

CH. PERVAIZ ELAHI INSTITUTE OF CARDIOLOGY, MULTAN

TECHNICAL COMPARATIVE STATEMENT FOR THE YEAR 2015.16

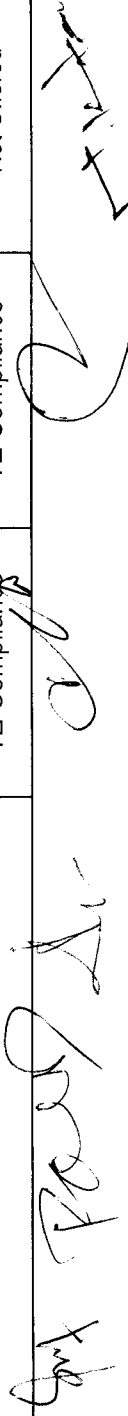
NAME OF EQUIPMENT: INVASIVE CARDIAC MONITOR WITH BIS, PART-C (QTY-05)

PRE-REQUISITES	M/S Shirazi Trading	M/S Vertex	M/S Total Technologies	M/S Amtronech
1 The quoted equipment must be manufactured in USA, EU or Japan only	China	USA / Germany	Singapore	Mexico
2 Specification (PART -C) QTY-05Nos.				
3 Model	Procare B-20	Infinity Delta	BIS Vista	Masimo Root with
4 Make	GE	Dragerwerk	Covidien	Masimo
5 Country of Origin: USA / Europe / Japan	China	USA / Germany	USA	USA / Mexico
6 Authorization	31.12.2015	31.12.2016	No detail provided	Yes
7 Certification: (FDA (510K) / CE / JIS)	FDA/CE	FDA/CE	FDA/CE	No detail provided
8 Warranty: 5 Years Comprehensive with parts & spare including backup services	5 Years	3 Years	5 Years	5 Years
9 OPERATING FEATURES & CHARACTERISTICS				
10 Screen size min 10" or more with touch screen coloured	10.4" but not touch	10.4" but not touch	Not Mentioned	10.1" TFT
11 ECG: (Cable Alligator Type) (OPTIONAL)				
12 Numeric heart rate	Numeric	Numeric	Not Offered	Not Offered
13 Waveform: Six wave form minimum, real time freeze ECG trace	6 waveform	8 waveform	Not Offered	Not Offered
14 3, 6 and 12 lead real time monitoring	3/5 lead	3/5 lead	Not Offered	Not Offered
15 Measuring range: 15 to 300bpm	30 to 300bpm	15 to 300bpm	Not Offered	Not Offered
16 5 and 10 lead each ECG cable with electrodes	3/5 lead	5/10 lead	Not Offered	Not Offered
17 Ability to detect Adult & Pediatric Heart rate range, QRS widths and amplitudes	TE Compliance	TE Compliance	Not Offered	Not Offered
18 NONINVASIVE BLOOD PRESSURE (NIBP): (Adult, Paeds, Neonates Cuff) (OPTIONAL)				
19 Method: Oscillometric principle	Oscillometric	Oscillometric	Not Offered	Not Offered
20 Numeric: Systolic, Diastolic and Mean Pressures	Systolic, DIA, MAP	Systolic, DIA, MAP	Not Offered	Not Offered
21 Ability to measure Adult & Pediatric B.P	Adult /Paes/neonates	Adult /Paes/neonates	Not Offered	Not Offered
22 Rising Cuff / continuous pressure display	Rising pressure	Rising pressure	Not Offered	Not Offered
23 Selectable auto inflate interval settings	Auto inflate	Auto inflate	Not Offered	Not Offered
24 TEMPERATURE (Rectal, Nasal, Skin Probes) (OPTIONAL)				
25 Numeric. Temperature selectable in 'C / 'F	Both C/F	Both C/F	Not Offered	Not Offered
26 Channels: 2 channels or more	2 Channel	2 Channel	Not Offered	Not Offered
27 Ability to measure Adult & Pediatric temperature range	Adult /Paes/neonates	Adult /Paes/neonates	Not Offered	Not Offered
28 PULSE QXIMETRY: (Adults, Paeds, Neonates Probes) (OPTIONAL)				

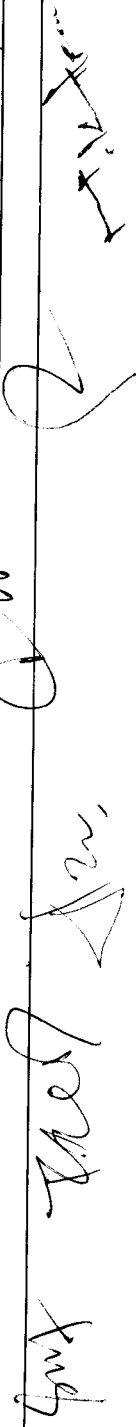




	PRE-REQUISITES	M/S Shirazi Trading	M/S Vertex	M/S Total Technologies	M/S Amtronech
29	Numeric: 0-100% Oxygen saturation measuring range	0 -100%	0 -100%	Not Offered	Not Offered
30	Masimo Technology/Other patent technology with motion tolerance	Masimo	Drager	Not Offered	Not Offered
31	Waveform: Plethysmograph pulse with pulse strength indication Sensor for Pediatrics & Adult Patients	Adult & Paeds	Adult & Paeds	Not Offered	Not Offered
32	RESPIRATION: (OPTIONAL)				
33	Sweep speed: 6.25, 12.5mm/sec.	6.25/12.5 mm/sec	6.25/12.5 mm/sec	Not Offered	Not Offered
34	Breath rate display and Settable Apnea Alarm.	TE Compliance	TE Compliance	Not Offered	Not Offered
35	RECORDER: (OPTIONAL)				
36	3 Channel Recorder for printing of ECG Waveforms	TE Compliance	TE Compliance	Not Offered	Not Offered
37	ECG Paper Roll (05)	TE Compliance	TE Compliance	Not Offered	Not Offered
38	INVASIVE BLOOD PRESSURE MODULE (OPTIONAL)				
39	4 Channel IBP Monitoring	TE Compliance	TE Compliance	Not Offered	Not Offered
40	Numeric: Systolic, Diastolic and Mean Pressure	TE Compliance	TE Compliance	Not Offered	Not Offered
41	Variable scale: Selectable	TE Compliance	TE Compliance	Not Offered	Not Offered
42	5 IBP Complete kits	TE Compliance	TE Compliance	Not Offered	Not Offered
43	ARRTHEMIA ANALYSIS: (OPTIONAL)				
44	Arrhythmia analysis and ST analysis with minimum 10 Arrhythmia detection capability	TE Compliance	TE Compliance	Not Offered	Not Offered
45	CARDIAC OUTPUT MODULE (OPTIONAL)				
46	Numeric Display	TE Compliance	TE Compliance	Not Offered	Not Offered
47	Display of Cardiac Output	TE Compliance	TE Compliance	Not Offered	Not Offered
48	Thermodilution Method	TE Compliance	TE Compliance	Not Offered	Not Offered
49	One starter kit	TE Compliance	TE Compliance	Not Offered	Not Offered
50	CAPNOGRAPHY (ETCO2) (OPTIONAL)				
51	For measuring of End Tidal CO2	TE Compliance	TE Compliance	Not Offered	Not Offered
52	Capability of Main / side stream measurements for intubated and non intubated patients.	TE Compliance	TE Compliance	Not Offered	Not Offered
53	Airway & nasal adapter 50 each adult and paed	TE Compliance	TE Compliance	Not Offered	Not Offered
54	TRENDS:				
55	Trends for at least 48-96 hours with graphical and tabular representation for all parameters	TE Compliance	TE Compliance	Not Offered	Not Offered
56	ALARMS:				
57	Selectable automatic Adult and Pediatric Mode alarm limits High and low (settable) on all parameters	TE Compliance	TE Compliance	Not Offered	Not Offered





PRE-REQUISITES		M/S Shirazi Trading	M/S Vertex	M/S Total Technologies	M/S Amtronech
58	Visual and Audible indication of alarms	TE Compliance	TE Compliance	Not Offered	Not Offered
59	BACKUP SUPPORT				
60	Built-in Rechargeable Battery with back up of at least 1-2 hours in case of AC power failure for full parameters.	TE Compliance	TE Compliance	Not Offered	Not Offered
61	Wall mount or trolley original from manufacturer.	TE Compliance	TE Compliance	Not Offered	Not Offered
62	The system must be complete with all sensors, probe, cable or any other accessories required for measuring all the above selectable parameters for adult & Pediatric applications. All the accessories must be supplied by the same manufacturer	TE Compliance	TE Compliance	Not Offered	Not Offered
1	BIS MONITORING (STANDARD)				
2	Model	Procare B-20	Infinity Delta	BIS Vista	Masimo Root
3	Make	GE	Drager	Covidien	Masimo
4	Country of Origin: USA / Europe / Japan	China	USA / Germany	USA	USA / Mexico
5	Authorization	31.12.2015	31.12.2016	No detail provided	Yes
6	Certification: CE	FDA/CE	FDA/CE	FDA/CE	No detail provided
7	Warranty: 5 Years Comprehensive with parts & spare including backup services	5 Years	3 Years	5 Years	5 Years
8	Non invasive bilateral brain function monitoring system designed for intraoperative or intensive care use.	Not Available	Not Available	TE Compliance	TE Compliance
9	Monitored parameters:				
10	Four channels of high quality bilateral real time EEG.	TE Compliance	TE Compliance		
11	Simultaneous EEG of both sides of the brain .	Not Available	TE Compliance	TE Compliance	TE Compliance
12	EEG-derived index (0-100) to represent patient state index.	TE Compliance	TE Compliance	TE Compliance	TE Compliance
13	Density Spectral Array for identification of spectral edge, asymmetry of the left and right sides of the brain, burst suppression,	TE Compliance	TE Compliance	TE Compliance	TE Compliance
14	EMG, suppression ratio and artifacts.	TE Compliance	TE Compliance	TE Compliance	TE Compliance
15	Additional features:				
16	Color coded trend graph display of consciousness index with alarm limits.	TE Compliance	TE Compliance	TE Compliance	TE Compliance
17	Display of EMG, suppression ratio and artifacts.	TE Compliance	TE Compliance	TE Compliance	TE Compliance
18	Trend graph/Numeric display of EMG, suppression ratio and artifacts	TE Compliance	TE Compliance	TE Compliance	TE Compliance
19	1 hour or more trend period on display	TE Compliance	TE Compliance	TE Compliance	TE Compliance
20	72 or more hour trend record.	TE Compliance	TE Compliance	TE Compliance	TE Compliance
21	Digital event marker with labeling	TE Compliance	TE Compliance	TE Compliance	TE Compliance
22	Display:	TE Compliance	TE Compliance	TE Compliance	TE Compliance





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PRE-REQUISITES		M/S Shirazi Trading	M/S Vertex	M/S Total Technologies	M/S Amtronech
23	High-resolution (1280 x 800 pixels) or better color Active Matrix TFT LCD Touch Screen display.	10.4"	10.4"	Not Mentioned	10.1"
24	User configurable display through intuitive user interface and touch screen.	Not touch	TE Compliance	Touch	Touch
25	Connectivity:				
26	Ethernet LAN connectivity with HIS or Serial Port	TE Compliance	TE Compliance	TE Compliance	TE Compliance
27	USB trend & data upload	TE Compliance	TE Compliance	TE Compliance	TE Compliance
28	Power:				
29	230V/240V AC 50Hz.				
30	Built in rechargeable battery for 30 minutes or more	1 hour	1 hour	1 hours	4 Hours
31	Accessories:				
32	Patient Cable	TE Compliance	TE Compliance	TE Compliance	TE Compliance
33	Disposable sensors (50).	TE Compliance	TE Compliance	TE Compliance	TE Compliance
	REMARKS	TNA	TA	TA	TA


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