shall follow all labour laws as prevailing in Delhi.
11. All works shall be completed to the entire satisfaction of the Engineer-in-charge.
12. The management reserves the right to reject / accept any or all quotation without assigning any reason.
13. In case of any dispute the decision of the Engineer-in-charge shall be final & binding on the contractor.
14. Any work not carried out as per instructions of the Engineer-in-charge shall be dismantled and re-constructed by the contractor without any extra cost.
15. The work shall be completed in all respects within 45days after issue of issue of work order. Being a time bound contract, and the contractor shall be liable to pay compensation @1.0% per day subject to maximum of 10% of work order amount if the work is not completed within stipulated time of Completion.
16. The Contractor shall be responsible for any damages and site clearance and nothing extra will be paid. In case the site clearance and damages are not attended, a recovery amounting to ₹. 25,000/- (₹. Twenty Five thousand only) shall be made.
17. Payment shall be made on prorata basis on completed work and final payment will be paid after completion work.
18. The quotation must be accompanied with EMD of ₹ 18,025.00 (₹ Eighteen Thousand & Twenty Five Only) EMD shall be in the form of DD of scheduled bank drawn in favour of **"Director NIPGR" New Delhi.**
19. The **EMD shall be enclosed in a separate envelop duly marked EMD which shall be opened first.**
20. **PAN & TIN** issued by the respective departments must be mentioned while quoting the rates. The quotation without these numbers will not be considered.
21. The contractor shall write the rates & Amount in word & figures both.
22. All papers attached with this Quotation should be signed & returned in original.

PAN No. -----  
TIN No. -----

Seal & Sign of Contractor

**Administrative Officer**  
**NIPGR New Delhi**



## SCHDULE OF QUANTITIES

ITEM NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
----------	---------------------	------	------	------	--------

Attached at page No. 14-15.

Should this tender be accepted, in whole or in part I/We hereby agree to abide by and fulfill all the terms & provisions of the conditions of tender as applicable or in default there of a sum of for ₹ 18,025.00 (₹ Eighteen Thousand & Twenty Five Only) deposited by me/us as earnest money in favour of NIPGR , New Delhi., shall stand absolutely forfeited to NIPGR.

I/We agree:

- (i) that should I/We fail to commence the work specified in the above mentioned Memorandum the NIPGR without prejudice to any other right or remedy shall be at liberty to forfeit the earnest money. Otherwise the said earnest money shall be retained and adjusted towards security deposit mentioned in the above Memorandum
- (ii) to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

The names and postal addresses and contract phone nos. of our representative(s) authorized to deal with this tender are:

1)

2)

3)

Dated the \_\_\_\_\_ day of \_\_\_\_\_ 2013

**Signature of Tenderer**

## Schedule of Quantity

**Name of work:** Name of work: Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.  
**Sub Head:** Providing & Fixing Polycarbonate Sheet above the -Drought Stress Field area at NIPGR Campus, New Delhi

.N.	Description	Unit	Qty	Rate	Amount
	<b>Drought Stress Facility:</b> Providing & fixing of Drought Stress shed with 6 mm Lexan Polycarbonate sheet in more than 80% light transparent in colourless or approved colour by Engineer -In Charge with aluminium profiles, EPDM rubber gasket. The joints of sheets with the sections to be filled with silicon sealant to have a complete water proof arrangement. Providing & fixing of welded MS structure including, welding & fixing as per the requirement. Complete in all respect along with all fixing accessories including screws etc. Complete, with one coat of primer & two coat of synthetic enamel paint on the MS Structure. as per drawings complete and as per Instruction of Engineer -in-charge. as follows -				<b>Total amount</b>
1	Earth work in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sq.m on plan) including disposal of excavated earth, lead upto 1.00km and lift upto 1.5m, disposed earth to be levelled and neatly dressed				
	a) All kinds of soil	Cum	40		
	b) ordinary rock	Cum	85		
	c) Hard rock	Cum	65		
2	Cement concrete for the following specified mix using graded stone aggregate of 20mm. maximum size including machine mixing, transporting, placing in position consolidation, finishing, curing etc. in all works upto plinth level complete as per specifications as directed. Complete as per instruction of Engineer-in-charge.				
	a) C.C 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 20mm nominal size)	Cum	20		
3	Brick work with bricks of class designation 75 in Cement Mortar 1:6 (1 cement: 6 Coarse sand) to correct line, level and Plumb scaffolding including raking out joints/ simultaneous flush pointing with cement mortar 1:6, curing etc. complete upto plinth. as per specifications. Complete as per instruction of Engineer-in-charge.				NOT TO BE FILLED
	Brick work of class designation 75 in foundation and plinth in :				
	a) Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	32		
4	Structural steel work welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying approved Colour & shade of Synthetic Enamel paint with two coat or more over a priming coat of approved steel primer all complete: as per drawing & instruction of Engineer-in-charge.	Kg.	650		
5	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying approved Colour & shade of Synthetic Enamel paint with two coat or more over a priming coat of approved steel primer, welded and bolted including special shaped washer etc. complete as per drawing & instruction of Engineer-in-charge.				
	Hot finished welded type tube in different section as per drawing requirement.	Kg.	1450		
6	6 mm Lexan Polycarbonate sheet in more than 80% light transparent, colourless or approved Colour by Engineer -In Charge with aluminium profiles, EPDM rubber gasket. The joints of sheets with the sections to be filled with Transparent silicon sealant to have a complete water proof arrangement. complete and as per Instruction of Engineer -in-charge.	Sqm	210		
7	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level				
	a) 1:2:4 (1 Cement : 2 Coarse sand : 4 Graded stone aggregate 20mm nominal size)	Cum	5		
8	Centering & shuttering including strutting propping, etc., and removal of form for				
	a) Column, pillars, piers, Abutment, etc.	Sqm.	20		
9	Before commencement of plastering the area shall be very closely hacked, cleaned, wetted and shall be marked with 'Thiyyas' or 'Tapanis' and shall be got approved by the Engineer-in-charge with no extra cost to deptt.				
	12 mm cement plaster finished with a floating coat of neat cement of mix :				
	a) 1:3 (1 cement : 3 Coarse sand)	sqm	400		



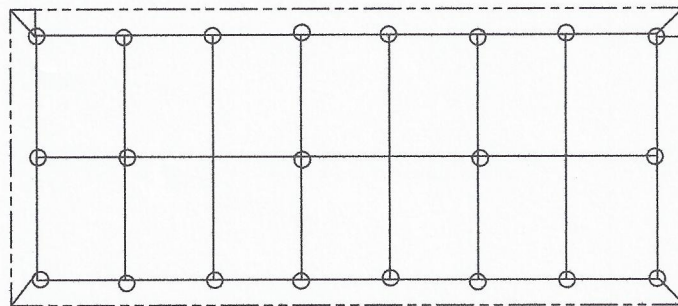
- 10 Supplying and stacking of good earth at site including royalty and carriage up to site (earth measured in stacks will be reduced by 20% for payment). Spreading at designated site as directed by the Engineer-in-charge.
- 11 Supplying and stacking manure(Cow dung) at site including royalty and carriage up to site (sludge measured in stacks will be reduced by 8% for payments) and spreading at designated site as directed by the Engineer-in-charge.

Cum 212

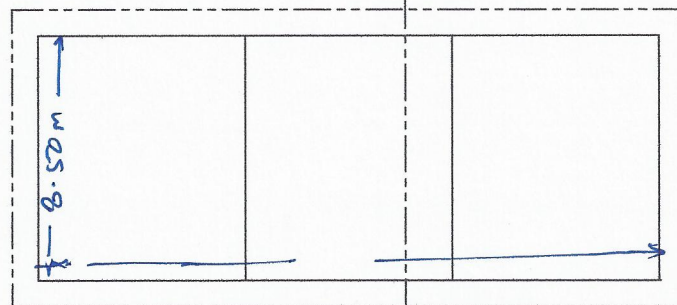
Cum 12

Seal & Signature of Contractor

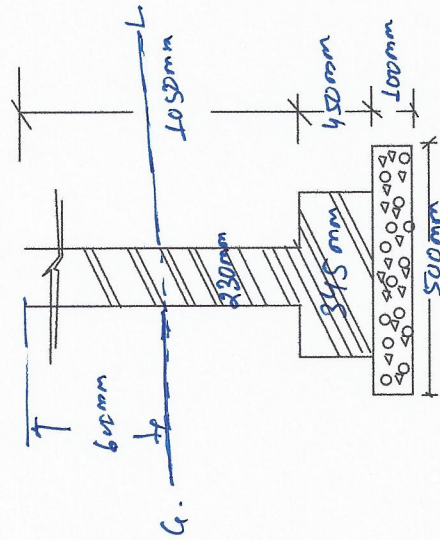
Administrative Officer  
NIPGR, New Delhi



Plan of Drought Stress Facility at AA

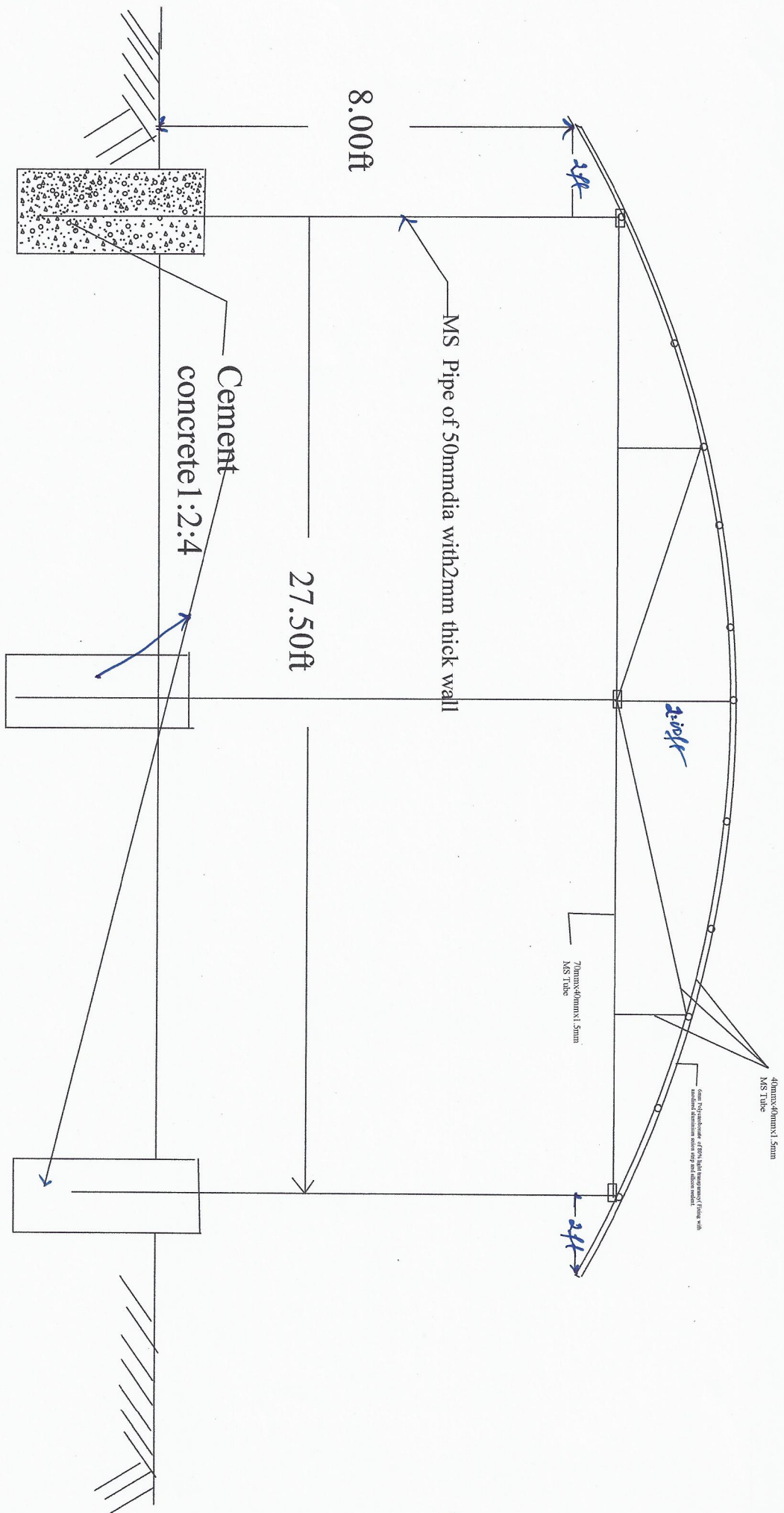


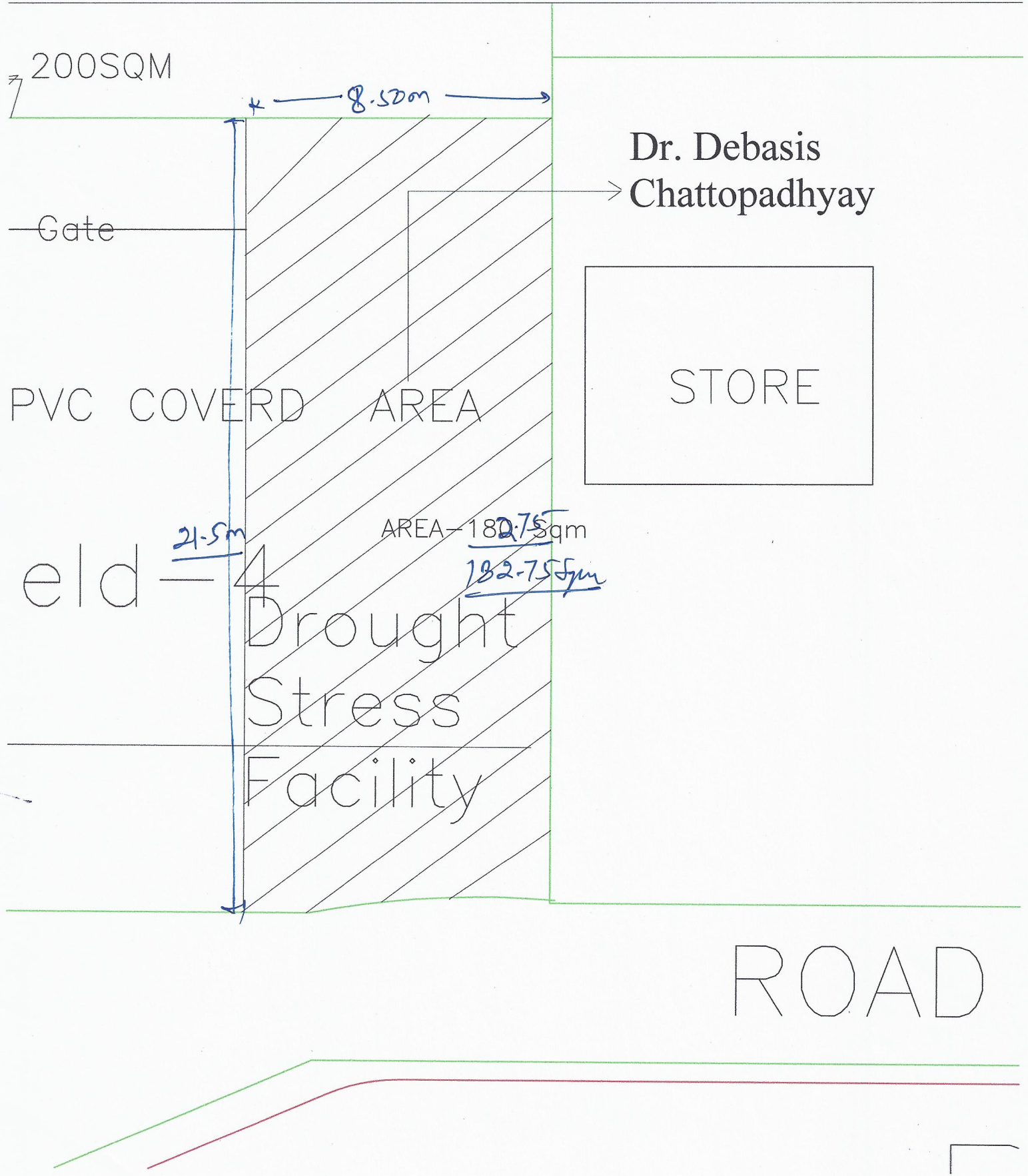
Plan of Drought Stress Facility



Section of Brick work









## **FINANCIAL BID**

**Name of work: Establishing of Drought Stress Facility in developing Filed at NIPGR  
New Delhi.**

**Sub Head: Providing & Fixing Polycarbonate Sheet above the Drought Stress Fiel  
NIPGR Campus, New Delhi**

**CLIENT : DIRECTOR NIPGR  
NEW DELHI**



Schedule of Quantity					
Name of Work : Establishing of Drought Stress Facility in developing Filed at NIPGR Campus New Delhi.					
Sub Head: Providing & Fixing Polycarbonate Sheet above the Drought Stress Field area at NIPGR Campus, New Delhi					
S.N.	Description	Unit	Qty	Rate	Amount
	Drought Stress Facility: Providing & fixing of Drought Stress shed with 6 mm Lexan Polycarbonate sheet in more than 80% light transparent in colourless or approved colour by Engineer -In Charge with aluminium profiles, EPDM rubber gasket. The joints of sheets with the sections to be filled with silicon sealant to have a complete water proof arrangement. Providing & fixing of welded MS structure including, welding & fixing as per the requirement. Complete in all respect along with all fixing accessories including screws etc. Complete, with one coat of primer & two coat of synthetic enamel paint on the MS Structure. as per drawings complete and as per Instruction of Engineer-in-charge.as follows -				
1	Earth work in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sq.m on plan) including disposal of excavated earth, lead upto 1.00km and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	a) All kinds of soil	Cum	40		
	a) ordinary rock	Cum	83		
	c) Hard rock	Cum	62		
2	Cement concrete for the following specified mix using graded stone aggregate of 20mm maximum size including machine mixing, transporting, placing in position consolidation, finishing, curing etc. in all works upto plinth level complete as per specifications as directed. Complete as per instruction of Engineer-in-charge. a) C.C 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 20mm nominal size)	Cum	20		
3	Brick work with bricks of class designation 75 in Cement Mortar 1:6 (1 cement: 6 Coarse sand ) to correct line, level and Plumb scaffolding including raking out joints/ simultaneous flush pointing with cement mortar 1:6, curing etc. complete . upto plinth. as per specifications. Complete as per instruction of Engineer-in-charge. Brick work of class designation 75 in foundation and plinth in :				
	a) Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	30		
4	Structural steel work welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying approved Colour & shade of Synthetic Eanmel paint with two coat or more over a priming coat of approved steel primer all complete: as per drawing & instruction of Engineer-in-charge.	Kg.	650		
5	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying approved Colour & shade of Synthetic Eanmel paint with two coat or more over a priming coat of approved steel primer , welded and bolted including special shaped washer etc. complete as per drawing & instruction of Engineer-in-charge. Hot finished welded type tube in different section as per drawing requirement.	Kg.	1450		
6	6 mm Lexan Polycarbonate sheet in more than 80% light transparent ,colourless or approved Colour by Engineer -In Charge with aluminium profiles, EPDM rubber gasket. The joints of sheets with the sections to be filled with Transparent silicon sealant to have a complete water proof arrangement. complete and as per Instruction of Engineer-in-charge.	Sqm	210		
7	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level a) 1:2:4 (1 Cement : 2 Coarse sand : 4 Graded stone aggregate 20mm nominal size)	Cum	5		
8	Centering & shuttering including strutting propping, etc., and removal of form for a) Column, pillars, piers, Abutment, etc.	Sqm.	20		
9	Before commencement of plastering the area shall be very closely hacked, cleaned, wetted and shall be marked with 'Thiyyas' or 'Tapanis' and shall be got approved by the Engineer-in-charge with no extra cost to deptt. 12 mm cement plaster finished with a floating coat of neat cement of mix : a) 1:3 (1 cement : 3 Coarse sand)	sqm	400		
10	Supplying and stacking of good earth at site including royalty and carriage up to site (earth measured in stacks will be reduced by 20% for payment). Spreading at designated site as directed by the Engineer-in-charge.	Cum	210		
11	Supplying and stacking manure (Cow dung) at site including royalty and carriage up to site (sludge measured in stacks will be reduced by 8% for payments) and spreading at designated site as directed by the Engineer-in-charge.	Cum	12		
12a)	Dismantling Polycarbonate covering over steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 200 metres lead.	One Job	1		
12b)	Demolishing cement concrete in pedestal foundations with MS angles, manually/ by mechanical means including disposal of material within 200 metres lead as per direction of Engineer - in - charge.	One Job	1		
			Total amount		
			(In words Rs.-----)		
<b>Administrative Officer</b>					
<b>NIPGR New Delhi</b>					
<b>Seal &amp; Sign of Contractor</b>					