

ANNEXURE I

A. Capacity Details of Machines (LASER SYSTEM for PERC)

Manufacturing Capacity (Major Machines with Quantity)	Type of Major Machines	Quantity
Machines Supplied during last 2 Years (Year wise with quantity)	Scheduled Supply Period	Actual Supply Period
Outstanding Order Book Position(Type of Machines and Name of Customers)		
Liquidation plan of all machines including BHEL machines under consideration of ordering		

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

ANNEXURE-II

Details of the orders executed for last two years from the date of enquiry for the LASER SYSTEM for PERC:

S.No.	Details of the equipment/ system: Model number, capacity and other major details	Details of the customer: Name of the organization, Contact person: Name, E-mail, Phone Number, Fax	P.O. No & Date	Delivery Date	E &C Date		Present condition of the system/ equipment; (In continuous operation since dd/mm/yyyy must be mentioned)	Whether AMC was taken (Yes/ No)
					Start Date	End Date		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

SIGNATURE OF BIDDER WITH SEAL

UN-PRICED BID FORMAT FOR LASER SYSTEM FOR PERC – FOREIGN SUPPLIER

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 SUPPLIES

S. No.	Item Description	Units	Quantity	Unit Rate with Currency	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	$C=A \times B$	
1	Deliverable Items**					
1.1	A Laser system complete in all respects with laser source, optics, beam delivery system, vacuum chuck for holding silicon wafer, particle extraction system, safety interlocks and user friendly HMI/software for safe operation conforming to CE or equivalent standard.	Set up	1	Quoted	Quoted	
1.1.1	Vacuum chuck suitable for 156.75 mm X 156.75 mm psq c-Si and sq mc-Si wafers and thickness : 180 ±20 µm having marking field size should be Minimum 170 mm X 170 mm	Set	1	Quoted	Quoted	
1.1.2	At least two laser sources to cater all the following combinations, suitable for PERC processing: Pulse duration---Wavelength-----Power a. ns regime---IR -----≥ 15 W b. ns regime---Green -----≥ 15 W c. ps/fs regime---UV, IR and Green---≥ 3 W • Spot size 30-70 or 40-80 microns	Set	1	Quoted	Quoted	
1.1.3	Two work stations	Set	1	Quoted	Quoted	
1.1.4	Beam delivery unit as mentioned in the specifications	Set	1	Quoted	Quoted	
1.1.5	Power meter	Set	1	Quoted	Quoted	

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

1.1.6	HMI and software for recipe driven operation compatible with engineering drawing software. Software controlled Laser power, pulse duration, scan speed etc.	Set	1	Quoted	Quoted	
1.2	Accessories					
1.2.1	Spare parts package for one year operation	Set	1	Quoted	Quoted	
1.2.2	Maintenance kit	Set	1	Quoted	Quoted	
1.2.3	Complete set of auxiliaries for installation of the set up	Lot	1	Quoted	Quoted	
1.3	Spares			Quoted	Quoted	
1.3.1	Spares for one year of trouble free operation	Lot	1	Quoted	Quoted	
1.4	Other (Miscellaneous charges)					
1.4.1	Packing and Forwarding charges	Lot	1	Quoted	Quoted	
1.4.2	Sub total (EXW Price)					
1.4.3	Any other Charges like Export Clearance Charges etc.	Lot	1	Quoted	Quoted	
1.4.4	FOB (Nearest Gateway SeaPort) Charges	Lot	1	Quoted	Quoted	
1.4.5	CFR Charges (Mumbai/ Nhavasheva/ Chennai seaport/ BHEL ASSCP Gurugram)	Lot	1	Quoted	Quoted	
1.4.6	Sub Total, CFR-India Seaport			Quoted	Quoted	
1.5	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
1.5.1	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL			BHEL	BHEL	
1.5.2	Insurance (BHEL), (INR)			BHEL	BHEL	
1.5.3	Customs duty (BHEL), (INR)	%	1	BHEL	BHEL	
1.5.4	Local Transport, India seaport to BHEL Stores (BHEL) for CFR-Mumbai/ Nhavasheva/ Chennai seaport shipment, (INR)	Lot	1	BHEL	BHEL	
1.5.5	Loading and Un-Loading Charges at India seaport and BHEL ASSCP stores, (INR)	Lot	1	BHEL	BHEL	

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

1.5.6	Sub Total, imports (Delivery to BHEL ASSCP Stores), (1.5.1 to 1.5.5), (INR)					
1.6	If there is/are any supply Sourced from India that are certified by OEM, they have to be quoted in Indian currency on FOR-BHEL ASSCP Stores basis only, with order placement address in India					
1.6.1	Please specify, item-wise.	Lot	1	Quoted	Quoted	
1.6.2	Taxes/duties, IGST	%	1	Quoted	Quoted	
1.6.3	Sub total(Delivery to BHEL ASSCP Stores), indigenous					
1.6.4	Total, (Imports + Indigenous)					

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

2.0 SERVICES

S. No.	Item Description	Units	Quantity	Unit rate with Currency	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
2.0	Applicable Service outside India to be quoted in foreign Currency.					
2.1	Pre-despatch inspection at OEM works	Lot	1	Quoted	Quoted	
2.2	IGST for Service to BHEL account			BHEL	BHEL	
2.3	Landed cost (2.1 + 2.2)					

3.0 Training/ E&C, Demonstration, etc.

3 (a)	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor, to be quoted in foreign Currency.					
S. No.	Item Description	Units	Quantity	Unit rate with Currency	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	
3.4	IGST for Service to BHEL account			BHEL	BHEL	

Note: Withholding tax will be deducted as per Income tax act 1961, India and DTAA agreement. In case of non-acceptance of deduction of withholding tax, the offer will be rejected.

Alternately

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

3 (b)	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor's India Office Engineer/ Indian Agent / Distributor in India, to be quoted in Indian Currency					
S. No.	Item Description	Units	Quantity	Unit Rate, INR (Rs.)	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	
3.4	IGST for Service	%		Quoted	Quoted	

Note: Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and GST no.. GST for Service shall be released on submission of proof of remittance.

4.0 Indian agency commission is included in the price quoted: _____% (please specify the line item / items). Please attach Agency agreement copy.

**** Items may be quoted in same format only as per actual nomenclature and part numbers with quantity and unit price at appropriate location. All columns to be filled. If any item does not carry any value, it must be mentioned as zero ("0").**

Actual taxes/ rates as applicable at the time of placement of Purchase Order

Note:

1. This Un-Price bid format should be submitted along with Techno-Commercial Bid.
2. **TERMS OF DELIVERY:**
 - A1) CFR – MUMBAI / Nhavasheva Seaport / Chennai Seaport. Insurance @1% (Supplier's seaport to BHEL ASSCP Stores, Gurugram) + local transport charges (Mumbai / Nhavasheva / Chennai Seaport to BHEL ASSCP Stores, Gurugram) based on weight/dimensions furnished by the supplier in the tender shall be added for landed cost evaluation.
 - A2) CFR-BHEL ASSCP Gurugram, India. Insurance @1% (Supplier's seaport to BHEL ASSCP Stores, Gurugram) shall be added for landed cost evaluation.
3. Unit rate of spares shall have validity of 5 years post stipulated warranty period.
4. If there is/are any local supply/ service(s) provision that are certified by OEM, they have to be quoted in Indian currency only.
5. Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

6. All the Non-resident of India either individual or company as defined under Indian Income tax act 1961, who are providing services of technical in nature like erection & commissioning, training etc in India are subject to withholding tax on the payments made to them. The technical bidders from countries for which DTAA agreement exist are required to submit the following documents:
 - (a) PAN Copy (Permanent Account Number allotted to foreign vendor in India which is referenced for withholding tax OR Form 10F for Current Year disclosing the Company's Name, e-mail ID, Contact Number, address in the country of residence, Tax Identification Number and Tax Residency Certificate.
 - (b) While determining the rate of tax (when DTAA agreement exist) the lower of the two shall be considered:
 - Rate as per Withholding Tax Provisions of India
 - Rate as per DTAA (Double Taxation Avoidance Agreement between the Country of OEM and India
 - In case of foreign vendor where DTAA agreement does not exists, the rate as per Indian Income Tax Provisions will attract.
7. Rates to be quoted in figures with corresponding words.
8. Vendor's undertaking: I/We have read and understood the NIT (Notice Inviting Tender) terms and conditions.

SIGNATURE OF BIDDER WITH SEAL

UN-PRICED BID FORMAT –PRE-DESPATCH INSPECTION (PDI)
CHARGES AT OEM WORKS

Pre-Despatch Inspection charges* (per day basis)	For three BHEL Engineers (To be quoted as % of basic equipment value)	Currency
1st day	Quoted	Quoted
2nd day	Quoted	Quoted
3rd day	Quoted	Quoted
4th day	Quoted	Quoted
5th day	Quoted	Quoted

* Rows may be added/ deleted as required, according to PDI schedule

NOTE:

- Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
- Travel and hospitality for BHEL engineers will be to BHEL's account.
- Detailed training at OEM works / factory has to be provided by factory engineer to BHEL officials on working of all modes of the equipment along with the accessories.
- Training should also be provided on safety features, task to be performed in case of emergency, etc.
- Detailed training schedule must be submitted along with the bid
- The above training charges at actuals, shall be released after completion of E&C along with 20% supply value stage payment.
- All Offers shall be evaluated for the training charges quoted for the total no. of days. However, payment shall be released on actual number of days of training undergone by BHEL Engineer(s) at supplier's (OEM's) works.
- In respect of any taxable services provided or agreed to be provided by any person who is located in non-taxable territory and received by any person located in the taxable territory, IGST for Service at the prevailing rate of 18% is to be borne by the service receiver. The same shall be considered for evaluating the landed cost
- In respect of foreign vendor, as per Indian Income tax act 1961, a sum of 10% has to be recovered as withholding tax and remitted to the revenue authorities, and necessary recovery certificate shall be issued to that effect. In case if the vendor is non accepting to bear the withholding tax in line with provisions of Indian Income tax act 1961, the amount of tax payable will be grossed up with the amount quoted by the vendor for arriving at the landed cost, as per illustration attached. The present rate is 10%

SIGNATURE OF BIDDER WITH SEAL

ANNEXURE-VI

UN-PRICED BID FORMAT
SERVICE ANNUAL MAINTENANCE CHARGES (AMC)
(NON COMPREHENSIVE TYPE, SPARES EXCLUDED)

AMC charges after stipulated Warranty for	To be quoted as % of Basic Equipment Value	Currency
1 st Year	Quoted	Quoted
2 nd Year	Quoted	Quoted
3 rd Year	Quoted	Quoted

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares.
- b) If the AMC Order is to be placed on Supplier's Indian office/ Authorized Service provider/Agency in India (certified by OEM), then order shall be placed in INR (Rs.) with exchange rate as specified elsewhere in the tender. No revision of AMC charges in INR on account of exchange rate variation or revision of prices by OEM is applicable.
- c) During AMC service, 2 routine visits per a year, each visit shall include general service and maintenance, calibration (if any), etc. and breakdown visits (as and when required) have to be made for ensuring continuous operation of the system/ machine
- d) The service personnel should report within 3 days for attending the problem during emergency visit as a part of AMC.
- e) All software upgrades have to be provided free of cost during AMC period.
- f) If during the AMC period there is any breakdown of the equipment for a duration beyond 7 days from the date of reporting, AMC period will be extended by that duration. This should be complied by the vendor
- g) The AMC charges will be paid on half-yearly basis after completion each half year of the AMC service period and with submission of service report along with the original invoice as per the terms and conditions of Letter Order during AMC period. These charges will be paid within 30 days from date of submission of service report and original invoice.
- h) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- i) AMC Charges quoted for the total number of years shall be considered for landed cost comparison
- j) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- k) AMC Charges quoted for the total number of years shall be considered for landed cost comparison.
- l) Rates to be quoted in figures with corresponding words.
- m) Supplier's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF BIDDER WITH SEAL

PRICE BID FORMAT FOR LASER SYSTEM for PERC – FOREIGN SUPPLIER

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 SUPPLIES

S. No.	Item Description	Units	Quantity	Unit Rate with Currency	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1	Deliverable Items**					
1.1	A Laser system complete in all respects with laser source, optics, beam delivery system, vacuum chuck for holding silicon wafer, particle extraction system, safety interlocks and user friendly HMI/software for safe operation conforming to CE or equivalent standard.	Set up	1			
1.1.1	Vacuum chuck suitable for 156.75 mm X 156.75 mm psq c-Si and sq mc-Si wafers and thickness : 180 ±20 µm having marking field size should be Minimum 170 mm X 170 mm	Set	1			
1.1.2	At least two laser sources to cater all the following combinations, suitable for PERC processing: Pulse duration---Wavelength-----Power a. ns regime---IR -----≥ 15 W b. ns regime---Green -----≥ 15 W c. ps/fs regime---UV, IR and Green---≥ 3 W • Spot size 30-70 or 40-80 microns	Set	1			
1.1.3	Two work stations	Set	1			
1.1.4	Beam delivery unit as mentioned in the specifications	Set	1			
1.1.5	Power meter	Set	1			

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

1.1.6	HMI and software for recipe driven operation compatible with engineering drawing software. Software controlled Laser power, pulse duration, scan speed etc.	Set	1			
1.2	Accessories					
1.2.1	Spare parts package for one year operation	Set	1			
1.2.2	Maintenance kit	Set	1			
1.2.3	Complete set of auxiliaries for installation of the set up	Set	1			
1.3	Spares					
1.3.1	Spares for one year of trouble free operation	Lot	1			
1.4	Other (Miscellaneous charges)					
1.4.1	Packing and Forwarding charges	Lot	1			
1.4.2	Sub total (EXW Price)					
1.4.3	Any other Charges like Export Clearance Charges etc.	Lot	1			
1.4.4	FOB (Nearest Gateway SeaPort) Charges	Lot	1			
1.4.5	CFR Charges (Mumbai/ Nhavasheva/ Chennai seaport/ BHEL ASSCP Gurugram)	Lot	1			
1.4.6	Sub Total, CFR-India Seaport					
1.5	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
1.5.1	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL			BHEL	BHEL	
1.5.2	Insurance (BHEL), (INR)			BHEL	BHEL	
1.5.3	Customs duty (BHEL), (INR)	%	1	BHEL	BHEL	
1.5.4	Local Transport, India seaport to BHEL Stores (BHEL) for CFR-Mumbai/ Nhavasheva/ Chennai seaport shipment, (INR)	Lot	1	BHEL	BHEL	
1.5.5	Loading and Un-Loading Charges at India seaport and BHEL ASSCP stores, (INR)	Lot	1	BHEL	BHEL	

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

1.5.6	Sub Total, imports (Delivery to BHEL ASSCP Stores), (1.5.1 to 1.5.5), (INR)					
1.6	If there is/are any supply Sourced from India that are certified by OEM, they have to be quoted in Indian currency on FOR-BHEL ASSCP stores basis only, with order placement address in India					
1.6.1	Please specify, item-wise.	Lot	1			
1.6.2	Taxes/duties, IGST	%	1			
1.6.3	Sub total(Delivery to BHEL ASSCP Stores), indigenous					
1.6.4	Total, (Imports + Indigenous)					

2.0 SERVICES

S. No.	Item Description	Units	Quantity	Unit rate with Currency	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
2.0	Applicable Service outside India to be quoted in foreign Currency.					
2.1	Pre-despatch inspection at OEM works	Lot	1			
2.2	IGST for Service to BHEL account					
2.3	Landed cost (2.1 + 2.2)					

3.0 Training/ E&C, Demonstration, etc.

3 (a)	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor, to be quoted in foreign Currency.					
S. No.	Item Description	Units	Quantity	Unit rate with Currency	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7

SIGNATURE OF BIDDER WITH SEAL

LASER system for PERC – Bid formats – Outside India (Foreign) Supplier – Foreign Currency

			(A)	(B)	C=A*B	
3.1	Erection and Commissioning	Lot	1			
3.2	Demonstration at site of installation	Lot	1			
3.3	Post-installation training	Lot	1			
3.5	IGST for Service to BHEL account					

Note: Withholding tax will be deducted as per Income tax act 1961, India and DTAA agreement. In case of non-acceptance of deduction of withholding tax, the offer will be rejected.

Alternately

3 (b)	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor's India Office Engineer/ Indian Agent / Distributor in India, to be quoted in Indian Currency					
S. No.	Item Description	Units	Quantity	Unit Rate, INR (Rs.)	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
3.1	Erection and Commissioning	Lot	1			
3.2	Demonstration at site of installation	Lot	1			
3.3	Post-installation training	Lot	1			
3.4	IGST for Service	%				

Note: Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and GST no.. IGST for Service shall be released on submission of proof of remittance.

4.0 Indian agency commission is included in the price quoted: _____% (please specify the line item / items). Please attach Agency agreement copy.

SIGNATURE OF BIDDER WITH SEAL

PRE-DESPATCH INSPECTION(PDI) CHARGES AT OEM WORKS

PDI charges* (per day basis)	For three BHEL Engineer (To be quoted as % of basic equipment value)	Currency
1st day		
2nd day		
3rd day		
4th day		
5th day		

* Rows may be added/ deleted as required, according to PDI schedule

SERVICE ANNUAL MAINTENANCE CHARGES (AMC), (NON COMPREHENSIVE TYPE, SPARES EXCLUDED)

AMC charges after stipulated Warranty for	To be quoted as % of Basic Equipment Value	Currency
1st Year		
2nd Year		
3rd Year		

NOTE FOR ANNEXURE – IV:

1. Rates to be quoted in figures with corresponding words.
2. Vendor's undertaking: I/We have read and understood the NIT terms and conditions

SIGNATURE OF BIDDER WITH SEAL