पनवेल महानगरपालिका

वैदयकीय आरोग्य विभाग

कार्यालय :- देवाळे तलावाच्या समोर, गोखले हॉलच्या शेजारी,

पनवेल -४१०२०६.

दुरध्वनी कार्यालय : ०२२ - २७४५८०४०/४१/४२
फॅक्स नं. : ०२२- २७४५२२३३
उपायुक्त कार्यालय : ०२२ - २७४५५७५१
आयुक्त कार्यालय : ०२२- २७४५२३३९
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जा.क्र./पमपा/वै.आ.वि/ १७५६ /सन २०२६-२७

दिनांक:20/ ११ /२०२६

जाहिर सुचना

पनवेल महानगरपालिका, राष्ट्रीय आरोग्य अभियान अंतर्गत १५ नागरी प्राथमिक आरोग्य केंद्र, ०९ नागरी आरोग्यवर्धिनी उपकेंद्र व ०२ आपला दवाखाना व पालिका स्तरावरील ०१ आरोग्य केंद्र अशी २७ आरोग्य केंद्र कार्यरत आहेत. सदर आरोग्य केंद्राची कामकाजाची वेळ सकाळी १०.०० ते रात्री १०.०० वाजेपर्यंत असुन या केंद्रामध्ये रुग्णसेवेत दररोज सुमारे १०० रुग्ण सेवा घेत आहेत. तसेच शासन स्तरावरुन पनवेल महानगरपालिकेकरिता नव्याने ०५ आपला दवाखाना मंजुर करण्यात आला आहे. सद्यस्थितीत या कार्यरत नागरी प्राथमिक आरोग्य केंद्रामध्ये ECG सुविधा उपलब्ध नसल्याने रुग्णांच्या हदयविकाराचे प्राथमिक निदान करता येत नाही. या करिता पालिका स्तरावरुन ३२ आरोग्य केंद्राकरिता अत्याधुनिक ECG मशिन खरेदी करण्यास प्रस्तावित आहे. सदर ECG मशीन खरेदी करण्याकरिता येणाऱ्या खर्चाचे अंदाजपत्रक बनविण्यासाठी खालील नमुद केलेल्या बाबीकरिता दरपत्रके मागविण्यात येत आहेत.

अ.क्र	कामाचे नाव	मुदत
१.	पनवेल महानगरपालिका अंतर्गत कार्यरत नागरी प्राथमिक आरोग्य केंद्र, आरोग्यवर्धिनी उपकेंद्र, व आपला दवाखाना अंतर्गत रुग्णांमधील हृदयविकाराचे प्राथमिक रोगनिदान करणेकामी अत्याधुनिक ECG Machine खरेदी करणेकामी बाजारभाव (Market Rate) मागविणे.	दिनांक २०/ ११/२०२६ ते दिनांक २७/११/२०२६ दुपारी ३.०० वाजेपर्यंत.

कामाचा तांत्रिक तपशिल खालीलप्रमाणे: (Technical Specification)

PART A – ECG MACHINE (ACQUISITION UNIT)		Quantity	Rate
General			
A.1	The ECG machine shall be a compact, portable, battery-operated 12-lead resting ECG acquisition unit that can be easily carried to wards, casualty, OPD and camp sites.	01	Rs.
A.2	Weight shall be less than 1.5 kg to ease portability		
A.3	The machine shall operate independently of mains supply (free of erratic electricity supply), so that it can be used in any location within and outside the hospital		
A.4	The machine shall connect to the Tablet (Part B) via USB and/or Bluetooth for ECG acquisition, real-time display and digital transmission of data to the cloud.		
Technical Parameters			

A.5	Shall record ECG with simultaneous acquisition of all 12 standard leads (I, II, III, aVR, aVL, aVF, V1–V6) through a 10-electrode patient cable.		
A.6	ECG sampling frequency shall be minimum 500 samples/second/channel; A/D resolution ≥ 16 bit.		
A.7	Frequency response 0.05 Hz – 150 Hz or better; CMRR ≥ 100 dB; input impedance ≥ 10 MΩ.		
A.8	Shall record 12-lead resting ECG of 10-second duration as a standard feature.		
A.9	Shall have digital filters for AC mains (50 Hz) interference, baseline wander and muscle (EMG) artefact.		
A.10	Shall have pacemaker pulse detection.		
A.11	The ECG machine shall be defibrillator proof (defibrillation protection as per IEC 60601-2-25).		
A.12	Shall provide visual indication of unconnected / disconnected leads		
A.13	Shall provide visual indication of signal quality, noise and signal stabilisation before recording.		
Patient Data Entry			
A.14	Shall have a built-in QWERTY keyboard to enter patient demographics such as Patient Name, ID, Contact Number, Age, Gender, complaints and medical history.		
A.15	The built-in keyboard shall use mechanical touch switches that can be operated with gloved or wet hands.		
A.16	Shall have the ability to enter patient Name, ID, Contact Number, Age and Gender through Barcode / QR code scanning.		
Printing, Power & Environment			
A.17	Shall have the ability to connect with a printer (Bluetooth / Wi-Fi) for printing of ECG reports on A4 paper.		
A.18	Shall have an inbuilt rechargeable battery capable of minimum 100 ECG recordings on a single full charge, with battery status / low battery indication. Charger to be supplied.		
A.19	Operating temperature: 0 °C to 50 °C. Transport and storage temperature: 0 °C to 50 °C.		
Accessories (per system)			
A.20	ECG machine – 01 No.; ECG patient cable / probe (10-lead, original OEM) – 01 No.; reusable limb electrodes – 01 set;		
A.21	USB connecting cable for Tablet – 02 Nos.; Bluetooth / Wi-Fi printer – 01 No.		
Certifications & Standards			
A.22	Shall be US-FDA / CE / CDSCO certified from approved notified bodies only, and shall hold valid CDSCO licence under Medical Device Rules, 2017.		
A.23	Manufacturer shall have ISO 13485 and ISO 27001 certification.		
A.24	Electrical safety shall conform to IEC 60601-1 General Requirements and IEC 60601-2-25 resting		

	electrocardiogram performance requirements. Test reports to be provided.		
PART B – TABLET (DISPLAY, CONTROL & TRANSMISSION UNIT)			
B.1	Each ECG system shall be supplied with one dedicated Android Tablet as an integral component of the ECG system (not a separate item), pre-loaded and configured with the ECG application by the bidder.		
B.2	Operating system: Android 12 or above, with security updates for the warranty period.		
B.3	Display: minimum 8-inch diagonal colour touch-screen (resolution ≥ 1280 × 800).		
B.4	Minimum 4 GB RAM and 64 GB internal storage.		
B.5	Shall provide real-time display of all 12 channels of ECG data.		
B.6	The ECG application shall allow patient registration, viewing of reports and search of previous ECGs of the same patient.		
B.7	Shall store ECGs locally when network is unavailable and auto-upload to the cloud server once connectivity is restored.		
B.8	Shall work on low-bandwidth networks (2G / 3G / 4G / Wi-Fi).		
B.9	ECG reports shall be printable through the supplied printer and shareable as PDF.		
B.10	Tablet charger – 01 No.		
PART C – AI-BASED ECG INTERPRETATION			
AI Interpretation			
C.1	The system shall provide automated ECG interpretation using a CDSCO-certified Artificial Intelligence (AI) / machine-learning algorithm on a secure cloud platform, triggered automatically on upload without any additional clinician action.		
C.2	The AI shall detect, at minimum: sinus rhythm, bradycardia / tachycardia, atrial fibrillation / flutter, supraventricular and ventricular arrhythmias, premature beats, AV blocks, bundle branch blocks, STEMI, ST-T changes / ischaemia, old infarct, chamber hypertrophy / enlargement, prolonged QT and paced rhythm.		
C.3	Age and gender specific interpretation shall be provided for every ECG.		
C.4	ECG reports shall include measurements of Atrial Rate, Ventricular Rate, QRS duration, QT, QTc, PR interval and P-R-T axis.		
C.5	The AI shall automatically extract and annotate the median wave for each lead, with highlights of problematic segments.		
C.6	The reporting system shall be capable of correction of noise and baseline wander.		
Critical Alerts & Mobile App			
C.7	Priority alerts with high-intensity alarm shall be provided for critical cases (e.g., life-threatening arrhythmias).		

C.8	A mobile application for hospital doctors shall provide access to all ECGs done on the hospital's devices, notification for each incoming ECG, automatic case opening for critical ECGs, and chat / video call with the reporting expert.		
Cloud, Data Security & Dashboard			
C.9	Every ECG shall be stored on the cloud for a minimum of 3 years from the date of examination, or longer on written request of the hospital		
C.10	A web-based dashboard shall be provided showing ECG details, date / time, ECG graph, interpretation, diagnosis status, monthly usage report, filters and download of reports in PDF.		
C.11	ECG data shall be exportable in PDF or XML format.		
PART D Warranty			
D.1	12 Months (Warranty Period)		
CMC/AMC	**After warranty period 5 years CMC/AMC**	**Per Year**	**रु.**

Rates are all Inclusive Taxes.

१. सीलबंद दरपत्रके दिनांक २७/११/२०२६ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या आरोग्य विभागात स्विकारण्यात येतील.

२. प्राप्त झालेली दरपत्रके शक्यतो दिनांक २७/११/२०२६ रोजी दुपारी ३.३० (शक्यतो) वाजता उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.

३. पनवेल महानगरपालिका अंतर्गत कार्यरत नागरी प्राथमिक आरोग्य केंद्र, आरोग्यवर्धिनी उपकेंद्र, व आपला दवाखाना मध्ये अत्याधुनिक हवा निर्जंतुकीकरण यंत्रणा खरेदी करणेकामी बाजारभाव (Market Rate) मागविणेत येत आहे.त्याकरिता दर एकाच युनिटचे सादर करावेत.

४. अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.

(अभिषेक पराडकर)
उपायुक्त
पनवेल महानगरपालिका