



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India Undertaking)
ELECTRONICS DIVISION

P.B. No. 2606, Mysore Road, Bangalore - 560 026

Gram : BHARATELEC
Telex : 0845-2436 BHCE IN
0845-8151 BHCE IN
Fax : 080-6740137
RABMN : 404100000014
PHONE : 6998.....
(EPABX.NO.)

Websites: www.bheledn.com , www.bhel.com , www.tender.gov.in

TENDER NOTICE No.SLNMM90154 Dated 23.03.2007

BHEL Electronics Division has immediate requirements for supply of solar silicon wafers as per Technical specification and Quantity given below:

Material Description	Quantity /Annum in Nos
125 mm Pseudo Square CZ single (mono) crystal silicon wafer as per specification (PS-439-109)	30,00,000
125 mm Square Multi crystalline silicon wafer as per specification (PS-439-016)	10,00,000

Vendors and their authorized representatives who are capable of supplying the above mentioned material on regular basis are requested to send their quotation with brief company profile and present manufacturing capacities. For detailed information/Tender document please visit our websites indicated above.

Quotations should reach us on or before 09th May 2007 before 13:00 Indian standard Time (IST).

Received quotations will be opened on same day i.e. 09th May 2007 at New Engineering building, 2nd Floor, BHEL Electronics division, Bangalore, India at 13:30 I.S.T.

For further Clarification through Email: shankarnarayanan@bheledn.co.in,
☎ +91-80-26747487 & Fax No +91-80-267474904

(M S SHANKAR NARAYANAN)
SDGM/MM/SCPV



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India Undertaking)
ELECTRONICS DIVISION

P.B. No. 2606, Mysore Road, Bangalore - 560 026

Gram : BHARATELEC
Telex : 0845-2436 BHCE IN
0845-8151 BHCE IN
Fax : 080-6740137
RABMN : 404100000014
PHONE : 6998.....
(EPABX.NO.)

TERMS AND CONDITIONS OF TENDER

1. **Wafer manufacturers:** Bids are invited from wafer manufacturers and the authorized agents of the manufacturers. However the authorized agents of the wafers manufacturer have to submit the authorization letter in original letter head with signature and seal as proof of their agency. The specifications of the material required by us are as per Specification PS-439-109 Rev 00 for Single/ Mono crystalline Silicon wafer and specification PS-439-016 Rev 03 for Multi crystalline Silicon wafer
2. **Price:** The offer should clearly indicate unit rate per piece. Price should be submitted on FOB nearest International Airport basis/ BHEL, Bangalore (in case of indigenous suppliers). This will be firm price contract and no claims will be entertained on this account after acceptance of the tender or during the currency of the contract.
3. **The rate quoted in the tender shall remain valid for a period of six months from date of opening of the tender.**
4. **Taxes and duties:** Taxes and duties are to be indicated, if any only for indigenous manufacturer. In case it is not mentioned , all taxes and duties will be taken as NIL
5. **Insurance:** BHEL has marine general insurance policy for transit insurance.
6. **Delivery schedule:** The quantity of the tender is for the period of 12-24 months. The delivery shall start tentatively from June, 2007 onwards, with supply, at the rate of 2, 00,000-2,50,000 Nos wafer per month. Bidder shall indicate clearly their delivery schedule giving quantity, which they can deliver on monthly lot basis.
7. **Payment terms:** Our standard payment term is sight draft .The payment will be released on receipt of material at BHEL –EDN and acceptance of the lot .Preference will be given to such manufacturers who accept our standard payment term. No advance payment will be accepted.
8. **Pre-Inspection:** BHEL reserves the right to inspect the material at supplier works before despatch as per specifications and test protocols.
9. **Test report / Certificate:** a test report/ certificate must accompany all lots/ consignments from the manufacturer/ supplier indicating compliance with the BHEL required specification. Supplies without a test report/ certificate are liable for rejection by BHEL.



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India Undertaking)
ELECTRONICS DIVISION

P.B. No. 2606, Mysore Road, Bangalore - 560 026

Gram : BHARATELEC
Telex : 0845-2436 BHCE IN
0845-8151 BHCE IN
Fax : 080-6740137
RABMN : 404100000014
PHONE : 6998.....
(EPABX.NO.)

10. **Penalty:** BHEL at its discretion may enforce penalty for late delivery. Penalty of 0.5% per week subject to max of 10 % of the PO value for undelivered portion will be levied. Delivery date indicated in the purchase order shall be basis for penalty deduction..
11. **Licenses:** All export formalities including license, Government permissions or any other statutory clearance from their country of export as per regulations existing in the supplier's country shall be the responsibility of supplier.
12. **Validity:** Offers must be valid for **at least six months** from the date of opening of the technical bid of the tender.
13. **Submission of Tender:** Tender in separate sealed covers super scribing the tender number, name of the item and due date should be delivered at the Office of the Materials Management Group (SCPV), Bharat Heavy Electricals Limited, Electronics Division, Mysore Road, Bangalore-560026, Karnataka, India. Tenderer should be strictly submitted in two parts independently / separately in sealed covers (with both covers enclosed in).
14. **a) Technical bid:** shall contain technical details of offer with respect to BHEL specifications, deviations w.r.t specification, lead and delivery time, commercial terms (WITHOUT PRICE), and wafer capacity per annum. The offer shall also include list of supplies made to major customer in the world with qty for last three year.
15. **b) Price bid:** should contain only price in unit rate.
16. **Non-compliance of the above will lead to disqualification of the tender.** Last date of receipt of tenders is 09th May -2007 up to 1300 hrs IST. Any corrections/alterations in the tender are to be duly signed by the bidder. BHEL does not take any responsibility for delay in receipt or non-receipt or loss of tender(s) in transit.
17. **Opening of Tenders:** Tenders will be opened on 09th April 2007 at 1330 hrs. in presence of all attending bidders and or their representatives with authorization letter from their principal.
18. BHEL reserves the right to reject any or all tenders/bids received or accept any or all tenders/bids wholly or in part. Further, BHEL reserves the right to order a lesser quantity without assigning any reason(s) there of.
19. **Arbitration:** In case of a dispute related to the contract, **Executive Director of BHEL-Electronics Division & ISG, Bangalore, India**, shall be sole arbitrator. Proceedings of arbitration for this will be conducted in terms of relevant laws prevailing in India.



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India Undertaking)
ELECTRONICS DIVISION

P.B. No. 2606, Mysore Road, Bangalore - 560 026

Gram : BHARATELEC
Telex : 0845-2436 BHCE IN
0845-8151 BHCE IN
Fax : 080-6740137
RABMN : 404100000014
PHONE : 6998.....
(EPABX.NO.)

20. Conditional and un witnessed tenders, tenders containing absurd rates and amount, tender which are incomplete or otherwise considered defective and tenders which are not in accordance with tender conditions laid down by the accepting officer are liable for rejection.
21. BHEL will not be bound by any power of attorney granted by the tenderers or by changes in the composition of the firm made subsequent to the execution of the contract . They may however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the tenderer.
22. Qualification process: Technical bids of all tender shall be only opened on the due date mentioned. Offer of such of those tenderer who are technically acceptable will be eligible for price bid opening. The date and time of price bid opening of technically accepted tenderer will be intimated in writing by email or fax or by post by giving minimum reasonable time for attending the price bid opening. BHEL will intimate in writing by email / fax / post for tenderers whose offer is technically rejected after before opening the price bid (conclusion of the order only) . BHEL will not entertain any claims of technically rejected supplier and no explanation shall be made by BHEL.
23. Minimum criteria for acceptance: All original manufacturers of wafers shall be primarily considered for acceptance, subject to technical acceptance of offer. Offer made by the agents, traders not backed up the manufacturing information of their principal will be rejected. (However their offer will be considered subsequently later after clarification received from them and subject to technical acceptance by BHEL)
24. Total quantity of wafers may be distributed among one or more eligible/ accepted tenderer/s through the process of counter offer given to them on the basis of lowest offer received in the tender. The lowest bidder before negotiation shall be considered for 60% of the actual quantity at the time of ordering. Balance quantity shall be disturbed among two vendors at 20 % of quantity equally subject to acceptance of lowest price. In the event only of one supplier accepting the lowest offer , 100 % quantity shall be considered for ordering on the lowest tender subject to all term and condition being equal of the lowest bidder. Delivery and capacity is not a limiting constraint. Decision of BHEL is final



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India Undertaking)
ELECTRONICS DIVISION
P.B. No. 2606, Mysore Road, Bangalore - 560 026

Gram : BHARATELEC
Telex : 0845-2436 BHCE IN
0845-8151 BHCE IN
Fax : 080-6740137
RABMN : 404100000014
PHONE : 6998.....
(EPABX.NO.)

SPECIAL INSTRUCTIONS

1. Tender documents should be addressed to the following address with Tender notice NO SLNMM90154 dated 23.03.2007 and Due date 09th May 2007 should be indicated on the cover.

SDGM (MM-SCPV)
Bharat Heavy Electricals Limited
Electronics division
PB NO 2606, Mysore road,
Bangalore - 560026.

2. All entries in the offer should be bold typed. Erasing and over writing are not permitted. The tenderer concerned should duly sign all cancellations and insertions.

NOTE: THE OFFER SHALL BE SUBMITTED IN ENGLISH ONLY.

3. The unit rate should be quoted in figures as well as in words. In case of any difference in rates as quoted in figures or in words, the lower of the two will be taken as the tendered rate.
4. The tenderer should quote their lowest firm price valid for the duration and completion of the contract. . No enhancement of price will be allowed once the offer is accepted.
5. All suits in respect of this lie in the court of Bangalore India.
6. Tenderer are also requested to quote for trial order quantity of 5,000 Nos. and for 25,000 Nos. BHEL reserves the right for placement of trial quantity order which is subject to technically acceptance and qualification process.



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India Undertaking)
ELECTRONICS DIVISION
P.B. No. 2606, Mysore Road, Bangalore - 560 026

Gram : BHARATELEC
Telex : 0845-2436 BHCE IN
0845-8151 BHCE IN
Fax : 080-6740137
RABMN : 404100000014
PHONE : 6998.....
(EPABX.NO.)

TESTING AND PACKING METHOD

1. The supplier shall prepare and attach a test certificate along with each consignment confirming the technical specifications of the lot supplied.
2. The supplied wafers shall be within their physical dimensions and visual requirements. Inspection shall be carried out either in BHEL or at the supplier's works as per single sampling plan IS 2500 (Part I), Inspection level II and Acceptance Quality Level (AQL) of 0.65 % for visual inspections and IS 2500 (Part II), Inspection level IV and AQL of 0.65 % for dimensional and resistivity measurements.
3. If they are found to have non-conformances beyond the given AQL, the lot will be rejected.
4. Wafers shall be kept sealed in polythene/polypropylene sachets, labeled with wafer manufacturer's name, quantity, wafer characteristics; further packing in thermo Cole/appropriate box with soft spacers on ends or in polyethylene packing to absorb handling/transit shocks with final packing in carton/wooden cases.