

MEGHALAYA NON – CONVENTIONAL 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](mailto:mnreda.dir@gmail.com) # Website : [www.mnreda.Govt.in](http://www.mnreda.Govt.in).

Tender Document for construction of 500(five hundred) Nos cum family size Deenbandhu Biogas plant during the year 2012 – 2013 in the State of Meghalaya.

Tender Notice No.MNREDA/1488/2012/15 : Dated 10<sup>th</sup> Dec. 2012.

Date of sale of Tender document : 10<sup>th</sup> Dec 2012 to 11<sup>th</sup> Jan 2013.

Date of receive of Tender : 14<sup>th</sup> Jan 2013 at 12.00 noon.

Date of opened of Tender : 14<sup>th</sup> Jan 2013 at 1.p.m.

Cost of Tender Document : Rs 2000/- (Rupees Two thousand)only.

Tender Issue to : .....

.....

.....

Date of Issue: .....

Issued by : .....

Director cum Member Secretary

MNREDA.

## INDEX

1. SHORT TENDER NOTICE	-	1
2. INSTRUCTION TO TENDERER	-	2-4
3. CONSTRUCTION TECHNICS INSTRUCTIONS	-	4-6
4. DISTRIBUTION OF BIOGAS PLANT	-	6
5. BIDDING SCHEDULED FOR 3 CUM DEENBANDHU	-	7

# 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](mailto:mnreda.dir@gmail.com) ## Website [www.mnreda.Govt](http://www.mnreda.Govt),

## **1. SHORT TENDER NOTICE**

No.MNREDA/1488/2012/15 :- Sealed tender with 60(sixty) days validity are invited from trained individual Biogas Contractor / Firm for construction of 500(five hundred)Nos. of 3m<sup>3</sup> Family Size Deenbandhu Biogas Plants in Rural Villages of Meghalaya.

Detailed tender documents can be obtained from the office of the undersigned on payment of Rs.2000/- (Rupees two thousand) only non-refundable by Demand Draft pledge to the Member Secretary-cum-Director , Meghalaya Non-Conventional and Rural Energy Development Agency with effect from 10<sup>th</sup> December, 2012 upto 11<sup>th</sup> January, 2013 on any working day during office hours. The last date of receipt of tender is on the 14<sup>th</sup> January,2013 at 12.00 noon and shall be opened on the same date at 1.00 p.m. in presence of the tenderer or their authorized representatives who may like to be present.

Sd-  
Member Secretary Cum-Director,  
Meghalaya Non-Conventional &  
Rural Energy Development Agency,  
Shillong.

Memo.No.MNREDA/1488/2012/15(a)

Dated Shillong, the 5<sup>th</sup> December, 2012

Copy to :-

1. The Editor  
"Salantini Jenera"  
C/O.Shillong Times  
Rilbong Shillong.
2. "The Editor,  
U Mawphor  
Mawkhar Main Road,  
Shillong.
3. NIC,Meghalaya  
Shillong.
4. Notice Board.

With a request to publish in one issue of their newspaper and submit bill in duplicate along with published materials for payment.

For placing in the website of MNREDA.

Sd-  
Member Secretary Cum-Director,  
Meghalaya Non-Conventional & 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(MNREDA).
- ii) **VAT, Professional Tax clearance certificate** : The Tenderer are required to submit VAT registration and VAT clearance certificate upto March 2012 and also the Professional Tax Certificate from concerned authority.
- iii) **Scheduled Tribe/Scheduled Caste** : Scheduled Tribe/Scheduled Caste tenderers are to be 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) **CCM Certificate** : Tenderer should possess CCM Training certificate from MNREDA/Authorised Institution to be submitted along with experience from any recognized Institution.
- vi) **Attestation of Supporting Paper** : All supporting papers are to be attested by the Gazetted Officer.
- vii) **Rate quoted** : The rate quoted as per bidding scheduled should be inclusive of taxes and duties and any other incidental expenses.

- viii) **Name and Address of the Tenderer** : Name and Address of the Tenderer should indicate in a distinct manner.
- ix) **Mason Certificate** : The Tenderer should have at least 3(three) trained Mason and of the same should be submitted.
- x) **Signing of Tender Paper** : Tenders are required to sign and seal all pages tender paper / document issue and it will be viewed as acceptance of the terms and conditions containing therein. Any unsigned tender papers will be automatically rejected .
- xi) **Payment Terms and Conditions** :
- (a) 70% will be paid on completion of work
  - (b) 20% will be paid after successfully commissioning of the plant.
  - (c) 10% will be released after the guarantee period or on successful commission of the Plant but on furnished of BG/FDR of like amount valid for a period of 1(one) year.
- xii) **Guarantee / Warrantee period** : The Guarantee or Warrantee period of the plant is for 1(one) year from the date of commissioning of the plant.
- xiii) **Time of Completion** : Work should be completed within 180(one hundred eighty) days from the date of issue work order
- xiv) **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 seal envelope should consist of VAT Registration VAT clearance Certificate

March 2012 Professional Tax clearance certificate Scheduled Caste / Scheduled Tribe Certificate/Trading License, CCM Training Certificate, Meson certificate, Experience certificate or any other duration.

(b) Price Bid as 2<sup>nd</sup> bid in a separate seal envelope should contains EMD and price bid as per format in Tender Document.

- xv) **Target** : The contractor are required to indicate the target likely to complete within the specified date.
- xvi) **Preference** : Preference District are to be indicated and marked in Section 4 of this Document , which all District to be marked as per preference without which offer will be rejected.
- xvii) Price bid opening will be intimate separately to only those tenderer who quality the 1<sup>st</sup> bid.
- xviii) **Distribution of Plants / Works** : A distribution of work will depend upon contractor having mason, on their choice of preference. 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 TECHNEQUES 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 of gas utilization as possible.
- (iv) The site should be closed to the cattle shed to eliminate any difficulty in during collection.
- (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) The 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	60 x 60
Size of outlet tank	100 x 232.5
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,V,VI
1.	South Garo Hills District	60	
2.	West Khasi Hills District	100	
3.	Jaintia Hills District	100	
4.	Ri – Bhoi District	140	
5.	East Garo Hills District	50	
6.	West Garo Hills District	50	
<b>Total</b>		<b>500</b>	

**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 Ri – 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.



**5. 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 9 “ with socket	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.	Doublen 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**