

OFFICE OF THE GRAM PANCHAYAT

NOKARIGRAM PANCHAYAT

NOKARI, RANAGHAT, NADIA,

E-mail Id: - nokarigp@gmail.com PHONE - 9064652886

Expression of interest QUALIFICATION-CUM NOTICE OF EXPRESSION OF INTEREST (two cover system)

Notice of Expression of interest.- 9(e)/15th F.C/UNTIED/NOKGP/21-22

Memo No: - 326/NOK/2021

Dated: 17/12/2021

Expression of interest is invited in sealed cover from bonafied experienced Reputed Agencies, Companies Capable of design, Engineering Supply, Executing for installation, Testing and commissioning of **6KWP OF-GRID CUM HYGRID SOLAR POWER PLANT**. Notice of Expression of interest will be received through Notice of Expression of interest of P & R.D Govt of west Bengal Website <https://wbtenders.gov.in/nicgep/app>

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|---|--|
| 1. Name of work | : As per Annexure. |
| 2. Description of items of works | : As per Annexure. |
| 3. Time of completion of work | : As per Annexure. |
| 4. Contractors eligible to Submit Notice of | : Resourceful contractors having
Credential in such type of work as per
Annexure of work value in a single work
awarded not earlier than 2019-2020. |

Terms and Conditions EOI:-

i) Electrical drawing and single line diagram of Solar Power Generating system and plant related E.I. work is required.

Documents to be submitted along with EOI:

i) Notice of EOI may be obtained against application only.

ii) EOI to be submitted along with self attested copies GST registration certificate, IT returns of recent year, PAN card, credentials having similar nature works and other relevant documents.

iii) Original documents are to be shown in original to be Department as and when desired.

5. Price per copy of set of Notice of Expression of interest : As per Annexure.
6. Date and time for downloading of Notice of Expression of interest documents. : 17/12/2021 at 5.00pm to 28/12/2021 up to 12.00PM. (as per Server clock)
7. **Cost of Notice of Expression of interest documents:** By Bank NEFT/RTGS should be drawn in favour of Prodhani Nokari Gram Panchayat, Nadia and NEFT/RTGS should be drawn in favour of "BANK OF INDIA" NOKARI BRANCH Account No. 422510100000838, IFC Code BKID0004225 the scanned copy of the must be uploaded at the time of online bidding as original draft to be deposited at NOKARI GRAM PANCHAYAT office at the time of Opening of Technical Bid and as per clause-32 & 34.
8. Last date and time for submission of Notice of Expression of interest : 28/12/2021 up to 12.00PM (as per Server clock)
9. A Time & Date of opening - Technical bids : SL No - 1 , Date-30/12/2021

After 12.00PM (as per server clock)

B Time & Date of hard copy submission: SL No -1, Date-29/12/2021

After 12.00 PM to 2.00 PM

10. **Earnest Money:** Fixed of Rs.13000.00 (i.e. As per Annexure) by NEFT/RTGS should be drawn in favour of "Prodhan Nokari Gram Panchayat", Nadia and NEFT/RTGS should be drawn in favour of "BANK OF INDIA" NOKARI BRANCH Account No. 422510100000838, IFC Code BKID0004225 the scanned copy of the draft must be uploaded at the time of online bidding as well as original draft to be deposited at the time of Financial Bid opening (or clause - 33 and 34).
11. **Validity of the Notice of Expression of interest:** The offer will remain valid for acceptance for 180 days from the date receipt of Notice of Expression of interest.
12. **Building Schedule of rates for items of work:** - Schedule of Rates of P.W (W.B) Schedule of rates with up to date addenda & Corrigenda operative from and schedule of rates PW (Roads) M.S/ T.S and Cement may be issued departmentally as per availability.
13. The Notice of Expression of interest document and other relevant particulars (if any) may be seen by the intending Notice of Expression of interests during office hours in the office of the NOKARI GRAM PANCHAYAT as well as from the website <http://wbNoticeofExpressionofinterests.gov.in>
14. Throughout this document the terms and "Notice of Expression of interest" and their derivatives (bidder/Notice of Expression of interester/Notice of Expression of interest/ bidding/ Notice of Expression of interesting etc.) are synonymous.
15. Conditional Notice of Expression of interest will be liable for rejection.
16. Time/ Cost over - run and consequent cost escalation for any material, Labour, etc will not be allowed.
17. No mobilization advance/secured advance will be allowed.
18. In case of inadvertent typographical mistake found in the specific price schedule of rates. The same will be treated to be so corrected as to confirm with the prevailing relevant schedule of rates and/or technically sanctioned estimate.
19. The intending Notice of Expression of interester is required to quote the rate in his own handwriting in figure as well as in words mentioning percentage above/below or ATPAR on the basis of the B.O.Q of probable items with approximate quantities.
20. Contractor shall have to comply with the provisions of (a) the Contract labour (Regulation Abolition) Act. 1970 (b) Apprentice Act 1961 and (c) Minimum wages Act. 1948 or the modification thereof or any other laws relating thereto and the rules and order issued there under from time to time.
 - (a) Contractor should engage one Degree and one Diploma Engineer exclusively for the work particulars of them must be furnished along with attested copies of certificate and appointment letters.
21. The intending Notice of Expression of intersperse will have to produce PAN Card of income Tax. Professional tax Clearance certificate, G.S.T Registration which will be valid up to the date of opening of the Notice of Expression of interest. Credential documents of value as stated in annexure in a single work within last 3(three) years adequate financial capability audit report along with certificate of Chattered Accountant for last 3(three) for both individual and companies and registration certificate issued by Registered of companies. West Bengal in case of companies along with the 'Technical Bid'.
22. Representation in Notice of Expression of interest in connection with Notice of Expression of interest submitted by Co-Operative Societies: - The Chairman and the Secretary or three directors

including either the Chairman or the Secretary shall execute and sign all deeds, Documents, Notice of Expression of interest papers as per act of the Bye-laws of the Co- operative Societies, failing which the Notice of Expression of interest will be liable for rejection. The copy of the last Audit report (full) including copy of the minutes of last A.G.M has to be submitted along with the 'Technical Bid' for verification of the authority.

23. No credential will be considered unless it is supported by payment certificate, work order and completion certificate mentioning the date of completion issued by the competent authority not below the rank of Prodhan or similar rank.
24. All Notice of Expression of interest or his authorized representative is requested to present personally during the opening of the Notice of Expression of interest and to sign the Notice of Expression of interest opening register as witness.
During the process on subsequently if it is found that the documents submitted by the renderers are false, fictitious, etc. Then the person/ agency will be liable to criminal offence and action will be taken accordingly.
25. During Construction works on road. Which is open to traffic, suitable barriers with security arrangement are to kept to segregate the area of work. Red light are to be provided at such barriers are night during poor visibility, Night Chowkidars are also be maintained. All these will -have to be considered and it should be included in the rates quoted by the firm during Submission of Notice of Expression of interest.
26. The authority reserves the right to reject or cancel any Notice of Expression of interest or all Notice of Expression of interests without assigning any reason thereof. And no claim in this respect will be entertained.

The intending Notice of Expression of interests , at their own responsibility and risk is encouraged to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for the work as mentioned in the NIT. The cost of visiting the site shall be at the Notice of Expression of interest's own expenses.

27. Copy of this NIT along with other Notice of Expression of interest document may be obtained from the website <http://wbNotice of Expression of interests.gov.in>

28. Preparation of Bids.

- i. Documents comprising the bid.

The Bid submitted by the bidder shall be in two separate parts. Part-1:

This shall be named 'Technical Bid' and shall comprise of.

- i) 'Earnest Money' in a separate cover marked 'Earnest Money'.

Authorized address and contact details of the bidder having the following information:-

Telephone no. (Land)_____ Mob No.

_____.

Fax no. _____.

Email ID _____.

- ii. Qualification information supporting documents as specified in clause 19, 20,21,22,23.
- iii. Undertaking that the bid shall remain valid for the period specified in clause 11.
- iv. Any other information/ documents required to be completed and submitted by bidders.
- v. An affidavit affirming that information he has furnished in the bidding documents is correct to the best of his knowledge and belief.
- vi. An index stating the page Nos. Of all documents submitted.

vii. Regarding bidding document

- a) Lease or hire of machineries.
- b) Bid validity.

Part-ii: it shall be named `Financial Bid and shall comprise of.

- 1) Form of Bid.
- 2) Bid validity.

Each part shall be separately sealed and marked in accordance with the instructions.

30. Audit Report of last 3 years

31. The Contractor is liable to his own arrangement necessary mechanical devices viz. Vibrator etc. He is also liable to submit actual work proportion to the Employer.

32. **Cost of Notice of Expression of interest Papers:** Cost of Notice of Expression of interest paper to be deposited as per Annexure by NEFT/RTGS. On any Nationalized Bank with branch at Nokari Ranaghat .In favour of Pradhan, Nokari Gram Panchayat. Cost of Notice of Expression of interest documents to be submitted during opening of Technical Bid with full name of Farm and address of the bidder in details in their letter head and also mentioning the name of work, **Notice of Expression of interest Notice No. 9(e)/15th F.C/UNTIED/NOKGP/21-22 Earnest Money:-** As per annexure to be deposited along with the technical bid by Bank Draft on Any Nationalized Bank with Branch at ***Nokari Ranaghat in favour of PRADHAN NOKARI GRAM PANCHAYAT*** as stated above. Balance earnest money Fixed Rs.13000 as per Clause-10. Original Bank NEFT/RTGS for Earnest money to be submitted during opening of Financial bid with full name of Farm & address of the bidder and the mentioning the name of work e-NIT No.- 9(e)/15th F.C/UNTIED/NOKGP/21-22 & Serial No-1, in their letter head.

33. In their letter head. In no case deposit slip of Bank will considered.

34. The Agency also may deposit earnest money and Cost of Notice of Expression of interest Paper through Original Bank NEFT/RTGS at NOKARI GRAM PANCHAYAT, NOKARI RANAGHATA, NADIA.

35. Earnest money for each and every category to be deposited compulsorily and no exemption of Earnest Money for Labour/ Engineer Co-operative will be entertained.

37. **Submission of bids:-**

The bidder shall place the two separate envelopes (Called inner envelopes) marked. "Technical Bid" and "Financial Bid" in one outer envelope. Mentioning the name of work e-N.I.T No. And Sl. No. The inner envelopes will here marking as follows.

- i) `Technical Bid`
- ii) `Financial Bid`

The contents of the `Technical Bid` & Financial Bid` shall be as specified in clause `preparation of Bid`.

The inner and outer envelopes containing the `Technical & Financial Bid`s shall.

- a) Be address to NOKARI GRAM PANCHAYAT, NOKARI, RANAGHATA, NADIA.
- b) Bear the e-N.I.T No., Sl. No. & Name of work.
- c) Be indicated the name & address of the Bidder in details i.e. Vill. /Lane/P.O/District etc. To enable the Bid to be returned unopened in case it is declared unopened as non-responsive.

Late Bids

Any Bid received after the stipulated time, will not be accepted.

38. **Bid Opening**

The received bids will be opened (Except those received late) in the presence of the bidders /bidder's representatives who choose to attend at the specified time, date & place. In the event of the specified date for the submission of bids being declared a holiday the bid will be opened at the appointed & location on the next working day.

- The envelope containing the technical bid shall be opened first.
- In all other cases, the amount of Earnest Money, forms and validity shall be announced. Thereafter the bidders' names and such other details as may be considered appropriate will be announced at the opening.
- Evaluation of technical bids with respect to qualification information other information in part-I of the bid shall be taken up and completed preferably within the prescribed period and list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
- A list of bidders, whose technical bids are found responsive, will be displayed in the office notice board prior to the schedule date of opening of financial bid. In case the specified date is deferred a corrigendum notice will be published and will be displayed in the office notice board.
- At the time of the opening of the 'Financial Bids' the names of the eligible bidders will be announced. The financial bids of only those bidders will be opened. The remaining bids will be returned unopened to the bidders.

38. Condition of penal Action and additional Term and Conditions:

Terms:

- i) Credential 40% of total work value in similar type of work.
- ii) Time of Completion 30 Days from the date of issuance of work order.

Mode of Payment:-

- a) 90% payment would be made after completion of the work.
 - b) Balance 10% payment will be release after 1year from the date of completion of the work
 - c) 1% Cess will deducted from bill.
- Agency will libel to consult with WBSUEDCL for replacement of existing enery meter to IMP-EXP energy meter.

Description of items of works

**Prodhan
Ranaghat Nokari Gram Panchyat
Ranaghat, Nadia**

Sl. No.	Item Description	Rate (In Rs.)	Units
1	<p>Solar PV Modules: The total Solar PV Array Capacity shall be of 6 KWp. Mono/Poly Crystalline type solar modules of desired nominal voltage or peak power rating which meet specifications under STC: <u>Type:-</u> Mono / Poly Crystalline type Solar Module <u>Nominal Maximum Power (Pm):-</u> 300 / 330 W <u>Power tolerance:-</u> 0 / 5 W <u>Open Circuit Voltage (Voc):-</u> 45.00 V <u>Short Circuit Current (Isc):-</u> 8.89 A <u>Voltage at Maximum Power (Vmp):-</u> 36.50 V <u>Current at Maximum Power (Imp):-</u> 8.22 A <u>Module Efficiency:-</u> 15.46 % <u>Maximum Series Fuse Rating:-</u> 15 A <u>Fill factor:-</u> >= 70% <u>Warranty:-</u> Panel output (Wp) capacity to be >=90% at the end of 12 years and >=80% of at the end of 25 years. <u>Module frame:-</u> :Non-corrosive and electrically compatible with the mounting structure material <u>Termination box:-</u> Thermo-plastic, IP 65, UV resistant <u>Blocking diodes:-</u> Schottky type <u>Identification tag data:-</u> Identification tag for each solar module Shall be provided inside the module and must be able to withstand environmental conditions and last the lifetime of the solar module. Name of the manufacturer with logo Month and year of manufacture Model No (Should consists of the voltage and rate wattage) b) Module serial number c) Made in India. <u>Make::</u> Synergy Solar, Vikram Solar, Sova Solar or Any MNRE Approved.</p>	24	WP
2	<p>Cable & Wiring: Wiring with 1.1 KV grade single core PVC insulated stranded Copper wire in EI conduit/GI conduit and painting 2x6 sqmm wire in 19 mm conduit incl. S&F 1x14 SWG GI ECC Ref: PWD Electrical Schedule 2017, Page- E-1, Item- 1.d</p>	205.00	RM
2	<p>Off grid cum Hygrid Conditioning Unit: As SPV array produce direct current electricity, it is necessary to convert this direct current into alternating current and adjust the voltage levels to match the grid voltage. Conversion shall be achieved using an electronic Inverter and the associated control and protection devices. All these components of the system are termed the "Power Conditioning Unit (PCU)". In addition, the PCU shall also house MPPT (Maximum Power Point Tracker). Inverter output should be compatible with the grid frequency. Typical technical features of the inverter shall be as follows: <u>Rated AC power:-</u> 415 V, 3 Phase , 50 Hz <u>Max Supported Panel Power:-</u> 6600 Wp <u>Charge Controller:-</u> MPPT <u>Nominal Battery Bank Voltage:-</u> 96 V (Supports 8 Batteries) () Intelligent system with 32 bit DSP Controller which enables it to handle multiple algorithms efficiently () Inbuilt MPPT charge controller extracts upto 30% more power from Panels () Inbuilt isolation transformer to protect from grid surges and noise () Selectable source priority: Choose source priority from solar, battery and grid () User friendly Informative LCD Display for time charging, Supply etc () Dual MCB protection against short circuit protection for AC and DC () Safe for your home with comprehensive protection features such as short-circuit, reverse polarity, battery over-charge and battery deep-discharge. () Pure sine wave output for safety and noiseless operation of connected appliances. () Withstand ambient temperature range 0 deg to 55 deg. () Withstand ambient humidity range 5% to 90% condensing. () Includes System for Surge protection, Lighting protection, Earthing Protection etc. () Compliance to most of the National & International standards for safety and efficiency and reliability, such as IEC – 61683, IEC – 60068 – 1,2,14,30, IEC – 60529</p>	120000.00	Set
3	<p>0 input device</p>	15000.00	Set
1	<p>The PV modules shall be mounted on fixed metallic structures having adequate strength and as per specifications of solar module which can withstand the load of the modules and high wind velocities. The array structure will be made of pre galvanized sheet steel of size not less than 50mm x 50mm x 6mm size/Aluminium (L-angle – 50mm x 50mm x 5mm, U-channel – 33mm x 30mm x 33mm x 3mm). The support structure shall be hot dip galvanized steel or aluminium. The array structure shall be grounded properly using maintenance free earthing kit suitable for mounting over building terrace. <u>Wind velocity withstanding capacity:-</u> 150 km / hour <u>Structure material:-</u> Pre galvanized sheet steel with a minimum galvanization thickness of 80 microns and the structural patterns shall be made before galvanizing Bolts, nuts, panel mounting clamps, fasteners (with spring washers): Stainless steel Mounting arrangement for metal sheet roofs : Mounting directly on the sheet metal, ensuring stability and wind withstanding capacity or penetrating the sheet metal and fixing to the sub-structure, ensuring that the roof remains water proof and ensuring stability and wind withstanding capacity. <u>Ground installations:-</u> With removable concrete ballast made of pre-fabricated PCC (1:2:4), M15; assuring enough ground clearance to prevent damage of the module through water, animals and other environmental factors. <u>Panel tilt angle:-</u> North – south orientation with a fixed tilt angle of 27-30 degrees(depending on location), south facing. However to accommodate more capacity the angle inclination may be reduced until the plant meets the specified performance ratio requirements.</p>	8.50	Set

2	Cable Termination: Finishing of the PVC insulated wire ends by socketting with pin/ ring type copper sockets and insulated tapes etc., including supplying sockets, tapes of 6 sqmm. Ref: PWD Electrical Schedule 2017, Page- F-5, Item- 9	9.00	Set
3	Array Junction Box: The junction boxes shall be provided in PV array field for termination of connections from various arrays. Features: <ul style="list-style-type: none"> • Made of FRP • Dust and vermin proof • Suitable MOV's shall be provided for high voltage surge • Copper bus bars of suitable rating 	2100	Set
4	Earthing: Earthing with 65 mm dia GI pipe (TATA-Medium)x 3.0 Mts. long and 1 No. 50 mm x 6 mm galvanized (Hot Dip) steel strip (4 Mts. long), 20 mm dia x 125 mm long galvanized bolt, double nuts, double washers including finishing both ends by making holes etc. and S & F 65 mm dia GI pipe (ISI-Medium) protection (3 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level to an average depth of 3.65 Mt. Ref: PWD Electrical Schedule 2017, Page- G-1, Item- 2.d	3765	Set
5	Earthing Pit Excavation: Excavation of soil for installation of Earth Electrode and filling & ramming.: For Morum Soil Ref: PWD Electrical Schedule 2017, Page- G-1, Item- 1.a	286	Cum
6	Battery 12 Volt 150 AH Tubuler 150 Ah 96 Volt capacity battery bank along with battery bank stand set	24000	nos
7	Lightning Arrester: The suitable lightning arrestors installed in the array area. Lightning protection be provided by the use of metal oxide arrestors and suitable earthing such that induced transients find an alternate route to earth. Protection shall meet the safety rules as per Indian Electricity Act 2003/IE rules.	4770	Set
8	The fire fighting system for the proposed power plant for fire protection shall be consisting of: <ul style="list-style-type: none"> • Portable fire extinguishers in the control room for fire caused by electrical short circuits. • The fire extinguishers shall be provided in the control room housing the PCU. 	4600	Set

Memo No. 326/1(7)/NOK/21

Dated: 17/12/2021

Copy forwarded for information and taking necessary action to:

- 1) The Sub Divisional Officer, Ranaghat Sub Division, Ranaghat, Nadia.
- 2) The Block Development Officer, Ranaghat-II Development Block, Nokari, Ranaghat, Nadia.
- 3) ISGP CEL Ranaghat, Nadia
- 4) The Branch Manager BANK OF INDIA , Nokari, Ranaghat, Nadia.
- 5) Local Daily News Paper.
- 6) Post Master, Nokari sub Post Office, Ranaghat, Nadia.
- 7) Office Notice Board (NOKARI GRAM PANCHAYAT)

Prodhan
 Ranaghat Nokari Gram Panchyat
 Ranaghat, Nadia

ANNEXURE

Notice of Expression of interest:- 9(e)/15th F.C/UNTIED/NOKGP/21-22

Sl. No.	Name of Work with Location	Estimated Amount (Rs.)	Earnest Money @ Fixed Rs.)	CREDENTIAL	Time of Completion in Days
1	SUPPLY OF 6KWP OF-GRID CUM HYGRID SOLAR POWER PLANT Activity ID- 46579404 for Plan Year 2021-22 UNDER NOKARI GRAM PANCHAYAT	TO BEE ITEM WISE TOTAL QUOTED AMOUNT	13000.00	Resourceful contractors having credential in such type of work @ 40%	30 DAYS

Prodhan
Ranaghat Nokari Gram Panchyat
Ranaghat, Nadia