

**OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC HEALTH
OFFICER, MALKANGIRI**



Bid Notice

Tender Document for the following works:-

1. Rooftop Solar Panel for AWC and Sub-Centres i.e., Installation of Roof Power plant in 6 sub-centres (5 KW each) and 30 numbers of AWC (3 KW each) with Annual Maintenance of 5 years along with technical training of candidate to look after the Solar Panel in the District of Malkangiri.

Bidding Document : Not transferable

DATE OF COMMENCEMENT OF THE BID : Dt.23.09.2022 at 11.00AM
LAST DATE / TIME FOR BID : Dt.25.10.2022 up to 2:00 PM
LAST DATE / TIME FOR SUBMISSION OF BID : Dt.25.10.2022 up to 2:30 PM
DATE OF OPENING OF TECHNICAL BID DOCUMENT : Dt.26.10.2022 at 3.00 PM

DATE & TIME OF OPENING OF THE FINANCIAL: : Dt.26.10.2022 at 4:00 PM
BID DOCUMENT

PLACE OF OPENING OF BID : OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC
HEALTH OFFICER, MALKANGIRI.

AND

ADDRESS FOR COMMUNICATION

AND

RECEIPT OF BID DOCUMENT

OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER
, MALKANGIRI.

Pin No.-764048

Fax No-06861-231543

Phone No.-06861-231543

Mail id -cdmomkg@gmail.com

TENDER CALL NOTICE

The Chief District Medical & Public Health Officer, Malkangiri invites tender from the intending firms / Authorised dealers / Agencies for execution of works as mentioned below.

1. Rooftop Solar Panel for AWC and Sub-Centres i.e., Installation of Roof Power plant in 6 sub-centres (5 KW each) and 30 numbers of AWC (3 KW each) with Annual Maintenance of 5 years along with technical training of candidate to look after the Solar Panel.

⁸⁵⁹¹
Tender Notice No. – CDM & PHO(MLK)-03/2022-23

Date: 23.09.2022

TENDER CALL NOTICE

The Chief District Medical & Public Health Officer, Malkangiri invites tender from intending firms / Authorised dealers / Agencies for the work i.e., "Rooftop Solar Panel for AWC and Sub-Centers i.e., Installation of Roof Power plant in 6 sub-centers (5 KW each) and 30 numbers of AWC (3 KW each) with Annual Maintenance of 5 years along with technical training of candidate to look after the Solar Panel."

Tender details can be downloaded from the Malkangiri District website www.malkangiri.nic.in. Authority reserves the right to accept or reject the tender without assigning any reason thereof or the tendering process may be cancelled in Toto. Any corrigendum/ changes/ modifications will appear in, Malkangiri District website www.malkangiri.nic.in only.


Chief District Medical & Public Health Officer,
Malkangiri

Memo. No. 8592

Date. 21/09/2022

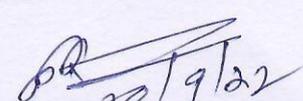
Copy to Editor, for information with a request to publish the advertisement for one day at the Government approved rate of I & P.R. Deptt.(O).


Chief District Medical & Public Health Officer,
Malkangiri

Memo. No. 8593

Date. 21/09/2022

Copy to the D.I.O, NIC, Malkangiri for information with a request to upload the same in the District Website for wide publicity.


Chief District Medical & Public Health Officer,
Malkangiri

SECTION - I

**INVITATION
FOR
BIDS (IFB)**



DISTRICT MISSION DIRECTORATE
DISTRICT PROGRAMME MANAGEMENT SUPPORT UNIT
NATIONAL HEALTH MISSION, MALKANGIRI
Office of the Chief District Medical & Public Health Officer
Department of Health & Family Welfare, Govt. of Odisha



Mail cdmomkg@gmail.com

Phone/Fax: 06861-231543

No. 8591 /

Dated: 21 / 09 /22

SECTION - I : INVITATION FOR BIDS (IFB)

Sealed Bids in two separate covers (Technical bid and Financial bid) are invited by the **Chief District Medical & Public Health Officer, Malkangiri for execution of work** i.e. "Rooftop Solar Panel for AWC and Sub-Centers i.e., Installation of Roof Power plant in 6 sub-centres (5 KW each) and 30 numbers of AWC (3 KW each) with Annual Maintenance of 5 years along with technical training of candidate to look after the Solar Panel in the District of Malkangiri".

The Bidders to download the Bid Document directly from the WEBSITE available at www.malkangiri.nic.in and the Bid cost as mentioned in TCN by way of **separate Demand Draft** drawn in favour of **Chief District Medical & Public Health Officer, Malkangiri** should be enclosed along with the Technical Bid. The Bidders should specifically super-scribe, "**Downloaded from the WEBSITE**" and must be mentioned "**Tender Call Notice Number and Name of the Work**" on the top left corner of the outer envelope containing Technical Bid and Financial Bid separately.

In case of any bid amendment and clarification, responsibility lies with the bidders to collect the same from the website before last date of bid document and the **Chief District Medical & Public Health Officer, Malkangiri** shall have no responsibility for any delay/ omission on part of the bidders.

Price of bidding document:

Rs. 10,000.00 (Non-refundable)

Place of opening of bids:

**Office of the Chief District Medical & Public Health Officer,
Malkangiri**

Address for communication:

Phone No.-06861-231543

Sd/-
**Office of the Chief District Medical & Public Health Officer,
Malkangiri.
Pin-764048**

SECTION-II

GENERAL TERMS

&

CONDITIONS

TENDER CALL NOTICE

1.0 Chief District Medical & Public Health Officer, Malkangiri invites Tenders from intending firms / Authorised dealers / Agencies, either in individual capacity or as part of a joint venture / consortium for carrying out various Solar Pannel works in the jurisdiction of Odisha. The bidder must fulfill all the qualification requirements as specified in clause 3.0 stated below.

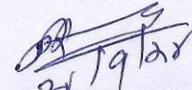
2.0 Detail Technical Specification :

Technical Specifications/ scope of work of the following works are given below:-

Technical Specification for the work "Rooftop Solar Panel for AWC and Sub-Centres i.e., Installation of Roof Power plant in 6 sub-centres (5 KW each) and 30 numbers of AWC (3 KW each) with Annual Maintenance of 5 years along with technical training of candidate to look after the Solar Panel in the District of Malkangiri".

Solar PCU Specification 3 . 7 5 KVA

Range Name(Solar)	PCU
VA Rating	3.75 kVA
Capacity(kW)	<= 3kw
Output Wave form	Sine Wave
Technology(Solar)	With Battery
Maximum Power Voltage Vmp (V)	120V-210V
Max. supported panel power(Wp)	6000Wp
Nominal battery bank voltage	96V
Input Voltage Range(Voc)	160V-240V
Type of Charger	MPPT
Input Supply Phases	Single Phase
Nominal Voltage & Voltage range	230VAC(185V-265V)
Nominal Frequency & Range	50Hz(±3Hz)
Battery recharge current range from Grid Side(A)	0-30
Battery recharge current range from Array Side(A)	0-60
Charging Stages	Float ,Bulk, Boost
Switching Element	IGBT


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Control	32BitDSPcontrolled
Nominal Output VAC	230V±1%,SinglePhase
Output waveform	Pure Sine Wave
Nominal Frequency	50Hz(±0.5Hz)
Power Factor	0.8lagto0.8lead
Nominal Output Current(A)	26

Overload at nominal output voltage	110%for10Minutes,200%for 5Secs
Protection	Under/Over voltage protection for Input, Output, Battery & Array; Reverse polarity protection for Array & Battery; Protection for OutputOverload,ShortcircuitandOverTemperature;MCB&SurgeprotectionatGrid/DGInput,Battery,Array Path and PCUO/P
IP Protection Level	IP-21
Certifications	BIS certified as per IS/IEC standards

SolarBattery150AhSpecification Specifications

More Information
Application Area
Capacity Warranty
Height up to terminal (±3cm)
Length(±3cm)
Breadth (±3cm)

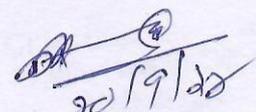
Filled weight (±5%Kg)

ElectrolyteVolume±5%Ltr

- 150AhRatedCapacity@C10,
- Warranty-60*Months

12V

- Tubular plate Technology-Next generation tall tubular battery with better charge acceptance and long Backup
- Long cycles(1500@80%DOD,5000@20%DOD),ensuring design life
- Longerlifewithoutdischargewithself-dischargerateof3%permonthSTC.
- Efficient battery with Higher AH efficiency>90%,andWHefficiency>80%
- Lowmaintenancewithatoppingfrequencyof8-10months,lowmaintenancewithlevelindicators
- Manufactured with high corrosion resistant and robust spine technology using theadvancedandstate-of-the-artHADIhighpressure(at100bar)spinecasting machines, which ensure as upper fine grain structure, for strength, long life and highest reliability
- Designedwiththickerpositiveplatesand20%moreelectrolytetowithstandpoweroutage


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Chief Dist. Medical Officer
Public Health Officer
Malkangiri

**SOLAR PANEL SPECIFICATION 445WP
ELECTRICAL PARAMETERS**

	MONOPERCHALFCUT
Cell Type	144
No. of Cells	445
Peak Power P Max (Wp)	24
Rated Module Voltage(V)	40.90
Maximum Power Voltage Vm Pg/}	10.70
Maximum Power Current Imp(A)	48.9
Open Circuit Voltage Voc(V)	11.32
Short Circuit Current Isc(A)	20.54
Module Efficiency (%)	1500V
Maximum System Voltage(V}	20A
Maximum Series Fuse Rating	

MECHANICAL DATA

IP Rating	IP67
Frame	Silver Anodized aluminium alloy
Glass	3.2mm thick
Cell Encapsulant	EVA(Ethylene Vinyl Acetate)
Back Sheet	Composite Film
Maximum Surface Load Capacity	5400Pa (Pascals)
Application Class	Class A (Safety Class II)

OPERATING CONDITIONS

Operating Temperature	-40°C to +85°C
Temp coefficient of Open Circuit Voltage	-0.3%/K
Temp coefficient of Short Circuit Current	+0.06%/K
Temp coefficient of Power	-0.35%/K

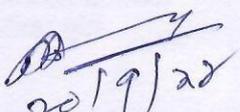
WARRANTY AND CERTIFICATION

Warranty	12 Years
Performance Warranty**	25 Years
Approval and Certificates	BIS certified as per IS/IEC standards

Solar PCU Specification 7.5KVA

[Signature]
20/9/20
**Chief Dist. Medical &
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Range Name(Solar)	PCU
VA Rating	7.5 kVA
Capacity(kW)	<=5kw
Output Wave form	Sine Wave
Technology(Solar)	With Battery
Maximum Power Voltage Vmp(V)	120V-210V
Max. supported panel power (Wp)	6000Wp
Nominal battery bank voltage	96V
Input Voltage Range(Voc)	160V-240V
Type of Charger	MPPT
Input Supply Phases	Single Phase
Nominal Voltage & Voltage range	230VAC(185V-265V)
Nominal Frequency & Range	50Hz(\pm 3Hz)
Battery recharge current range from Grid Side(A)	0-30
Battery recharge current range from Array Side(A)	0-60
Charging Stages	Float, Bulk, Boost
Switching Element	IGBT
Control	32BitDSPcontrolled
Nominal Output VAC	230V \pm 1%, SinglePhase
Output waveform	Pure Sine Wave
Nominal Frequency	50Hz(\pm 0.5Hz)
Power Factor	0.8lagto0.8lead
Nominal Output Current(A)	26


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Over load at nominal output voltage	110%for10Minutes,200%for5Secs
Protection	Under/Over voltage protection for Input, Output, Battery & Array; Reverse polarity protection for Array & Battery; Protection for OutputOverload, ShortcircuitandOverTemperature; MCB&Surgepro tectionatGrid/DGInput, Battery, Array Path and PCUO/P
IP Protection Level	IP-21
Certifications	BIS certified as per IS/IEC standards

Solar Battery150AhSpecification

Specifications

More

Information

Application Area

Capacity

Warranty

Height up to terminal

(±3cm) Length (±3cm)

Breadth (±3cm)

Filled weight (±5%Kg)

Commercial Applications ,Homes and Small Shops

150Ah

60months

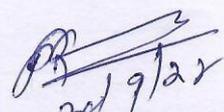
44.0CM

50.2CM

19.1CM

60kg

20.6ltr


20/9/22
**Chief Dist. Medical &
Public Health Officer
Malkangiri**

Electrolyte Volume $\pm 5\%$ Ltr

- 150Ah Rated Capacity @ C10,
- Warranty-60* Months

12V

- Tubular plate Technology- Next generation tall tubular battery with better charge acceptance and long Backup
- Long cycles (1500 @ 80% DOD, 5000 @ 20% DOD), ensuring design life
- Longer life without discharge with self-discharge rate of 3% per month STC.
- Efficient battery with Higher AH efficiency > 90%, and WH efficiency > 80%
- Low maintenance with a topping frequency of 8-10 months, low maintenance with level indicators
- Manufactured with high corrosion resistant and robust spine technology using the advanced and state-of-the-art HAD high pressure (at 100 bar) spine casting machines, which ensure a super fine grain structure, for strength, long life and highest reliability
- Designed with thicker positive plates and 20% more electrolyte to withstand power outage

SOLAR PANEL SPECIFICATION 445WP

ELECTRICAL PARAMETERS

Cell Type	MONO PER HALF CUT
No. of Cells	144
Peak Power P Max (Wp)	445
Rated Module Voltage (V)	24
Maximum Power Voltage Vm Pg/}	40.90
Maximum Power Current Imp (A)	10.70
Open Circuit Voltage Voc (V)	48.9
Short Circuit Current Isc (A)	11.32
Module Efficiency (%)	20.54
Maximum System Voltage (V)	1500V
Maximum Series Fuse Rating	20A

MECHANICAL DATA

IP Rating	IP67
Frame	Silver Anodized aluminium alloy
Glass	3.2mm thick
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)

Back Sheet	Composit Film
Maximum Surface Load Capacity	5400Pa (Pascals)
Application Class	Class A(Safety Class II)

OPERATINGCONDITIONS

Operating Temperature	-40°Cto+85°C
Tempco efficient of Open Circuit Voltage	-0.3%/K
Tempco efficient of Short Circuit Current	+0.06%/K
Tempco efficient of Power	-0.35%/K

WARRANTYANDCERTIFICATION

Warranty"	12Yea rs
Performance Warranty**	25Yea rs
Approvals and Certificates	BIS certified as per IS/IEC standards

Note:-

Please note that in both systems requires three separate earthlings for the followings:-

1. Lighting Arrester
2. Structure & AJB
3. PCU

In 3KW we can install Max 9 panel of 330w with 3panel in series and Max 6 panel of 445w with 2 panel in series.
In 5KW we can install Max 20 panel of 330w with 5panel in series and Max 12 panel of 445w with 4 panel in series.

Any change in above should be approved from this office prior to installation.

In 3kw since it is 48V machine we need four batteries in series and in 5kw since it is 96v machine we need 8 batteries in series.

3.0 Bidders to be considered as eligible (to bid) should meet the following qualifications;

Eligibility criteria for tender work:-

- a. Bidder may quote the rates of each work separately.
 - b. The bidder should submit their Work experience or work order in solar nature of Work.
 - c. The audited annual turnover (ATO) to be submitted. (Minimum turnover of Rs 1 Crore per year i.e since 2017-18.
 - d. In addition to above the bidders should submit the following documents as qualifying terms.
 - i. Self-Attested copy Labour License (if not available should submit an undertaking to submit the labour license after receipt of work order).
 - ii. Self-Attested copy of EPF.
 - iii. Self-Attested copy PAN & GSTIN No.
 - e. All the tender documents duly signed & sealed in each page as a token of unconditional acceptance of terms of tender.
 - f. Experience:- Experience certificate to be submitted for installation of Solar Pannel at least 250 Kw capacity along with the Technical bid.
- Chief District Medical & Public Health Officer, Malkangiri, reserves the right to waive minor deviation, if they do not materially affect the capacity of the bidder to perform the contract.

4.0 SOURCE OF FUNDS:

Chief District Medical & Public Health Officer, Malkangiri is the funding Agency for "Rooftop Solar Panel for AWC and Sub-Centres i.e., Installation of Roof Power plant in 6 sub-centres (5 KW each) and 30 numbers of AWC (3 KW each) with Annual Maintenance of 5 years along with technical training of candidate to look after the Solar Panel in the District of Malkangiri".

5.0 DISCLAIMER:

- 5.1 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.
- 5.2 This document and the information contained herein are **Strictly Confidential** and are for use of only the person (s) to whom it is issued/ downloaded from the website. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors).
- 5.3 The authority reserves the rights to cancel the engagement order on violation of any terms and conditions so prescribed without any reason thereof.

6 COST OF BIDDING:

- 6.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid and Chief District Medical & Public Health Officer, Malkangiri will in no case be responsible or liable for those costs.
- 6.2 The Bidder is expected to examine the Bidding Documents, including all Instructions, Forms, Terms and Specifications. Failure to furnish all information required in the Bidding documents or

submission of a Bid not substantially responsive to the Bidding Documents in every respect will / may result in the rejection of the Bid.

7.0 AMENDMENT OF BIDDING DOCUMENTS:

- 7.1 At any time prior to the deadline for submission of Bids, the **Owner** may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by way of issuing an corrigendum/addendum.
- 7.2 The corrigendum/ Addendum shall be part of the Bidding Documents, and it will be notified on the website only. Interested bidders may visit the website www.malkangiri.nic.in for detail enquiry.
- 7.3 In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing of their Bids, the **Owner** may, at its discretion, extend the deadline for the submission of Bids.

8.0 MODE OF SUBMISSION OF BID:-

The tender for the work is to be dropped in the Registered Post / Speed Post / Dropping in the Tender Box kept in the Office of CDM & PHO, Malkangiri by the schedule date and time.

9.0

MODIFICATION AND WITHDRAWAL OF BIDS:-

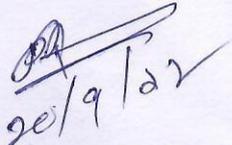
Any corrigendum/ changes/ modifications will appear in Malkangiri District website www.malkangiri.nic.in only. **Any corrigendum/addendum** will be uploaded in Malkangiri District website on or before Dt. **18.10.2022**. Similarly interested bidder can raise **query to clear doubt** regarding the tender and requested to contact **Sri Chinmaya Mohapatra** **Mob No. 9439989423**

10.0 BID PRICE:

- 10.1 Bidders have to quote for the entire quantum of work covered under this specification. The total Bid Price shall also cover all the Contractor's obligations mentioned in or reasonably to be inferred from the Bidding Documents in respect of Supply, erection, testing, inspection, Transportation to site/stores, all in accordance with the requirement of Tender Documents. **The Bidder shall quote appropriate Price as per financial bid format stating the Taxable value for each item including Packing & forwarding, freight & insurance, loading & unloading charges, GST. Price evaluation shall be carried out on the basis of total value of work including GST. If there is any change in GST rates then it will be paid by the executing agency in future without creating any dispute.**
- 10.2 In case there is any increase or decrease in the Scope as compared to those mentioned in the IFB, the Contract Price shall be subject to increase/decrease proportionately on pro-rata basis.
- 10.3 Prices quoted by the Bidder shall be **"Firm"** and not subject to any price adjustment during the performance of the Contract. **A Bid submitted with variable Price or an adjustable price clause**

shall be treated as non-responsive and rejected out rightly.

- 11.0 **VALIDITY.**
The offer shall be valid for a period not less than **90 days** from the date of bid opening (Technical).
- 12.0 **ALTERNATIVE BIDS:**
Bidders shall submit Bids, which comply with the Tender Documents. **Alternative bids shall not be considered for evaluation.**
- 13.0 **PAYING OFFICER:**
Chief District Medical & Public Health Officer, Malkangiri the paying officer for the project.
- 14.0 **Warranty:**
The Warranty period of the project for the said Solar work is 5 years.
- 15.0 **Completion Period:**
The contractor shall have to complete the work within 90 days from the date of awarding of the work order and owner reserves the right to re-schedule the completion period, if required.
- 16.0 **Inspection:**
The Chief District Medical & Public Health Officer, Malkangiri reserves the rights to inspect the complete projects through any agency before release of work bill.
- 17.0 **Financial Bid Format**
Financial Bid formats are given below.


20/9/22
Chief Dist. Medical &
Public Health Officer
Malkangiri

Financial Bid for the work "Rooftop Solar Panel for AWC and Sub-Centres i.e., Installation of Roof Power plant in 6 sub-Centres (5 KW each) and 30 numbers of AWC (3 KW each) with Annual Maintenance of 5 years along with technical training of candidate to look after the Solar Panel".

Estimate for Hybrid Solar Roof top Plant		
Sl. No.	Details	3 KW/ 48 v MPPT
1	Installation of Roof top Off Grid 3 KW Power plant with Solar Module , Hybrid inverter 3.75 KVA,C 10 Battery along with Galvanized structure((Make-EXIDE/LUMINOUS/MICROTECH/ UTL)	
2	Cables	
3	Earthing Kit	
4	Earthing Cable/Strip	
5	Lighting arrestor	
6	Cost Solar Power plant, Wiring of intermediate Panel with Transportation Charges	
7	Total Cost	
8	GST @ %	
9	Total Cost (Including GST)	

In Words:- (Rupees _____)

- * Above quoted price should be inclusive of all taxes and duties, and other statutory dues charged by Government from time to time. Price should be quoted in both formats i.e. in numeric and in word.
- * Warranty period 5 years to be included in the quoted price.
- * Any extra charges on GST will be paid by the executing Agency.

Seal and Signature of Bidder

[Signature]
20/9/22
Chief Dist. Medical Officer
Public Health Officer
Malkangiri

Estimate for Hybrid Solar Roof top Plant		
Sl. No.	Details	5 KW/ 96 v MPPT
1	Installation of Roof top Off Grid 5 KW Power plant with Solar Module , Hybrid inverter 7.5 KVA,C 10 Battery along with Galvanized structure((Make-EXIDE/LUMINOUS/MICROTECH/ UTL)	
2	Cables	
3	Earthing Kit	
4	Earthing Cable/Strip	
5	Lighting arrestor	
6	Cost Solar Power plant, Wiring of intermediate Panel with Transportation Charges	
7	Total Cost	
8	GST @ %	
9	Total Cost (Including GST)	

In Words:- (Rupees _____)

* Above quoted price should be inclusive of all taxes and duties and other statutory dues charged by Government from time to time. Price should be quoted in both formats i.e. in numeric and in word.

* Warranty period 5 years to be included in the quoted price.

* Any extra charges on GST will be paid by the executing Agency.

Seal and Signature of Bidder


20/9/21
Chief Dist. Medical &
Public Health Officer
Malkangiri