

**Annexure-I Rev-01****Pre-Qualifying Criteria for Resin Cast PTs upto 11 KV against Rate Contract for 1 year  
(PI No. 240942650)**

Sl. No.	Description of Requirement	Bidder to Furnish
1.	Bidder should be OEM	(i) Bidder to furnish OEM Certificate.
2.	Bidder should be approved in any of the Power Generating Central/State Govt./ PSU company or approved in any of the Central/State/PSU owned Refinery company as a supplier of Resin cast PTs upto 11 kV.	(ii) Bidder to furnish approval letter or approved vendor list (for Resin cast PTs upto 11 KV) from Power Generating Central/State Govt. /PSU company or Central/State/PSU owned Refinery company  OR  Bidder to furnish Invoices or any document establishing that Resin cast PTs (up to 11kV) has been supplied directly or indirectly to the Power Generating Central/State Govt. /PSU company or Central/State/PSU owned Refinery company by the supplier.
3.	Bidder must have supplied min. 230 Nos. Resin cast PTs in at least one of the last 5 Financial years ending 31st March'2024 or 31st Dec'2023 whichever is applicable.	Invoice copies in support of quantity supplied in any of the last 5 financial years OR List of Past supplies certified by practicing Chartered Accountant (With membership number and firm registration number).
4.	Bidder to offer Type Tested Indoor PTs only	Bidder to furnish (i) Lightning Impulse and (ii) Partial Discharge Type Test report of NABL Accredited Test lab or Govt. approved independent test lab within 7 years from date of techno commercial bid opening date for Indoor 1 Phase, 1 Pole Resin cast PTs upto 11 KV.

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FOR DETAILED TECHNICAL SPECIFICATION REFER PRODUCT STANDARD SG12913 REV.04 - PTS

TABLE : 1 - GENERAL TECHNICAL PARAMETERS FOR PTS

CLAU SE NO.	DESCRIPTION	BHEL'S REQUIREMENT			BIDDERS CONFIRMAT ION/ COMMENTS
1.0	TECHNICAL PARAMETERS	For 11KV Items	For 6.6KV Items	For 3.3KV Items	
1.1	System Voltage (3Phase, 50 Hz)kV	11	6.6	3.3	
1.2	Insulation level				
1.2.1	System highest voltage kV	12	7.2	3.6	
1.2.2	Power freq. withstand voltage (primary) kV Power freq. withstand voltage (secondary) kV	28/ 2.5	20 / 2.5	10/2.5	
1.2.3	Lightening Impulse withstand voltage kVp	75	60	40	
1.3	Insulation class kV/kVrms/kVp	12/28/75	7.2/20/60	3.6/10/40	
1.4	Continuous Over voltage factor	1.2 cont & 1.9 for 8 Hrs.			
1.5	Application	For mounting inside sheet steel cubicle			
1.6	Insulation class of PTs	B or better			

#### 1.1 SPECIAL REQUIREMENT

S.NO	REQUIREMENT	BIDDERS COMPLIANCE
1.1	In case of requirement by end customer Bidder shall be required to submit Type Test reports as per IS/IEC without any price or time implication to BHEL.	

TABLE : 2 - SPECIFIC TECHNICAL PARAMTERS PTs

IT. NO.	PT RATIO	1PH.1POLE/ 1PH.2POLE/ 3P(WITH HT FUSE)	BURDEN/ACCURACY			BHEL's drg. ref.	Remark/ Deviation
			WDG.I SEC.WDG	WDG.II SEC.WDG	WDG.III TERT. WDG		
01	Primary: 3.3 KV or 6.6 KV or 11 KV	1 PH , 1-POLE	Wdg-I Secondary: 110/√3V	Wdg-II Secondary: 110/√3V	Wdg-III Secondary: 110/3V	35210051218 Rev 07 (IT-1)	
			50VA, 0.2/3P	50VA,3P	50VA, 3P		
Bidders Confirmation							
02	Ratio Primary: 3.3 KV or 6.6 KV or 11 KV	1 PH , 1-POLE	Wdg-I Secondary: 110/√3V	Wdg-II Secondary: 110/√3V	-	35210051218 Rev 07 (IT-1)	
			100VA, 0.2/3P	100VA,3P	-		
Bidders Confirmation							

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ANNEXURE-A TO Rate Contract PI 240942650

REV.NO.00

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03	Ratio Primary: 3.3 KV or 6.6 KV or 11 KV	1 PH, 2-POLE	Wdg-I Secondary: 110V	-	-	35210051219 Rev. 06	
			50VA, 0.5/3P	-	-		
Bidders Confirmation							

**TABLE : 3**

3.0	CLIMATIC CONDITIONS	VENDOR'S COMPLIANCE
3.1	Ambient Air Temp. - -5°C (min) & 50°C (max.)	
3.2	Relative humidity - 10%(min) & 95%(max)	
3.3	Height above MSL - ≤ 1000 meters (consider suitable Altitude correction factor in Impulse withstand for height more than 1000 mtrs)	
3.4	Pollution Severity - Heavily polluted (with coal dust & Fly ash) & Highly corrosive environment.	
3.5	Seismic Coefficient - 0.3g	
3.6	Design Ambient Temp.- 50 Deg.C	

**TABLE:4**

4.0	PACKING AND SHIPPING	BHEL'S REQUIREMENT	VENDOR'S CONFIRMATION
4.1	Identification marking on PTs	Will be informed at ordering stage	

**ANNEXURE -D (SCHEDULE OF DEVIATIONS)**

Item no.	Current/Potential Transformers	Deviation in		
		Technical Parameters	Dimensional Drawing	Type Test
1				
2				

**NOTE:** IF NO DEVIATION IS MENTIONED IN THIS ANNEXURE THEN IT WILL BE CONSIDERED AS TOTAL COMPLIANCE TO OUR SPECIFICATION

**5.0 IMPORTANT NOTES**

5.1	VENDORS TO ENCLOSE COPY OF <b>SG12913 Rev. 04</b> DULY FILLED IN THE SPECIFIED FORMAT, FAILING WHICH THE OFFER MAY NOT BE CONSIDERED.	YES/NO
5.2	Vendor shall provide warranty for successful operation of PTs for 24 months from the date of supply at BHEL Bhopal or 18 months from the date of commissioning at site whichever is earlier.	YES/NO

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 Date : 01.06.2024  
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 Approved by : Murtaza Hussain  
 Date : 01.06.2024  
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