

Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 19:00:00
Bid Opening Date/Time	20-07-2020 19:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	Southern Railway
Total Quantity	1
Item Category	ECG Machine
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

ECG Machine (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Certificates	Confirmity to standards	BIS	BIS
	Certification number and date	-	*
	Confirmity to safety of electromagnetic compatibility	IEC-60601-1-2:2001 (or equivalent BIS)	*
	Confirmity to safety standard	IS - 13450 / IEC60601-1-2005	*
Performance Parameters	Purpose	ECG machine is primary equipment to record ECG signal with interpretation which is required for recording and analyzing the waveforms with software.	ECG machine is primary equipment to record ECG signal with interpretation which is required for recording and analyzing the waveforms with software.
	Operating modes of ECG Machine	Automatic, Manual and Rhythm	*
	ECG machine should have ECG lead annotation facility	Yes	*
	Leads which is in ECG machine should be able to acquire simultaneously and interpret them	12	*
	Number of channels	3	3
	ECG machine should acquire lead ECG for both adult and paediatric patients	Yes	*
	The ECG machine should have facility to show lead fail indication	Yes	*
	The ECG machine should have facility to show lead reversal indication	Yes	*
	The ECG machine should have facility to show the impedance to	Yes	*

quality check of connection		
Acquisition time for ECG Machine in sec	10 sec	*
Digital sampling rate for Pacemaker spike detection	40000 s/sec/channel	*
Recording of digital sampling for pacemaker	1000 s/sec/channel	*
ECG machine should have real time colour backlit display of ECG waveforms with signal quality indication for each lead	Yes	*
ECG machine should have frequency filters	Artifact, AC and low and high pass frequency filters	*
Number of ECGs which can be store in ECG Machine	50-99	50-99
ECG machine should have full screen preview of ECG report for quality assessment checks prior to print	No	No
Type of inbuilt screen	TFT	TFT
Size of screen in inches	5	5
Display resolution of ECG machine in pixels	640 x 480	*
ECG machine should have interpretation facility of the amplitudes, duration and morphologies of ECG waveforms and associated rhythm for adult and pediatric patient	Yes	*
ECG machine should have alphanumeric keyboard for patient data entry	Hard keys	Hard keys
Size of printing paper	A4	A4
Resolution of digital	200 dpi x 500 dpi on 25	*

	array printer using thermal sensitive paper in ECG Machine in dpi	mm/sec speed	
	ECG machine report format	Report formats of 3x4; 6x2, Rhythm for up to selected leads, 12 lead extended measurement, 1 minute of continuous waveform data for 1 selected lead	*
	Provision of battery	Yes	Yes
	Battery capacity	50 ECG or 1 hour of continuous rhythm recording on single charge	50 ECG or 1 hour of continuous rhythm recording on single charge
	Connectivity to ECG Machine	LAN	LAN
	Storage on external portable memories	USB support	*
	The individual patient lead should be change without replacing the whole patient cable assembly	Yes	*
	Noise level in dba	30	*
	Weight of ECG Machine in Kg	2.5	*
	Frequency in Hz	300	*
	Availability of latest interpretation software	Yes	Yes
	Wireless acquisition module with RF technology	No	No
	System should have the dedicated software to download the ECG form machine in PDF format	No	No
	Warranty in years	3	3
	User and service manual of ECG Machine	Yes	*
Environmental Parameters	Operating temperature and humidity	temperature of 10-40 degree C and relative humidity of 15-90%	*
Trolley	Provision of trolley	No	No

	Material of Frame of trolley	No Trolley Provided	No Trolley Provided
	Material of Top of trolley	No Trolley Provided	No Trolley Provided
	Number of castors	No Trolley Provided	No Trolley Provided
	Number of brakes for castors	No Trolley Provided	No Trolley Provided
	Height of trolley in inch	No Trolley Provided	No Trolley Provided
	Provision of railing for top shelf	No Trolley Provided	No Trolley Provided
	Availability of suitable cable arm having holder for ECG cables when not in use	No Trolley Provided	No Trolley Provided
Power Supply	Power input	220-240 V AC, 50 Hz fitted with Indian plug	*
	Length of power cable in meter	3	*
	Resettable over current breaker shall be fitted for protection	Yes	*
Accessories	ECG Machine 12 leads with interpretation	1	1
	Patient Cable	2	2
	Chest Electrodes Adult (set of Six)	1	1
	Chest Electrodes Paediatric (set of Six)	2	2
	Limb Electrodes	2 for adults and 2 for paediatric	2 for adults and 2 for paediatric
	Thermal paper for 500 patients	1 SET	1 SET
	Power cable for charging	Yes	Yes
	Supplied with Clip electrode	Yes	Yes
Reports	Manufacturer shall be ISO certified	ISO 13485	*
	ISO certification details such as date and number	-	*
	Availability of test	No	No

report from govt/ NABL/ILAC accredited lab covering all parameters		
Test report number , Incase test reports not available , put NA	-	*
Test report date, Incase test reports not available , put NA	-	*
Name of test lab , Incase test reports not available , put NA	-	*
Address of test lab , Incase test reports not available , put NA	-	*
Copies of all test reports to be provided to buyer on demand at time of supplies ,	Yes	Yes

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Sivakami M	600023,Office of the Medical Director Southern Railway Headquarters Hospital Perambur Chennai-600023	1	15

Bid Specific Additional Terms and Conditions

1. Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide AMC Service for next 5 years for the offered products at the rate not more than 5 % of contract price per annum. Buyer reserves the right to enter into an AMC agreement (covering preventive maintenance and servicing)with the Successful Bidder / OEM after expiry of the Warranty period at rate as mentioned above and the payment for the AMC charges would be made Quarterly after rendering of the AMC Services of the relevant AMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the AMC contract when called upon by the buyer. The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 5% of total AMC value valid up to AMC period plus 2 months (if there is no other claim). (Undertaking of acceptance to be uploaded with bid).

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---