



# ସମନ୍ୱିତ ଆଦିବାସୀ ଉନ୍ନୟନ ସଂସ୍ଥାପୁଲବାଣି

ଅନୁସୂଚିତ ଜନଜାତି ଅନୁସୂଚିତ ଜାତି ଉନ୍ନୟନ ବିଭାଗ

ଓଡ଼ିଶାସରକାର

OFFICE OF THE PROJECT ADMINISTRATOR, ITDA, PHULBANI

ST & SC Development Department Tel: (06842)254149

GOVERNMENT OF ODISHA E-Mail: [itdaphulbani@gmail.com](mailto:itdaphulbani@gmail.com)

No. 195'B' / Date. 24.01.2023

## TENDER CALL NOTICE

Sealed tenders are invited from intending firms/ companies having valid registration PAN/ GSTIN No. for supply & installation of **10 MT Solar Based Cold Storage Unit**, in the Phulbani, Khajuripada & Phiringia block under ITDA, Phulbani in Kandhamal District, with specification mentioned in the detailed tender call notice which can be downloaded from District website [www.kandhamal.nic.in](http://www.kandhamal.nic.in). The sealed tenders complete in all respects must reach the office of the Project Administrator, ITDA, Phulbani, Dist.Kandhamal, Odisha, Pin:765 001 latest by 09.02.2023 by 5.00 PM through Register/Courier/Speed post. The tender will be opened on 10.02.2023 at 11.00 AM in presence of the Technical Committee. The tender paper can be obtained in the Office of the PA, ITDA in any working day during the office hours on payment of Rs.5000/- (Rupees Five thousand) only or can be downloaded from the District Website. The bidders those who download tender paper online should pay the tender paper cost in shape of DD in favour of Project Administrator, ITDA, Phulbani payable at Phulbani.

Project Administrator,  
ITDA, Phulbani

Memo No. 195'B' / Date 24.01.2023

Copy submitted to the Collector and District Magistrate, Kandhamal, Phulbani for favour of kind information.

Project Administrator,  
ITDA, Phulbani

Memo No 195-B<sub>2</sub> Date 24.01.2023

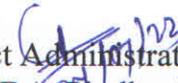
Copy forwarded to the Deputy Director Publication information and Public Relation Department, Odisha, Bhubaneswar with a request to get it published in one Odiya Daily and One National English Daily News papers at an early date preferably before dtd. 31.01.2023 for wide circulation of tender call notice.

Complimentary copy of the News papers containing the tender call notice may be sent to this office for reference and record.

  
Project Administrator,  
ITDA, Phulbani

Memo No. 195-B<sub>3</sub> Date 24.01.2023

Copy along with soft copy in PDF format to District Informatics officer, NIC, Phulbani for information with a request to host the above Tender Call Notice in the District Website www. Kandhamal.nic.in immediately for wide publicity.

  
Project Administrator,  
ITDA, Phulbani

Memo No 195-B<sub>4</sub> Date 24.01.2023

Copy submitted to Project Director, DRDA, Kandhamal for information and wide publicity.

Copy to the Sub- Collector, Phulbani/ Block Development Officer, Phulbani/ Tahasildar, Phulbani / DPC-SSA, Kandhamal/ District Welfare Officer, Kandhamal / CI. Of Schools (SSD), Phulbani/ Executive Engineer, RWS&S, Phulbani, / Executive Engineer, PHD Phulbani for information and wide publicity.

  
Project Administrator,  
ITDA, Phulbani

Memo No. 195-B<sub>5</sub> Date 24.01.2023

Copy to Office Notice Board for wide publicity.

  
Project Administrator,  
ITDA, Phulbani

1. The detailed tender call notice containing specification of items both for technical and financial bid, all other terms & condition can be downloaded from Dist. Official website [www.kandhamal.nic.in](http://www.kandhamal.nic.in) . The tender papers can also be available in the office of the ITDA, Phulbani on Payment of Rs.5000/- on any working day during the office hour i.e. 10.00 AM to 4.00 PM respectively.
2. The bidder must submit security for supply of **10 MT Solar Based Cold Storage Unit**, amount of Rs. 50,000/- (Rupees fifty thousand only) in shape of BC/BD in favour of Project Administrator, ITDA, Phulbani issued from any scheduled Bank and payable at SBI, Phulbani along with the tender papers.
3. Last date & time of receipt of tender paper: 09.02.2023 5.00 PM.
4. Date & time of opening of tender paper: 10.02.2023 11.00 A.M.
5. The authority reserves the right to accept or cancel the above tender without assigning any reason thereof.
6. Sealed tender shall be received in the office of the Project Administrator, ITDA, Phulbani by Registered post/ Courier/ Speed post only.
7. The tender should be addressed to Project Administrator, ITDA, Phulbani. The price quoted should include transportation / loading and unloading. The details of such items should be quoted.
8. The item wise approx size/weight and detail electrical/machine specification should be mentioned. This will be two bid system i.e. 1) Technical 2) Financial. The financial bids of the bidders will be considered, only after the eligibility and fulfillments of requirements of the technical bid. The financial bid must be quoted separately.

**Technical specification:**

S.No.	Item	Specification
1	Room size (In Sq.Ft.)	1920 (approx.)
2	Room volume	1400 CFT
3	Chamber capacity	10 MT
4	Room temperature	4°C to 10°C
5	Room humidity	80-90% (in built evaporator)
6	Product	Fruits & Vegetables
7	Product incoming temperature	28°C-35°C
8	Product final temp.	4°C
9	Max. product incoming/day	1MT

10	Pull down duration	24hrs
11	Insulation material	PUF panel or other better technology
12	Insulation thickness	100MM(approx.)
13	Insulation density	40+/-2kg/m <sup>3</sup>
14	Type of ref. system	Air cooled split type
15	Refrigerant gas	R-407/R404A/latest technology
16	Control panel	Micro processor based
17	Humidifiers	Min. 5 liter tank capacity sufficient to maintain RH of 90%
18	Internal lighting	Standard LED
19	Wiring & fittings	All standard ISI certified
20	Type	modular
21	Product loading/unloading	Pre-cooling of 2500 kg/day from 30 to 5°C on alternate day basis as balance cooling is provided by thermal storage or pre-cooling of 1000kg/day from 30 to 5°C on every day basis(depending upon commodity)
22	Pull down desired time	18 hours
23	No. of door opening/day	2 opening per 6hours for 30sec
24	Wall and ceiling insulation & thickness	100mm poly urethane foam cam lock Puf panel with density 40+/-2kg/m <sup>3</sup> & 0.5 MM PPGI both side with air tight step joint
25	Floor insulation & thickness	100mm poly urethane foam cam lock Puf panel with density 40+/-2kg/m <sup>3</sup> & panel with one side tarfelt
26	Door type	Semi –face mounted type swing door Size 900mmx1800mm (WXH)-1 nos. -100mm thickness
27	Door curtain	PVC curtain before the door to reduce heat infiltration on door opening
28	Ambient temperature	40°C
29	Designed solar radiation levels	4 kWh/m <sup>2</sup> –day global horizontal irradiance
30	Back up duration	18-22 hours (non –door opening & 4 kWh/ m <sup>2</sup> –day global horizontal irradiance
31	<b>POWER SOURCE</b>	
31.1	solar panels type	Photovoltaic
31.2	Size (Solar plate)	7.5KW
31.3	Solar VFD drive	As per motor drive
31.4	Solar charge controller	MPPT
31.5	Electrical batteries (Auxiliary power)	As per auxiliary load requirement for mentioned autonomy.( Auxiliary loads such as fans, lights, valve & control system). The

		reputed batteries should be used
31.6	Mounting structure	The mounting structure should be designed over the roof area of cold storage or super structure should be designed
32	<b>REFRIGERATION SYSTEM</b>	
32.1	Condensing unit	Minimum cooling capacity of 9 KW designed on -3°C evaporation & 50°C condensing temperature. Single compact unit with all standard refrigeration controls like LP/HP, filter
33	<b>Civil construction</b>	
33.1	Plat form	20x15x2ft RCC to bear load of 12000 kg capacity,
33.2	construction	It should be made up of profile sheet (Thickness 0.5mm), M. S. plate, Steel angles, Nut-Bolt, Paint, window , air ventilation and door with other essential items
33.3	Structural Member	Primary Structural members like square pipes should be made up of hot rolled plate's steel. Square Pipe (38x38 mm) and square pipe (50x25 mm), M.S. angle (25x25x3 mm). These members are convenient to assemble and disassemble.
33.4	Truss	It should be made up of Square Pipe (38x38 mm) and M.S. angle (25x25x3 mm) with other essential items.Pre-coated with epoxy black paint.
33.5	Roofing	It should be made up of Profile Sheet (Thickness 0.5mm). Coated with alloy of aluminum, zinc and silicon. These are light and reliable. Profile sheet having long life for more than 15 years.
33.6	Steel Work Finish	Primary Steel shall be cleaned to specification. One shop primer coat of Red Oxide primer /Black paint shall be applied with an average dry film thickness of 25 microns on all red steel for permanent protection.
34	DG set	Mahindra DG set for above system LOAD.

NB:1. The machine should be supplied with required stator/switch/protective devices. The details of such devices should be quoted.

2. The price quoted should include transportation / installation commissioning / testing / training for running the equipments.

TERMS AND CONDITIONS

1. The tender is under two bid system i.e. Technical Bid and Financial Bid. The intending firm must submit two separate sealed envelopes super scribing
  - a) Envelop –I: ( Technical Bid) & Envelop –II( Financial Bid) & both envelop –I & II kept (sealed) in a bigger cover in processing unit.
  - b) Envelop –II :Technical Bid- this should be in format “A” for supply, fitting and installation of **10 MT Solar Based Cold Storage Unit** will be kept inside in separate envelop.
  - c) Envelop-III Financial Bid- this should be in format “B”, price quoted for supply , fitting and installation of **Solar Based Cold Storage unit** will be kept inside the envelop including maintenance and service provides for period of three years. The firms/ Companies selected in the tender process will take the responsibility of maintenance, replacement of defective parts etc. All the aforesaid three envelops in processing unit are to be placed in the third envelope super scribed with “tender Call Notice No. dated 24.01.2023. Tender for supply, fitting and installation of Processing unit”.
2. Documents to be attached for determining of eligibility:
  - a. EMD (BID Security\_ EMD of Rs. 50,000/- ( Rupees fifty thousand) only in processing unit shape of B.C/ B.D shall be drawn in favour of Project Administrator, ITDA, Phulbani issued from any scheduled bank and payable at SBI, Phulbani (in case of un-successful bidder the same will be refunded within 15 days).
  - b. Photo copy of GSTIN clearance certificate.
  - c. Photocopy of PAN.
  - d. List showing the previously supplied and installed **10 MT Solar Based Cold Storage Unit**, if any, along with PPT (Audio and Video) with complete documentation of the same.
  - e. Statement showing annual turnover for last three financial years preceding the current financial year, should be at least Rs. 20,00,000/- (Rupees Twenty Lakhs).

- f. Documents showing annual maintenance of the system in the Organization or institution ( at least 05 Organization per annum).
  - g. Documents showing quality certificate of the products.
3. Technical Specifications ( to be kept inside the Envelope- II)
- a. Technical specification in format “A” to be filled in and submitted.
  - b. All commercial terms and conditions should be specified.
  - c. Period of warranty.
  - d. Others.
4. Procedure for selection of the bidder
- a. At the first instance, envelop- I shall be opened and the documents pertaining to the eligibility criteria of the bidder shall be verified and eligibility to participate in the process will be determined.
  - b. Thereafter, Envelop- II containing the technical bid ( relating to all eligible bidders after opening the Envelop-I) shall be opened to examine qualitative aspects of the materials intended for procurement.
  - c. Therefore, Envelop –III containing the financial bids (to be submitted in the prescribed format) in respect of the bidders who have qualified in the technical bid shall be opened and finalized.
5. Sealed tender documents addressed to the Project Administrator, ITDA, Phulbani should be submitted by Registered Post / Courier/ Speed Post only. within the stipulated period from 24.01.2023 to 09.02.2023 up to 5 PM .If this day is declared as holiday by the Govt., then the next working day shall be the last date for receipt of tender. Tender received after the specified date and time shall not be entertained.
- a. Opening of tenders: The tender will be opened on 10.02.2023 at 11.00 AM in the office chamber of Project Administrator, ITDA, Phulbani.
  - b. Validity of Rate Approved : The rate shall remain valid during the period of one year commencing from the date of finalization of the tender which will facilitate procurement of further systems during the said period.

- c. Bid Security Deposits: Rs. 50,000/- (Rupees fifty thousand) only processing unit shall be retained in this office for a period of one years from the date of first supply. In case of failure to supply, fixing, installation and maintenance of the system in time or for any deficiency the same shall be forfeited.
  - d. Payment on supply and installation : payment in respect of system supply and installation is to be made by e- transfer for which the selected firm should submit the account number, name of the bank and IFSC code along with bill duly signed by him.
  - e. Acceptance and Rejection of Tender: The Collector-cum-DM, Kandhamal reserves the right to accept or reject any or all the tender at any stage and may also increase or decrease the quantity without assigning any reason thereof.
  - f. The detail tender call notice containing specification of items both for technical and financial bid can be downloaded from Dist. Official Website [www.kandhamal.nic.in](http://www.kandhamal.nic.in).
6. The bidder has to sign on all pages of the tender documents as having accepted all the terms and conditions of the tender. Tenders, which are not signed on all pages, will be summarily rejected.
  7. The rate must be quoted on comprehensive basis (cost inclusive of all duties, cess and taxes (GST) including transportation charges to the destination which covers all over Kandhamal District .
  8. Any deviation will be considered as breach of contract and will be dealt accordingly.
  9. Application received without complete documents/ information shall not be considered.
  10. The Collector-cum-DM has every right to finalize the tender after negotiations with the lowest bidder regarding prices and other conditions.
  11. The defective material/ work if found is to be replaced/ re-done by the supplier free of cost.
  12. The supplier has to undertake all repairs, replacements and maintenance will be done by the supplier on payment of cost.
  13. The work in all respect should be complete within sixty days after receiving supply order.
  14. **The 10 MT Solar Based Cold Storage Unit** have to be delivered and commissioned at Phulbani town of Phulbani block of Kandhamal district.
  15. A photograph shall be taken at the time of installation and trial run and shall be enclosed to the invoice for arranging payment.

16. The bidder should avoid over writing and corrections. However, if such correction and over writing become inescapable, these are to properly and legibly corrected / over writing should be properly attested by the Bidder at every correction.
17. Representative of Bidder desirous to attend the tender opening, can do so, on production of a proper letter of authority from the respective Bidder, failing which they may not be allowed to attend the tender opening. Authorized representative of those bidders who have submitted the tender documents alone shall allowed attending the tender opening.
18. In case of any dispute, the decision of tender committee shall be final.
19. Any dispute or any matter arising out of contract or incidental there to under this enquiry shall be subject to jurisdiction of a competent court of law in Phulbani alone and not in any other place.
20. The PA,ITDA, Phulbani is not responsible for deduction and payment of taxes to Government. It is responsibility of the supplier to pay whatever taxes or cess to the appropriate head of account.
21. All the bidders participating in the tender must give a presentation of the 10 MT Solar Based Cold Storage Unit supplemented by Audio/ Video and Graphics for better understanding and evaluation of the Technical Committee.

  
Project Administrator,  
ITDA, Phulbani

Format-A  
(Technical BID)

(Technical specification for 10 MT per day based 10 MT Solar Based Cold Storage  
Unit. To be kept in Envelop-I

S.No.	Item	Specification	Whether the proposed system is in tune with the specification (Indicate against each items Yes/No
1	Room size (In Sq.Ft.)	1920 (approx.)	
2	Room volume	1400 CFT	
3	Chamber capacity	10 MT	
4	Room temperature	4°C to 10°C	
5	Room humidity	80-90% (in built evaporator)	
6	Product	Fruits & Vegetables	
7	Product incoming temperature	28°C-35°C	
8	Product final temp.	4°C	
9	Max. product incoming/day	1MT	
10	Pull down duration	24hrs	
11	Insulation material	PUF panel or other better technology	
12	Insulation thickness	100MM(approx.)	
13	Insulation density	40+/-2kg/m <sup>3</sup>	
14	Type of ref. system	Air cooled split type	
15	Refrigerant gas	R-407/R404A/latest technology	
16	Control panel	Micro processor based	
17	Humidifiers	Min. 5 liter tank capacity sufficient to maintain RH of 90%	
18	Internal lighting	Standard LED	
19	Wiring & fittings	All standard ISI certified	
20	Type	modular	
21	Product loading/unloading	Pre-cooling of 2500 kg/day from 30 to 5°C on alternate day basis as balance cooling is provided by thermal storage or pre-cooling of 1000kg/day from 30 to 5°C on every day basis(depending upon commodity)	
22	Pull down desired	18 hours	

	time		
23	No. of door opening/day	2 opening per 6hours for 30sec	
24	Wall and ceiling insulation & thickness	100mm poly urethane foam cam lock Puf panel with density 40+/- 2kg/m <sup>3</sup> & 0.5 MM PPGI both side with air tight step joint	
25	Floor insulation & thickness	100mm poly urethane foam cam lock Puf panel with density 40+/- 2kg/m <sup>3</sup> & panel with one side tarfelt	
26	Door type	Semi -face mounted type swing door Size 900mmx1800mm (WXH)-1 nos. -100mm thickness	
27	Door curtain	PVC curtain before the door to reduce heat infiltration on door opening	
28	Ambient temperature	40°C	
29	Designed solar radiation levels	4 kWh/m <sup>2</sup> -day global horizontal irradiance	
30	Back up duration	18-22 hours (non -door opening & 4 kWh/ m <sup>2</sup> -day global horizontal irradiance	
31	<b>POWER SOURCE</b>		
31.1	solar panels type	Photovoltaic	
31.2	Size (Solar plate)	7.5KW	
31.3	Solar VFD drive	As per motor drive	
31.4	Solar charge controller	MPPT	
31.5	Electrical batteries (Auxiliary power)	As per auxiliary load requirement for mentioned autonomy.( Auxiliary loads such as fans, lights, valve & control system). The reputed batteries should be used	
31.6	Mounting structure	The mounting structure should be designed over the roof area of cold storage or super structure should be designed	
32	<b>REFRIGERATION SYSTEM</b>		
32.1	Condensing unit	Minimum cooling capacity of 9 KW designed on -3°C evaporation & 50°C condensing temperature. Single compact unit with all standard refrigeration controls like LP/HP, filer	

33	<b>Civil construction</b>		
33.1	<b>Platform</b>	20x15x2ft RCC to bear load of 20000 kg capacity,	
33.2	<b>construction</b>	It should be made up of profile sheet (Thickness 0.5mm), M. S. plate, Steel angles, Nut-Bolt, Paint, window , air ventilation and door with other essential items	
33.3	<b>Structural Member</b>	Primary Structural members like square pipes should be made up of hot rolled plate's steel. Square Pipe (38x38 mm) and square pipe (50x25 mm), M.S. angle (25x25x3 mm). These members are convenient to assemble and disassemble.	
33.4	<b>Truss</b>	It should be made up of Square Pipe (38x38 mm) and M.S. angle (25x25x3 mm) with other essential items. Pre-coated with epoxy black paint.	
33.5	<b>Roofing</b>	It should be made up of Profile Sheet (Thickness 0.5mm). Coated with alloy of aluminum, zinc and silicon. These are light and reliable. Profile sheet having long life for more than 15 years.	
33.6	<b>Steel Work Finish</b>	Primary Steel shall be cleaned to specification. One shop primer coat of Red Oxide primer /Black paint shall be applied with an average dry film thickness of 25 microns on all red steel for permanent protection.	
34	<b>DGset</b>	Mahindra DG set for above system LOAD.	

(Signature of the authorized personnel of bidder)

Format- B  
Financial BID

(Financial specification to be kept inside Envelop-III)

Sl. No.	Description of the Item	Rate in Rupees( cost for supply of 01 (one) complete system including transportation , installation , commissioning at the site & all taxes
	One <b>10 MT Solar Based Cold Storage Unit</b> (as per the specification contained in the technical specification )	Rs.
	Rupees in Words	

(Signature of the authorized personnel of Bidder)

(Format -C)

Consolidated 10 MT Solar Based Cold Storage Unit (Beyond 01 years normal warranty)

Including supply of all accessories

(Inside financial bid envelope)

1. Maximum frequency of periodic maintenance personnel checking and maintaining the unit – Every 3 months.
2. Maximum response time for break down maintenance – 7 days.
3. AMC charges per Annum ( equally proportionately) shall be paid on production of periodic maintenance certificate from the institution and timely response for break down calls.
4. Quoted charges per Annum (in Rs.)

Place  
Date

Authorized Signatory of the firms/ company

Name:-

Designation:-

Seal:-

(Format – D)

Check List

DOCUMENTS REQUIRED FOR QUALIFYING BID

I do hereby declare that I agree to all above terms and conditions of the tender scheduled and participate in the tender.

Sl. No.	Documents	Yes/ No.
1	Firm Registration	
2	GS TIN number	
3	Purchase order copies	
4	Turnover statement certified by auditor/ CA	
5	IT returns copy	
6	Declaration	
7	EMD (Rs.50,000/-) BD/ BC details	
8	Declaration regarding validity ( of rate for at least one year) format enclosed	
9	Declaration regarding warranty	
10	Performance report of the 30 MT Solar Cold Storage Unit	
11	10 MT Solar Based Cold Storage Unit photograph	
12	AMC rate quote paper	
13	Rs. 5000/- paper cost	
14	List of Organization showing supply and installation of 10 MT Solar Cold Storage Unit previously	
15	Documents showing annual maintenance of the system in the Organization	
16	Copy of PAN	
17	Copy of quality certificate of the product.	

(Signature of the bidder)

Dated: with Officers seal

(Format -E)

DECLARATION OF VALIDITY OF APPROVED RATE

I on behalf of firm/ company declared that the validity of the approved rate of Multipurpose Processing unit finalized by the tender committee vide tender call notification No. \_\_\_\_\_ dtd. \_\_\_\_\_ will be valid for a period of at least \_\_\_\_\_ years within this period no additional charges will be claimed by the firms/ company. I abide by the terms & conditions of the tender committee during the validity period as mentioned above.

Place  
Date

Authorized Signatory of the firms/ company

Name:-

Designation:-

Seal:-