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**BHARAT HEAVY ELECTRICALS LIMITED**  
**(A GOVT. OF INDIA UNDERTAKING)**  
**ELECTRONICS DIVISION**  
**P.B. No.2606, MYSORE ROAD, BANGALORE-560 026.**

**TENDER DOCUMENT FOR “EXPRESSION OF INTEREST (EOI)**  
**FOR EMPANELING OF VENDORS/CONTRACTORS/CONSULTANTS**  
**FOR SUPERVISION WORKS OF SOLAR PV PLANT EPC**  
**WORKS AT SITE.”**

**Tender document submission due Date : 19/10/2016 (13:00 Hours)**  
**Tender opening Date: 19/10/2016 at 13:30 Hours**

**Tender to be addressed to**

**AGM (SC&PV-PCG)**  
**BHEL EDN, Mysore Road**  
**Post Bag No 2606**  
**Bangalore-560026,**  
**Contact No:(080) 26998656**  
**Mobile:+91 9591112769**

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## 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 vendors/Contractors/Consultants who have capability to extend manpower support to supervise the various works involved in erection and commissioning and assist BHEL. **The duration of the projects are likely to be around 6-10 months.**

The Vendor/Contractor/consultant 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 various works are as per **Annexure-1**.


## Requirements

1. The Vendor/Contractor/consultant desiring for empanelment should have the necessary supervision experience in the civil, electrical works including supervision during O&M listed in annexure-1. Experience in Grid connected SOLAR PV PLANT or those who have experience in similar works elsewhere in any thermal/hydro power plant, industrial units in the last five (5) 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, and number of projects executed since inception and other experiences with necessary credentials in support of their claim for empanelment. 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/consultant shall furnish the details of manpower available for deployment by them including their experience, designation, expertise etc.
3. The Vendor/Contractor/consultant 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. 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/consultant may furnish their quality plan/standards followed by them for various works including HSE practices/plan.**
4. The Vendor/Contractor/consultant shall bring out their concurrent commitments on various projects and the status of their resource usage in their documents being submitted in this EOI.
5. BHEL will be executing the projects based on customer specifications, tender terms and conditions. The same will be applicable to the Vendor/Contractor/consultant for their scope of works to be implemented at site.

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6. The Vendor/Contractor/consultant may indicate their preparedness to participate in the tendering process thru e-procurement mode, Reverse auction in addition to the sealed bid.
7. The Vendor/Contractor/consultant to furnish the manpower deployment cost for the services of supervision indicated elsewhere in the EOI. The parties will be shortlisted based on the lowest cost to company (BHEL).
8. The Vendor/Contractor/consultant to note that incase of award of project supervision works for a project under execution, the firm will not be allowed/entitled to participate in any other works in that project.
9. The detailed requirement of this EOI is elaborated in subsequent pages.

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## ANNEXURE-1


### CIVIL WORKS FOR PV PLANT (Typical)

1. Establishing site office, Field Laboratory for civil works (optional)
2. Jungle clearance and tree uprooting
3. Land levelling, compacting and grading
4. Fence/ Compound wall-Chain link / Pre cast concrete panel/ Brick wall construction
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.
17. Module mounting structure –civil works and associated structural works including PV module mounting.

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

### BOS E&C WORKS FOR PV PLANT (Typical list)

1. Erection works of all transformers, VCB, Invertors, HT panel, SCADA, SMB, Switch yard equipment, transmission line and other items as per scope of the PV plant.
2. All cabling works of the Solar PV plant –Interconnections from PV module array to Power evacuation at Switchyard. (HT 33KV,66KV,132KV cable laying, termination works)
3. All cabling related trench works/cable tray erection in the field
4. All civil, mechanical and electrical works of Earth pit, fencing of transformer yard in the plant.
5. Electrical works of Module water wash system, Lighting and Illumination system of the plant.
6. Erection and commissioning of weather monitoring system ,lightening arrestor
7. Erection and commissioning of UPS, DC Charger system including ACDB, DCDB.
8. Erection and commissioning of fire protection system.
9. Earth mat construction.
10. Commissioning assistance to invertors, HT panel, Transformers, SCADA supplied by other vendors.
11. Trial run and PG test Co- ordination and assistance to BHEL in conductance of the PG Test.
12. O&M service supervision.

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### Objective:

With the aim of timely completion of the project, the Project authority shall require adequate manpower for site supervision. The selected consulting firm shall provide trained manpower in adequate number to carry out supervision of the construction; installation and commissioning of the PV Plant in compliance with quality requirements.

The main purpose of supervision consultant is to provide support to the employer to ensure successful implementation of the Project as per technical specifications, drawings & design, relevant standards and provisions of the bidding documents (especially Employer's requirements) with following clear objectives:-

- To Co-ordinate with Project Authority of the employer to ensure proper and timely execution of the project as per Quality Assurance plan/relevant standards/provisions of contract / Technical Specifications/approved drawings.
- Supervising the quality of execution of works at sites.
- To ensure adherence to safety standards in compliance with rules & regulations of various statutory bodies.
- Certification of quality of civil works, measurements, installation services of electrical equipment, cabling carried out by various Contractor at sites.
- Random Site checking of material received after inspection and shipment to ensure the material received are in good condition.
- Other associated activities related with quality assurance of the works and material.

### 1. Scope of Consultancy Services


The scope of consultancy services shall encompass the following activities:

#### 1.1 Construction Supervision and Allied Activities

The monitoring and supervision of works at sites shall be carried out by the Consultant. They will supervise the quality of works executed by the Contractor at sites to ensure that the works are being executed as per Technical Specifications and as per the standards laid down in the contract/bidding document. The supervision Consultant shall be responsible for the supervision of construction and installation services. The Consultant shall represent interest of BHEL Vis a Vis the contract in all manner related to proper execution of the works at sites. The main activities to be checked by the consultant to ensure that the works are executed as per Technical Specifications and Quality Assurance plan of the contract shall be as under:

##### 1.1.1 Supervision of the Civil Construction Work

Supervision of civil construction works shall be as per the Quality Assurance Plan for the contract approved by BHEL /Client of BHEL , contractual provisions, drawing and designs prepared by Contractor and approved by the Engineer and BHEL's practices as advised by the Project Authority. The following shall in any case be specifically checked and reported:

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- i) Check the line and position given by the Contractor for the construction of various foundation as per the already approved drawing.
- ii) Analyze the site conditions/requirements and suggest if any change in approved foundation and its types and other civil structures according to site requirements.
- iii) Check the reinforcement as per the approved drawing.
- iv) Supervise and check the stub setting as per the approved drawings.
- v) Supervise the concreting works for the foundation as per the technical specification.
- vi) Supervise the construction works for different other civil works as per approved design
- vii) Supervise the back filling of various works with proper compaction of earth.
- viii) All other related works, not mentioned herein above, but reasonably required for satisfactory completion of work.

#### 1.1.2 Supervision of Erection of the MMS Structures and Installation of Hardware


The scope of Supervision of erection of the MMS structures shall consist of the following:

- i. Check the supplied structure material for compliance to the approved drawing and for any damage during transportation.
- ii. Supervise the erection of structure as per technical specification and approved drawing.
- iii. Check the connection of joints of the structures as per approved drawing.
- iv. Check the supplied hardware and related fittings and its installation for compliance with the technical specification and approved drawing.
- v. All other related works, not mentioned herein above, but reasonably required for satisfactory completion of work.

#### 1.1.3 Supervise the Stringing Works, cabling up to Invertor room. (Electrical)

The scope of Supervision of stringing works shall consist of the following:

- i. Assist the contractor to check the supplied hardware and related fittings are in compliance with the technical specification and approved drawings.
- ii. Check the supplied items for any damages before stringing and cabling.
- iii. Supervise the stringing works and cabling to ensure that works are carried out as per requirement for quantity and quality.
- v. All other related works, not mentioned herein above, but reasonably required for satisfactory completion of work.

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#### 1.1.4 Supervise the Installation works of control panels in invertor room and Control room .( Electrical)

i. Various electrical control panels like Invertor ,ACDB,HT panels ,FCBC, Batteries , Fire Alarm panels, Metering panels are required to be installed in various rooms as per approved drawing in locations predetermined to suit cabling from field and other requirements. Supervision of the installation, earthing and safety aspects are to be ensured as per approved drawings and best practices followed in industry.

ii. in addition , ducting works are involved to evacuate hot air from inside equipment. Location , installation by various methods as per drawing/as per Manufacturer recommendation.

#### 1.1.5 Supervise the Installation works of Transformers , transmission lines, towers and switchyard equipments.( Electrical)

- i. Erection of equipment as per approved drawing
- ii. cabling works .
- iii. earthing of various parts as per approved drawing
- iv. compliance to various IS stipulations .

#### 1.1.6 Testing & Commissioning.

The scope of testing & commissioning will include the following:

- i. Review and approve the contractor's procedure of commissioning and acceptance tests (to be submitted by the contractor of BHEL ).
- ii. Supervise testing and commissioning of the plant supplied by the contractor(s) for the project and ensure that quality and credibility of the outputs is as stipulated in the bidding document. Assist BHEL in commissioning of system. This includes trial run and PG test.
- iii. All other related works, not mentioned herein above, but reasonably required for satisfactory completion of work.


#### 1.1.7 O&M services

The contractor to arrange supervisory level personnel in their role for overseeing O&M activities and arrange to furnish periodic reports to BHEL .O&M will be carried out by other contractors which includes regular operation of PV plant, module water wash as per defined cycle ,Seasonal tilt of MMS structure ,SCADA reports etc. The O&M period ranges from 1 -6 years depending on the project requirement.

#### 1.1.8 Other Allied Activities

These allied activities are supposed to include the following:

- i. Assess the adequacy of all inputs such as materials, plant, equipment and labor provided by the contractor and his method of work in relation to the required rate of progress, and when required to take appropriate

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action in order to expedite progress. Keep and regularly update a list of the contractor's equipment (and its condition) to ensure compliance with date of completion provided in his contract.

ii. Extend timely assistance and directions to the contractors in all matters related to interpretation of the contract documents, plans, quality control testing, and other matters relating to contract compliance and progress.

iii. Keep close coordination and liaison between different concerned organizations/agencies inside and outside of BHEL during execution of Project. Check/review and monitor schedule for construction activities prepared by the Contractors to ensure the timely completion of Project.

iv. Propose to BHEL for approval any changes in the plans due to difficulties or barriers, which were not expected at the start of the project or changes which are deemed necessary for the completion of the work, indicating any effect the changes may have on the contract amount and any additional time required to complete the project.

v. Check construction drawings for any alteration in the same according to site requirements. Ensure the "as-built drawings" are prepared for all works as the work progresses are finalized.

vi. Upon substantial completion of works, inspect the works and inform the contractor in writing regarding the items needing certification for full completion. Prepare the measurement book for recording the progress of various civil works and assist BHEL in certification of bills raised by civil contractors. Upon full completion, the consultant shall assist BHEL in doing the inspection of the project in connection with the issuance of the Completion Certificate stating the date or dates from which the Maintenance Period shall start. Consultant will issue taking over certificates after prior approval by BHEL and completion of outstanding works.

vii. Perform any and all other items of work not specifically mentioned above, but which are necessary and essential to successfully supervise and control the construction activities in accordance with the plans, specifications and terms of contract.

## 1.2 Project Management, Quality Control and Safety.


i. Check and make recommendations on quality assurance, quality control plan and submitted by contractors.

ii. For determining that the construction works and the material conform to the specification and standards, the consultant shall require the contractor to carry out or cause to be carried out all necessary tests as provided in contract and in accordance with good Industry practice for quality assurance. The consultant shall issue necessary directions to the contractor for ensuring that the tests are conducted in a fair and efficient manner and shall monitor and review the results thereof.

iii. The consultant shall prepare a schedule/program to carry out/witness inspections/tests and notify the same to the Engineer, who may, in its discretion depute its representatives to be present during the inspection/tests.

iv. In the event that the Contractor carries out any remedial works for removal of any defects or deficiencies, the consultant shall require the contractor to carry out, or cause to be carried out, tests to determine that such remedial works have brought the Construction Works into conformity with the specifications and Standards.



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v. In the event that the contractor fails to achieve any of the Project milestones/timelines, the consultant shall undertake a review of the progress of construction and identify potential delays, if any. If the consultant shall determine that completion of the works is not feasible within the time specified in the contract agreement, it shall require the contractor to indicate within 15 (fifteen) days the steps proposed to be taken to expedite progress, and the period within which the Project Completion Date shall be achieved. Upon receipt of a report from the contractor, the consultant shall review the same and send its comments to the employer, Engineer and the Contractor forthwith.

vi. If at any time during the Construction Period, the Consultant determines that the Contractor has not made adequate arrangements for the safety of workers or any other persons in the zone of construction, or that any work is being carried out in a manner that threatens the safety of the workers or any other persons in the zone of construction, it shall make a recommendation to the Employer forthwith, identifying the whole or part of the Construction Works that should be suspended for ensuring safety in respect thereof.

vii. In the event that the Contractor carries out any remedial measures to secure the safety of suspended works and other persons in the zone of construction, it may, by notice in writing, require the Consultant to inspect such works, and within 3 (three) days of receiving such notice, the Consultant shall inspect the suspended works and make a report to the Employer forthwith, recommending whether or not such suspension may be revoked by the Employer.

viii. Monitor schedules for material procurement offered by the contractors/suppliers to ensure timely completion of the project.

ix. Monitor the progress of delivery for installation and check/review the status of installation as per detailed design and provide feedback to the project Authority and the Engineer on weekly/monthly basis.

x. Maintain record of the material utilized & Reconciliation of material for the project.

### 1.3 Verification of Contractor's Invoices

i. Measure and determine quantities for certification or progress payments due to the contractor in accordance with the provisions of the respective contract document.

ii. Review and check contractor's request for payments and issue certificate to BHEL for payment to the contractor(s).


iii. Scrutinize contractor's claims and submit recommendations to BHEL.

iv. Submit reviewed monthly invoices to BHEL for settlements of payments due to the contractors.

v. Assist in liaison and final settlements of the claims between BHEL and contractors except in the cases of litigation and arbitration. Also provide recommendations on any outstanding claims of the contractors.

### 1.4 Defects Liabilities Period and Completion of the Project

Supervise completion of the outstanding works and removal of the defects by the contractor(s) during defects liability and issue Defect Liability Certificate(s).

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### 1.5 Reports and Documents

The Consultant shall prepare and submit the following documents and reports to BHEL. All reports should be in English format and content of each report should be acceptable to BHEL. For each report submitted an electronic copy will also be provided.

i. The Consultant shall Prepare detailed implementation plan in coordination with the Contractor with monthly reviews, comments and updates. Implementation plan report should indicate the activity-wise phasing of construction. Steps that could be taken to reduce the period of construction should also be indicated. Identify the critical factors that could affect construction/implementation of the project and develop a detailed management plan and recouping strategies for such factors.

ii. Consultant shall submit a weekly Progress Report that summarizes all aspects of the completed week and cumulative work progress. The objectives of the weekly Progress Report are to:

a) Provide a reliable and readily accessible summary record of the project activities and progress during the just completed week.

b) Provide a detailed description of all works actually completed to date and revision to the project schedule, required, which shall reflect changes in the critical path since the date of the last revision.

c) Identify issues and problems requiring action by the BHEL , Consultant or Contractor including issues of conflicting priorities.

d) Identify the problems encountered or anticipated together with steps taken for recommended for their correction

e) Provide a forecast of the work to be accomplished in the next week.


f) List the Contractor's equipment and work force; evaluate the adequacy of working methodology & resources employed by the contractor and make recommendations thereto.

iii. The consultant will also prepare quarterly progress reports on physical and financial progress of the project and furnish these to BHEL. Summarizing the construction activities indicating among other things, disbursement, accomplishment, activities, contract changes, claims or disputes or any other substantive matters having an effect on the amount, cost and progress of the work.

iv. Upon completion of the project the Consultant will prepare the Project Completion Report as per requirements.

**1.6 Delay:** If there is any delay in Project, due to negligence or bad turnout of the consultant in monitoring of works ,the Consultant is liable for paying penalty as per contractual terms (at the time of contract ).

**2. Completion Period :** All the works are required to be completed within the stipulated days specified in the contract after the commencement of work by the Contractors:

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### 3. Eligibility/Qualification Criteria

- Firm must have minimum of 5 years of working experience on projects of Grid interactive Solar Power projects ,electrical works of Thermal/hydro/industrial plants, civil works .
- Firm must have provided consultancy services over the last 3 years of at least 2 SPV projects on EPC basis including Supervision of testing & commissioning of SPV projects.
- Firm shall have sound financial background proportional to the magnitude of work involved. Duly supported by reports, on financial standing of consultant such as balance sheets inter alia, assets and liabilities certified by an auditor along with auditor's report for last three financial years.
- Firm must have in his employment, capable key personnel with related expertise and knowledge/ experience. Documentary evidence to this effect including authentic salary slips of the key personnel shall be submitted with the proposal. Salary slips should be genuine and signed by the authorized representative of the firm as well as concerned key person.

### 4. Documents Establishing Qualification

To prove his qualification for award of Contract, Firm shall provide the following information along with documentary evidence in detail:


- The background and experience of the firm including authenticated list of current agreements and other supporting documents of past and present works of a nature similar to this EOI Requirements in the last 5 years.
- The detailed approach and methodology along with activity-wise time schedule proposed for carrying out the work as mentioned under the scope of work including other detailed information as deemed relevant.
- The name, qualifications and professional experience of key personnel to be assigned to the project. Such key personnel shall be employed with the consultant. Documentary evidence to this effect including authentic salary slips of the key personnel shall be submitted with the proposal. Salary slips should be genuine and signed by the authorized representative of the firm as well as concerned key person.

### 5. Housing; and Office Facilities

- The Consultant shall establish their project office near the Client's office. The Construction/Resident Manager and field engineers will maintain Field Office/Camp(s) at the site(s).
- The Consultant shall make their own arrangements to furnish their offices. They shall provide cost estimates and details of their requirement in this respect under Direct Cost in their proposal.

**6. Transport :** Consultants shall arrange the vehicles themselves. Operation and maintenance of Vehicles will be covered in the direct cost of the Consultant.

**7. Taxes and Duties :** The payment of Taxes, Duties, Fees and other impositions as may be levied under the applicable law, in respect of the Consultant and their personnel shall not be the responsibility of Client.

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## 8. Key Personnel

**8.1** The Consultancy Team shall consist of the following key personnel who shall discharge their respective responsibilities:

- a. Team Leader
- b. Civil Engineer
- c. Electrical engineer

Key Personnel must fulfil the Conditions of Eligibility specified below:

### Team Leader :

Graduate Electrical Engineer : Should have experience of working at Techno Managerial position including but not limited to design, scrutiny of drawings and inspection/test reports of the PV project. He will be guiding the team for successful completion of the project on the agreed schedule.

### Civil Engineer

Graduate Civil Engineer, should have experience in design and execution of civil foundations of buildings , MMS structures and electrical equipment foundations, Sound knowledge on road works, drains etc.


### Electrical Engineer (s)

Graduate Engineer/diploma with experience in the field of installing and commissioning of Invertors, Transformers , Breakers, switchyard equipments, SCADA transmission line equipments etc. Should be familiar with the best practices followed in the industry in the field of equipment installations, cable laying and be familiar with relevant Indian standards.

These nominated Key Personnel shall have all other supervisory staff (the support staff) working under them to carry out the construction supervision assignment of the scope of work. This may vary from site to site or project size and to be decided based on project requirement .

**8.2** The estimated total man-months for the project ( of different rating ) for completion of work shall be determined by the consultant keeping in view the aforementioned tasks and also based on their experience in already executed projects which are similar . **The breakup of man months for various categories allocated for the project shall be provided. The total man-months shall include key personal and support personnel of Consultant.**

**The cost to company may be furnished in a tabular format indicating the various charges considered per man month and furnished in similar lines for all personnel considered in the team for various sizes of plant like 1MW,5MW,10MW,20MW and so on.** The bidder has to indicate clearly the roles assigned to various personnel considered in the team for each rating of the PV plant. All rates indicated will be exclusive of taxes as applicable to be indicated separately. The rates quoted will be used for arriving at “cost to BHEL” .

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Vendor/Contractor/consultant to furnish all details in BHEL furnished format covering the following details.

[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)

- Company profile & organizational information
- Ownership information
- Registration particulars
- Manpower
- Other particulars.
- Bank details of the Company
- Quality Systems
- Financial Information for the previous 3 years or from the date of commencement operation whichever is later.
- Work Experience in last 5 years or from the date of commencement of 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 response to this EOI to be addressed to AGM-SC&PV/PCG, BHEL, Electronics Division, Mysore Road, Bangalore-560026. The last date for receipt of applications in sealed cover is 19/10/2016, 13:00Hrs.

## EVALUATION

- BHEL-EDN will be evaluating the Vendor/Contractor/consultant on all the parameters above and shortlist based on a ranking methodology. BHEL shall intimate the shortlisted vendors/contractors/consultant 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.
- Further procurement and tendering process shall be as per BHEL policy and guidelines.
- The empanelment will be initially for a period of 3 years. During this period the Vendor/Contractor/consultant 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.
- 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.

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