

# MEGHALAYA NON-CONVENTIONAL AND RURAL ENERGY DEVELOPMENT AGENCY

Near BSF Camp Mawpat, Shillong-793012.  
Phone No.0364-2537343/2536138# Fax No.0364-2537611  
E-Mail mnreda.dir@gmail.com ## Website-www.mnreda.Gov.in

Tender document for construction of 250 (two hundred fifty) Nos. 3m<sup>3</sup> family size Deenbandhu Biogas Plant during the year 2014-2015 in the State of Meghalaya.

Tender Notice No.MNREDA/1603/2014-2015/BE/119

Dated 12<sup>th</sup> June, 2015.

Date of sale of Tender document : 12<sup>th</sup> June to 22<sup>nd</sup> June, 2015  
Date of receipt of Tender : 22<sup>nd</sup> June, 2015 at 12.00 noon.  
Date of opening of Tender : 22<sup>nd</sup> June, 2015 at 2.00 p.m.  
Cost of Tender Document : Rs.560/- (Rupees five hundred sixty)only.

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

Date of Issue : \_\_\_\_\_

Issued by : \_\_\_\_\_

Member Secretary-cum-Director,  
Meghalaya Non-Conventional and Rural Energy  
Development Agency (MNREDA), Shillong.

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## **NOTICE INVITING TENDER**

No.MNREDA/1603/2014-2015/BE/119 :- Sealed tender with 60(sixty) days validity are invited from trained individual Biogas Contractor/Firm (RETs) for the construction of 250 (two hundred fifty) Nos. of 3m<sup>3</sup> Family Size Deenbandhu Biogas Plant in Rural Villages of Meghalaya.

Detailed Tender documents may be obtained from the Office of the undersigned on payment of Rs.560/- (Rupees five hundred sixty) only by cash/DD pledged in favour of the Member Secretary-cum-Director, Meghalaya Non-Conventional and Rural Energy Development Agency, Shillong, on any working days during office hours with effect from 12<sup>th</sup> June to 22<sup>nd</sup> June, 2015. The last date of receipt of tender is on 22<sup>nd</sup> June, 2015 at 12.00 noon and shall be opened on the same date at 2.00 P.M. in the Office Chamber of the Member Secretary-cum-Director, Meghalaya Non-Conventional and Rural Energy Development Agency, Shillong in presence of tenderer or their authorized representatives.

Member Secretary-cum-Director,  
Meghalaya Non-Conventional and  
Rural Energy Development Agency,  
Shillong.

Memo.No.MNREDA/1603/2014-2015/BE/119 (a) Dated Shillong, the 12<sup>th</sup> June, 2015.

Copy to :-

1. The Editor,  
“Salantini Janera”  
C/O Shillong Times  
Rilbong Shillong.
  2. The Editor,  
U Mawphor  
Mawkhar Main Road,  
Shillong.
  3. NIC, Meghalaya  
Shillong.
  4. Notice Board.
  5. The District Project Officers Concerned.
- With a request to publish in one issue of their newspaper.
- For display in the website of MNREDA.

Member Secretary-cum-Director,  
Meghalaya Non-Conventional and  
Rural Energy Development Agency,  
Shillong.

## 2. **Instruction to Tenderer :-**

- i) **Earnest Money Deposit** :- Earnest Money/cum Security Deposit at the rate of 1% of the quoted tender value for Scheduled Tribe and Scheduled Caste and 2% of the quoted tender value for General, in the form of BG/Call Deposit/FDR from any Scheduled or Nationalized Bank drawn in favour of Member Secretary-cum-Director, Meghalaya Non-Conventional and Rural Energy Development Agency, Shillong.
- ii) **VAT, Professional Tax Clearance Certificate** :- The Tenderers are required to submit VAT registration and VAT clearance certificate up to March, 2015 and also the Professional Tax Certificate from the concerned authority.
- iii) **Scheduled Tribe/Scheduled Caste** :- Scheduled Tribe/Scheduled Caste tenderers are to submit the ST/SC certificate issued by the Deputy Commissioner of their respective District.
- iv) **Trading License** :- Non-Tribal tenderers are required to submit their Trading License issued from respective Autonomous District Council.
- v) **Labour License** :- Attested copy of up to date labour license should be submitted.
- vi) **CCM Training** :- Tenderers should possess CCM training certificate from MNREDA/Authorized Institution to be submitted along with experience certificate from any Competent recognized Institution.
- vii) **Attestation of supporting paper** :- All supporting papers are to be attested by a Gazetted Officer.
- viii) **Rate quoted** :- The rate quoted as per bidding schedule should be inclusive of taxes and duties and other incidental expenses.
- ix) **Name and address of the tenderer** :- Name and address of the tenderer should be indicated in a distinct manner.
- x) **Mason certificate** :- The tenderer should have at least 3(three) trained masons and Mason certificate should be submitted.
- xi) **Signing of tender paper** :- Tenders are required to sign and seal all pages of tender paper/document issued and it will be viewed as acceptance of the terms and conditions containing therein. Any unsigned tender papers will be automatically rejected.

- xii) **Payment Terms and Conditions :-**
- a) 70% will be paid on completion of work
  - b) 20% will be paid after successful commissioning of the plant.
  - c) 10% will be released after the guarantee period or on successful commission of the plant but on furnishing of BG/FDR of like amount valid for a period of 1(one) year.
- xiii) **Guarantee/Warrantee period :-** The Guarantee or Warrantee period of the plant is for 1(one) year from the date of commissioning of the plant.
- xiv) **Time of Completion :-** Work should be completed within 180 (one hundred eighty) days from the date of issue of work order.
- xv) **Submission of Bids :-** The tender is of two parts bid and should be submitted as below :-
- (a) General and Commercial Terms and Conditions as 1<sup>st</sup> bid in a separate sealed envelope which should consist of VAT Registration, VAT clearance certificate upto March,2015 Professional Tax clearance certificate, Scheduled Caste/Schedule Tribe certificate/trading license, CCM training certificate, Mason certificate, experience certificate or any other document.
  - (b) Price bid as 2<sup>nd</sup> bid in a separate sealed envelope which should contain EMD and price bid as per format in the tender document.
- xvi) **Target :-** The tenderers are required to indicate the target they are likely to complete within a specified date.
- xvii) **Preference :-** Preference of District is to be indicated and marked in section 4 of this document, without which the offer will be rejected.  
in the 1<sup>st</sup> bid.
- xviii) **Distribution of plants/works :-** Distribution of work will depend upon contractor choice of District and as per target indicated in bidding scheduled.

- xix) **Undertaking :-** All successful bidders on finalization of work will be called and an undertaking has to be signed with the office with regards to target allotted as per their choice of preference.

### **3. CONSTRUCTION TECHNIQUES OF DEENBANDHU BIOGAS PLANTS SPECIFICATION.**

To build a faultless Deenbandhu biogas plant it is essential that all the construction work is done in a systematic manner and by taking all the suggested precautions. The following is the sequence and details of the constructional methodology evolved for these plants.

The following points for selecting the site for installation a Deenbandhu Plant.

- i) The surface should be even
- ii) The site should be at a slightly higher elevation than the surroundings so that there are no chances of water logging in rainy seasons.
- iii) The site where the plant is to be installed should be as near to the point gas utilization as possible.
- iv) The site should be closed to the cattle shed to eliminate any difficulty during the collection of dung.
- v) Water availability near the plant is essential
- vi) The edge of the plant should be at least 2m (6 ft) away from the foundation of the house or any other buildings.
- vii) To avoid carrying of spent slurry to very long distances, the space for the compost P:1- should be available near the plant.
- viii) The location of plant should be at least 10-15 m (30-40 ft) away from any source of drinking water.
- ix) The bearing stress of the earth should not be very less to eliminate the possibility of sinking of the plant.

x) **Main dimensions and details of Deenbandhu Biogas Plants:-**

Dome size	3m <sup>3</sup>
Dome details	
Dome inside radius	145.00
Wall thickness	2.50
Depth of bottom curved portion at centre from the dome centre	58 .00
Radius of curvature of excavation	212.50
Height of centre of curvature above ground level.	5.00
Dome top level	0.00
Earth filling over the plant	15.00
Wall thickness of outer pocket	2.50
Size of outlet pocket	60x60
Size of outlet tank	100x232.5
Diameter of mixing tank	60.00
Height of mixing tank	60.00
Width of arch opening	60.00
Height of arch opening	57.50
Diameter of the inlet pipe	15.00

**Dimensions in cm.**

4. **Distribution of Biogas Plant :**

Sl. No.	Name of District	Nos. allocated (Nos.)	Contractor choice of preference i.e. I,II,III,IV.
1.	West and South West Khasi Hills	75 Nos.	
2.	West and South West Garo Hills	75 Nos.	
3.	Ri-Bhoi	75 Nos.	
4.	East Garo Hills and North Garo Hills	25 Nos.	
	Total		

Note : Column 4, table above the contractor should marked in the space provided their area of choice for District i.e. if 1<sup>st</sup> preference is R-Bhoi District they should marked it as I, in column 4 if 2<sup>nd</sup> preference is West Garo Hills District they should marked as II in column 4 and so on.



**6. Bidding Scheduled :-**

- (i) Target \_\_\_\_\_Nos.  
(ii) Price Bid details :

Sl. No.	Materials	Quantity	Rate
1.	Bricks	1500 Nos.	
2.	Cement	16 bags	
3.	Stone chips	55 cft	
4.	Coarse sand	60 cft	
5.	Find sand	50 cft	
6.	GI Pipe ½ dia 6 ft.	1 No.	
7.	AC pipe 6” dia 6 ft.	1 No.	
8.	Iron bars 6mm dia for out let tank cover	10 kgs	
9.	Block enamel paint	1.5 ft	
10.	Pipe fitting required 1 full gate valve-1 No.nipple, nozzle, bendo and polythen pipe		
11.	Double burner(chrome plated )gas stove	1 No.	
12.	Carrying charge		
13.	Labour pit digging 15 days		
14.	Master mason (trained person 10 days)		
15.	Labour for plant construction 20 days		
	Total cost of each plant.		

(Rupees \_\_\_\_\_)  
\_\_\_\_\_ ) only.

Date : \_\_\_\_\_

Full name and signature along with seal  
of the contractor/firm/NGO.

**7. Declaration of the Tenderer :**

This is to certify that I have read the terms and conditions of the Detailed Tender Notice issued by the MNREDA Shillong vide No. and that I have quoted my rates taking the terms and conditions of the above Detailed Tender Notice.

I have also taken into consideration the Forest Royalty on minor materials and taxes including VAT and Income Tax and Labour License.

I/we have inspected the site of work and location of quarry/quarries and have myself/ourselves fully acquainted with the local conditions in and around the site of work.

My/our tender is offered taking due consideration of all the factors and if the same is accepted, I/we promise to abide by all the stipulated conditions of the contract agreement and execute the works to the satisfaction of the department.

I/we hereby declare that the work will be done by myself/ourselves without sub-letting to others.

I/we hereby declare that the signature in all the pages of the tender document are signed by me/us.

(Signature of the tenderer)

Witness :-

Signature : \_\_\_\_\_

Name : \_\_\_\_\_

Address : \_\_\_\_\_

## LIST OF SIMILAR KIND OF WORKS EXECUTED

NAME OF CONTRACTOR : \_\_\_\_\_

Sl. No.	Name of work	Name of Department/Division	Value of work (in Rs.)	Date of completion of the work.	Work order No. & date

- Separate sheet may be used but as above format.

(Signature of the Contractor)