

ANNEXURE I

A. Capacity Details of Machine (PECVD 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		

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PECVD for PERC – Bid formats – Indian Supplier – Indian Currency

ANNEXURE-II

Details of the orders executed for last two years from the date of enquiry for the PECVD 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								

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UN-PRICED BID FORMAT FOR PECVD for PERC – INDIAN SUPPLIER

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

S. No.	Item Description	Units	Qty	Unit Rate	Currency (INR)	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7	13
			(A)	(B)		C=A*B	
1	Deliverable Items**						
1.1	PECVD tool for PERC as per item specifications with the following items:	Set up	1	Quoted	Quoted	Quoted	
1.1.1	Loading/ unloading and Process module for deposition of Al ₂ O ₃ / SiN _x dielectric layer on 156.75 mm X 156.75 mm Silicon solar cells with minimum throughput of 50 wafers/hr equipped with all necessary pumps, gas manifold and gauges	Set	1	Quoted	Quoted	Quoted	
1.1.2	Boat/carrier suitable for c-Si wafers to get desired throughput. 2 boats/carriers extra to be quoted	Set	1	Quoted	Quoted	Quoted	
1.1.3	Boat/carrier suitable for mc-Si wafers to get desired throughput. 2 boats/carriers extra to be quoted	Set	1	Quoted	Quoted	Quoted	
1.1.4	HMI and software for recipe driven operation with manual automatic and service mode	Set	1	Quoted	Quoted	Quoted	
1.2	Accessories			Quoted	Quoted	Quoted	
1.2.1	Silane gas with tubing, manifold and gas cabinet	Set	1	Quoted	Quoted	Quoted	
1.2.2	Ammonia gas with tubing, manifold and gas cabinet	Set	1	Quoted	Quoted	Quoted	

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1.2.3	Methane gas with tubing, manifold and gas cabinet	Set	1	Quoted	Quoted	Quoted	
1.2.4	Nitrous oxide gas with tubing, manifold and gas cabinet	Set	1	Quoted	Quoted	Quoted	
1.2.5	TMA with cabinet and vaporizer	Set	1	Quoted	Quoted	Quoted	
1.2.6	Gas abatement system	Set	1	Quoted	Quoted	Quoted	
1.2.7	Maintenance kit	Set	1	Quoted	Quoted	Quoted	
1.2.8	Complete set of auxiliaries for installation of the set up	Lot	1	Quoted	Quoted	Quoted	
1.3	Spares						
1.3.1	Spares for one year of trouble free operation	Lot	1	Quoted	Quoted	Quoted	
1.4	Other (Misc.) charges						
1.4.1	Packing and Forwarding charges	Lot	1	Quoted	Quoted	Quoted	
1.4.2	SubTotal						
1.4.3	GST	%	1	Quoted	Quoted	Quoted	
1.4.4	Sub total (EXW Price)						
1.4.5 a	Freight B1	Lot	1	Quoted	Quoted	Quoted	
1.4.5 b	Loading / Un-Loading Charges	Lot	1	Quoted	Quoted	Quoted	
1.4.5 c	Freight B2, for EXW, (BHEL)			BHEL	BHEL	BHEL	
1.4.5 d	Loading / Un-Loading Charges B2 (BHEL)	Lot	1	BHEL	BHEL	BHEL	
1.4.6	Insurance (BHEL)			BHEL	BHEL	BHEL	
1.4.7	Total Price (Delivery to BHEL ASSCP Stores)						
2.0	Pre-despatch inspection at OEM works	Lot	1	Quoted	Quoted	Quoted	
3.0	Erection and Commissioning at site/BHEL ASSCP						
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	Quoted	
	GST for Service						

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PECVD for PERC – Bid formats – Indian Supplier – Indian Currency

** 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. In case any Taxes/ Duties exempted, a self-declaration for the same may be attached to the offer along with support document.
2. The current procurement is under Government of India funded project. Concessional taxes/duties, if any, available to BHEL as on date of price bid opening shall be taken into account for evaluating landed cost.
3. Hence All offers shall be evaluated at concessional rates of duties in case the registration certificate is renewed or Government of India funded project concessions available, if any, on or before opening of price bid date or otherwise it shall be evaluated with quoted/prevaling rates as on date of price bid opening for landed cost comparison. However, all suppliers have to accept Concessional taxes/duties in case if the same is available to BHEL as on date of dispatch.
4. Suppliers are requested to quote on FOR BHEL ASSCP Stores, Gurugram. In case of EXW, Please specify the Works address.
5. This Un-Price bid format should be submitted along with Techno-Commercial Bid.
6. Unit rate of spares shall have validity of 5 years post stipulated warranty period.
7. Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
8. Rates to be quoted in figures with corresponding words.
9. Vendor’s undertaking: I/We have read and understood the NIT (Notice Inviting Tender) terms and conditions.

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UN-PRICED BID FORMAT – 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	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 training schedule**

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
- b) Travel and hospitality for BHEL engineers will be to BHEL's account.
- c) 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.
- d) Training should also be provided on safety features, task to be performed in case of emergency, etc.
- e) Detailed training schedule must be submitted along with the bid.
- f) All Offers shall be evaluated for the training charges quoted for the total no. of days. However, payment shall be released on actual no. of days of training undergone by BHEL Engineer(s) at supplier's works.
- g) The above training charges at actuals, shall be released after completion of E&C along with 20% supply value stage payment.
- h) Rates to be quoted in figures with corresponding words.
- i) Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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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) 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
- c) The service personnel should report within 3 days for attending the problem during emergency visit as a part of AMC.
- d) All software upgrades have to be provided free of cost during AMC period.
- e) 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.
- 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) 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.
- h) AMC Charges quoted for the total number of years shall be considered for landed cost comparison.
- i) Rates to be quoted in figures with corresponding words.
- j) Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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PRICE BID FORMAT FOR PECVD for PERC –INDIAN SUPPLIER

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

S. No.	Item Description	Units	Qty	Unit Rate	Currency (INR)	Total	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7	13
			(A)	(B)		C=A*B	
1	Deliverable Items**						
1.1	PECVD tool for PERC as per item specifications with the following items:	Set up	1				
1.1.1	Loading/ unloading and Process module for deposition of Al ₂ O ₃ / SiN _x dielectric layer on 156.75 mm X 156.75 mm Silicon solar cells with minimum throughput of 50 wafers/hr equipped with all necessary pumps, gas manifold and gauges	Set	1				
1.1.2	Boat/carrier suitable for c-Si wafers to get desired throughput. 2 boats/carriers extra to be quoted	Set	1				
1.1.3	Boat/carrier suitable for mc-Si wafers to get desired throughput. 2 boats/carriers extra to be quoted	Set	1				
1.1.4	HMI and software for recipe driven operation with manual automatic and service mode	Set	1				
1.2	Accessories						
1.2.1	Silane gas with tubing, manifold and gas cabinet	Set	1				
1.2.2	Ammonia gas with tubing, manifold and gas cabinet	Set	1				

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1.2.3	Methane gas with tubing, manifold and gas cabinet	Set	1				
1.2.4	Nitrous oxide gas with tubing, manifold and gas cabinet	Set	1				
1.2.5	TMA with cabinet and vaporizer	Set	1				
1.2.6	Gas abatement system	Set	1				
1.2.7	Maintenance kit	Set	1				
1.2.8	Complete set of auxiliaries for installation of the set up	Lot	1				
1.3	Spares						
1.3.1	Spares for one year of trouble free operation	Lot	1				
1.4	Other (Misc.) charges						
1.4.1	Packing and Forwarding charges	Lot	1				
1.4.2	SubTotal						
1.4.3	GST	%	1				
1.4.4	Sub total (EXW Price)						
1.4.5 a	Freight B1	Lot	1				
1.4.5 b	Loading / Un-Loading Charges	Lot	1				
1.4.5 c	Freight B2, for EXW, (BHEL)			BHEL	BHEL	BHEL	
1.4.5 d	Loading / Un-Loading Charges B2 (BHEL)	Lot	1	BHEL	BHEL	BHEL	
1.4.6	Insurance (BHEL)			BHEL	BHEL	BHEL	
1.4.7	Total Price (Delivery to BHEL ASSCP Stores)						
2.0	Pre-despatch inspection at OEM works	Lot	1				
3.0	Erection and Commissioning at site/BHEL ASSCP						
3.1	Erection and Commissioning	Lot	1				
3.2	Demonstration at site of installation	Lot	1				
3.3	Post-installation training	Lot	1				
	GST for Service						

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PRE-DESPATCH INSPECTION (PDI) CHARGES AT OEM WORKS

PDI charges* (per day basis)	For three BHEL Engineers (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

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