

CLAUSE NO.	TECHNICAL REQUIREMENTS				
1.01.11	(min.)- in normal mode for A4 size paper	24 ppm (B&W)	16 ppm (B&W)		
	3 Type	Heavy duty, at least 50000 pages/month	Heavy duty, at least 30000 pages/month	Heavy duty, at least 50000 pages/month	
	4 Resolution (black) (min.)	600 dpi	600 dpi	-	
	5 First page out time (with full graphic display)	=<1 min for color, <45 sec for BW	=<1 min for color, <45 sec for BW		
	6 Paper input capacity (min.)	500 sheets	500 sheets	Continuous paper feed	
	7 Additional features	Automatic Duplex Printing		With printer Stand & sound proof enclosure (<60 dB)	
	8 Paper sheets (1 ream = 500 sheets) with each printer	20 reams (A3)	20 reams (A4)	20 reams	(132 column fan-fold)
	9 Additional Cartridge/toner/ ribbon of each type as used in printer with each printer	1	1	100	
	Specification of PC				
The minimum requirement for PC shall be as below:					
CPU		Latest generation CPU			
SINGARENI THERMAL POWER PROJECT (2X600 MW) BOILER TURBINE GENERATOR PACKAGE		TECHNICAL SPECIFICATION SECTION-VI PART-B		ANNEXURE - IIIC-02G HMI HARDWARE	PAGE 8 OF 13

CLAUSE NO.	TECHNICAL REQUIREMENTS			
1.01.12	Main memory	1GB expandable to 4 GB		
	Drives	DVD read/write drive		
	Hard disk	80 GB		
	Monitor	19" Full Flat TFT, refresh rate min 75 Hz		
	Graphic Memory	16 MB		
	Communication port	2 serial plus, one parallel, 1 USB port, Dual 100 Mbps Ethernet		
	Expansion slots	3		
	Other Features	101 Keys Keyboard and Optical Mouse		
	UPS	1 no. on-line Intelligent UPS with 30 mins. Battery backup on machine load (for PC & its printer) and remote monitoring are to be provided for each PC.		
	Accessories	Industrial grade furniture (computer table & chair) for PC & its printer, as approved during detailed engineering.		
	Software	a General MS Windows latest, MS-Office, Microsoft Visual Studio, Adobe Acrobat, anti-virus McAfee or equivalent, etc.		
		b Application software - to suit project specific requirement		
	The list of PC stations, their location in plant and purpose shall be as per Appendix-I to Part-A (Annexure-I to Contract quantities for DDCMIS). All the PC stations shall be connected to Unit LAN/Station LAN.			
	It shall be possible to access any information of HMIPIS data base along with operator functionality (with General purpose rights as defined in table titled SECURITY LEVELS IN HMIPIS) like mimics, logs, trends etc. from the PC station given below. To achieve this, recreation of graphics, logs & other application need not be required. Also any modification etc done in any mimic etc. need not be separately done for these stations. Therefore suitable provisions (including adequate no of OWS license), if required shall be provided. However, normally the access will be for the purpose listed in Appendix-II to Part-A.			
	Specification for Lap-Top (Note-Book) PC Core 2 duo latest version or better network-ready lap-top PC with 15.4 inch wide			
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