



Preamble

BHEL-EDN , Bangalore, a UNIT of Bharat Heavy Electricals Ltd , MAHARATNA public sector is in the field of setting up grid connected Solar PV plants in various parts of the country as an EPC solution. Grid connected Solar PV plants totaling to a capacity of 150-200MW are being targeted by BHEL per annum. BHEL-EDN desires to empanel reputed CIVIL vendors/Contractors who have capability to engineer, supply and also execute the site Civil works. BHEL shall empanel vendors in three segments based on experience of vendor in following MW size of Solar PV Plant.

- Segment -A : 50 and above
- Segment -B : 10 to 50MW
- Segment -C : 1 to 10MW

The vendors /Contractors must be a firm or company based in INDIA.

The project size targeted by BHEL could vary from 1MW to 50MW and above and can be anywhere in INDIA. Hence the bidders are required to be aware of various statutory, regulatory requirements of state/center and are required to follow the various stipulations called for during the execution of project. The details of civil works to be carried out are as per **Annexure-1**.

Requirements

1. The Vendor/Contractor desiring for empanelment should have construction experience in the civil works listed in annexure-1. Experience in civil works of Grid connected SOLAR PV PLANT of size as per segment A,B and C listed above or those who have completed similar Civil works elsewhere in any thermal/hydro power plant, industrial units in the last two (2) years as on the date of opening of this EOI, will be considered . The vendor/contractors must furnish details about their company particulars regarding the operation, facilities, manpower, number of projects executed since inception and other experiences with necessary credentials in support of their claim for empanelment into the 3 segments mentioned above. Completion certificates from the customer certifying the scope of works, value and the time lines awarded for various activities including the work order released by the customer for the projects executed is required to be furnished.
2. The vendor/Contractor should have their own Tools, Plant and machinery preferably, like DTH/AUGUR, Mini Batching plant / AJAX mixers, tractor, hydra, road construction equipment, shuttering materials, scaffolding materials, vibrators etc, for carrying out the civil works and should have capability for mobilizing additional Tools, Plant and machinery and Field Laboratory, Survey equipment like Total station, Auto level etc at short notice for simultaneous works at various fronts to meet the short schedule of works. The contractor shall have on their roll qualified Civil Engineers and supervisors who shall be required to monitor the works carried out by skilled and unskilled labor force. The contractor shall have capacity to arrange sufficient labor so that the project schedule is not affected in any way as per project requirement in each segment.
3. The vendor/Contractor shall furnish the details of manpower and machinery owned by them. A typical activity plan for executing Civil works from the zero date to completion of all activities as per



EXPRESSION OF INTEREST-EMPANELMENT OF CIVIL
VENDORS/CONTRACTORS FOR SOLAR PV PROJECTS SITE
WORKS

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PAGE : 2 OF 4

scope in a time line of maximum 4 months for 10MW, 20MW and 50MW Grid connected Solar PV Plant as per segment that the vendor /contractor is applying for, shall be submitted. Manpower planned to be employed, L2 and L3 schedules (Micro planning) and machinery required to be employed shall be indicated. The vendor/Contractor may also furnish the details of the same in the projects executed by them if any for the above exercise.

4. The vendor/Contractor should have adequate financial strength to carry out and complete all Civil works simultaneously in 2 project sites of BHEL of size as per the respective segment that the bidder would target for empanelment, each project in maximum 4 months without any stoppage. The vendor shall submit the financial information for the previous 3 years or from the date of commencement of operation whichever is later in BHEL format. Vendor/Contractor should have achieved annual average financial turnover of Rs 4 to 5 crores per annum for segment C at the maximum rating of 10MW, similarly Rs 10 Crores for segment B and Rs 20crores for segment A during the above period as evidenced by the audited financial results.
5. The vendor/Contractor shall be required to assist BHEL in getting Customer approval for the design drawings, calculation etc. The vendor/contractor must have in their possession, necessary soft tools like STAAD, AUTOCAD and project monitoring software which are basic minimum requirements along with trained engineers and draftsmen. The firm shall have on their roll a planning team for project monitoring and for logistic support. Contractors who do not have these facilities but have outsourced the same shall furnish the details of the partner firms for various activities outsourced.
6. The vendor/Contractor shall also have a team of qualified professionals in Quality and HSE on their roll for overseeing the site works in multiple location at times. Necessary infrastructure set up like field laboratory for carrying out field testing of concrete, sand, cement, aggregate and soil at site is mandatory. The site team will coordinate with BHEL team at site and ensure that all the works are certified by the customer meeting the specification requirement. The vendor/contractor may furnish their quality plan/standards followed by them for various works including HSE practices/plan.
7. The vendor/Contractor shall bring out their concurrent commitments on various projects and the status of their resource usage to be indicated.
8. Vendors who are in the field of design but having strategic partners with civil contractors for carrying out activities at PV site are also eligible to participate. Details of the strategic partnership, number of projects executed, value and end customer certifications are to be submitted .Documentary evidence of such partnership to be furnished for BHEL scrutiny. All the above requirements (Sl No 1 thru 7) are also to be complied by the consortium.
9. BHEL will be executing the projects based on customer specifications, tender terms and conditions. The same will be applicable to the vendor/contractor.
10. The vendor/Contractor may indicate in their work experience the various terrains/ground/soil conditions in which they have carried out various works .



11. The vendors/contractors may indicate their preparedness to participate in the tendering process thru e-procurement mode
12. Vendor/Contractor to furnish all details in BHEL furnished format covering the following details.
 - a) Company profile & organizational information
 - b) Ownership information
 - c) Registration particulars
 - d) Manpower
 - e) Other particulars.
 - f) Bank details of the Company
 - g) Quality Systems
 - h) Financial Information for the previous 3 years or from the date of commencement operation whichever is later.
 - i) Resources owned by the company-Formats A),B) and C)
 - j) Work Experience in civil works in last 5 years or from the date of commencement operation whichever is later, as on the date of opening of EOI.

All columns are to be filled up in the space provided for. Separate sheets may be attached if the space provided is insufficient or if additional information to be given. The Formats to be filled are to be downloaded from www.bhel.com. The link furnished may be used. [http://www.bhel.com/vender_registration/pdf/Guidelines to Contractors SEARP2010Amdt_04for_web.pdf](http://www.bhel.com/vender_registration/pdf/Guidelines_to_Contractors_SEARP2010Amdt_04for_web.pdf) . The response to this EOI to be addressed to AGM-SC&PV/PVSS, BHEL, Electronics Division, Mysore Road, Bangalore-560026. The last date for receipt of applications in sealed cover is 09/02/2015, 15:30Hrs.

EVALUATION

1. BHEL-EDN will be evaluating the Vendor/Contractor on all the parameters above and shortlist based on a ranking methodology. BHEL shall intimate the shortlisted vendors/contractors for further discussions, presentations before empaneling. BHEL decision on this will be final. BHEL at their discretion shall inspect the vendor/contractor works/premises/sites for evaluation.
2. Further procurement and tendering process shall be as per BHEL policy and guidelines.
3. The empanelment will be for a period of 3 years. During this period the vendor/contractor performance will be evaluated on a continuous basis on works executed in BHEL project sites. BHEL reserves the rights to disqualify a vendor/Contractor based on their adverse performance levels if any during this period.
4. This expression of Interest is not an agreement and is not an offer or invitation to enter into an agreement of any kind with any party by BHEL.



ANNEXURE-1

CIVIL WORKS WITH MATERIAL SUPPLY AND WORKS FOR PV PLANT

1. Establishing site office, Field Laboratory
2. Jungle clearance and tree uprooting
3. Land levelling, compacting and grading
4. Fence/ Compound wall-Chain link / Pre cast concrete panel/ Brick wall at site
5. Internal roads (Concrete/Bituminous)
6. Pathways (Concrete/WBM/Gravel)
7. Control room building – Concrete/Prefab
8. Inverter room buildings- Concrete/Prefab
9. Transformer Foundations
10. Switchgear foundations (HT Panel)
11. Switchyard foundations for CT, PT, breakers.
12. Security Room/Cabins/Watch towers
14. Peripheral Lighting poles, Foundations – Civil works only
15. Drainage works (Drains & culverts)
16. Module water wash system –Civil works including sump tank/tanks and pumping system. The

Above list is indicative and may vary as per site location, project requirement and scope division between contractors.