

Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 15:00:00
Bid Opening Date/Time	27-07-2020 15:30:00
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	Secr
Total Quantity	1
Item Category	Anaesthesia Workstation
Experience Criteria	3 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Certificate (Requested in ATC),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.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

Anaesthesia Workstation (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Standards	Conformity to standards	-	*
	Certification date and number	-	*
	Certification of manufactures	ISO 9001 & ISO 13485	*
	ISO certification number and date	-	*
	Confirmity to medical electrical safety standards	IEC60601-2-13 and BS EN 6060-1-1	*
Performance Parameters	Purpose of anaesthesia workstation	Anesthetic machine in used to provide an accurate and continuous supply of medical gases mixed with an accurate concentration of anaesthetic vapour and deliver this to the patient at a safe pressure and flow.	Anesthetic machine in used to provide an accurate and continuous supply of medical gases mixed with an accurate concentration of anaesthetic vapour and deliver this to the patient at a safe pressure and flow.
	Components of Anesthesia workstation	Anesthesia machine , Inbuilt ventilator , vaporisor , Gas delivery system , Multi para monitor	Anesthesia machine , Inbuilt ventilator , vaporisor , Gas delivery system , Multi para monitor
	Type of mounting for the Anesthesia workstation	Trolley Mounting	Wall Mounting, Trolley Mounting
	Material used for Anesthesia	rust-proof ABS plastic with metal	Non ferrous metals, Polymer, Epoxy powder

workstation	reinforcements	painted steel, Stainless steel, rust-proof ABS plastic with metal reinforcements
Mode of integrated scavenging system with pressure relief valve	Passive	Active, Passive
Minimum Battery backup for anesthesia workstation	2 hour	45 Minute, 1 hour, 2 hour
Minimum Battery backup for Ventilator	2 hour	45 Minute, 1 hour, 2 hour
Minimum Battery backup for monitor	2 hour	45 Minutes, 1 hour, 2 hour
Facility of manual ventillation in case of electricity and battery failure	Yes	Yes, No
Facility of gas and agent delivery in case of electricity and battery failure	Yes	Yes, No
All the components likes anesthesia machine, integrated ventilator, vaporizer from the same manufacturer	Yes (except for desoflurene vaporizer to be sourced from reputed OEM with complete warranty support and authorization)	Yes, Yes (except for desoflurene vaporizer to be sourced from reputed OEM with complete warranty support and authorization)
Patient monitor from same manufacturer	Yes	Yes, No
Workstation should have minimum of two drawers to keep accessories, good mobility, anti static caster wheels with locking facility & conveniently placed handles for easy movement of the machine	Yes	*
All software updates should be provided free of cost during Warranty period	Yes	*
The anesthesia machine can be used safely up to 1000	No	Yes, No

	gauss line while being used with MRI		
	Should have Air/N₂O interlock	Yes	Yes, No
	Inspiratory time in sec	0.2 to 3 sec	*
	Expiratory time	0.5 to 6 sec	*
	Flow rate in lpm	0.2 to 6 lpm	*
	Pressure relief	05 to 75 cm H ₂ O	*
	Warranty in years	3	3, 4, 5
Gas Delivery System	Availability of Pin index yokes for gases	Oxygen and Nitrous oxide	*
	Availability of Separate Pin index yokes for gases	Oxygen , Nitrous oxide , Air	*
	Availability of cascading type flow meters for O ₂ , N ₂ O and air	Yes	*
	Mode of gas mixing	Pneumatic	Electronic, Pneumatic
	Availability of rotameter control guards in anesthesia workstation	Yes	*
	Availability of pressure gauges for cylinder and pipelines in anesthesia workstation	Yes	*
	Availability of audible and visual oxygen failure alarms	Yes	*
	Minimum emergency oxygen flow in liter per minute	35-70	*
	Type of hypoxic guard with automatic cutoff of N₂O	Mechanical	Electronic, Mechanical
Vaporizer	Number of quick mount type vaporizer for easy interchangeability at a time	2	*
	Number of selectable back bar	2	*
	Facility of interlock for vaporizer	Yes	*
	Volume percentage of delivery range	0 to 10	*

	Minimum agent capacity for free volatile anesthetic agent in ml	225	*
	Sensor connection shall be internal to prevent disconnection	Yes	*
	Vaporizer compatible to gases	Sevoflurane	Sevoflurane, Isoflurane, Desflurane, Halothane
	The vaporizer design should be maintenance free	Yes	*
	Vaporizer calibration requirement	After every 5 years	*
Breathing System	Breathing system should have fresh gas de-coupled / compensation , closed circle absorber system	Yes	*
	Range of pressure relief valve in mbar of breathing system	5 to 75	*
	Number of steps in change over from spontaneous to bag ventilation	single step	*
	Number of reusable autoclavable closed silicone circuit supplied	2 for adult and 2 for pediatric	*
	Number of bair circuit (adult) supplied with workstation	10	10, 15, 20
	Number of Jackson Rees circuit for pediatric patients supplied with workstation	10	10, 15, 20
	Volume capacity of breathing system in liters	1.7	1.5, 1.7
	Breathing system should have leak and compliance test	Yes	*
Anesthesia Ventilator	Available modes of operating ventilator	Manual/spont, volume controlled , pressure controlled , SIMV/PS	Manual/spont, volume controlled , pressure controlled , SIMV/PS, CMV, SIMV, AC, Sign
	Ventilator should be capable to pressure	Yes	Yes, No

	support		
	Integrated ventilator shall not require bellows to be change for adults and infants	Yes	*
	Tidal volume of ventilator in ml	20 to 1400 ml	*
	PEEP of ventilator in mbar	0 to 20 mbar	*
	Breathing frequency in BPM	4 to 60 BPM	*
	Inspiratory pause percentage of Ti	0-50%	*
	Screen size of Ventilator monitor in inches	10	8, 10, 12, 15, 7
	Integrated ventilator shall be able to provide facility to monitor ETCO2 , Automatic identification of agents	No	*
	Ventilator should be able to ventilate with atmospheric air if total gas supply failure	No	*
Monitor	Type of monitor	TFT	TFT, LCD
	Size of monitor in inches	12	*
	Monitor should not require lengthy start up procedure or calibration for display of parameters	Yes	*
	The graphical and numerical trend with split screen duration	24 hours	*
	Patient multipara monitor shall be able to display parameters	HR, SpO2, NIBP, ECG, Temp, Agent identification (MAC)	HR, SpO2, NIBP, ECG, Temp, HR, SpO2, NIBP, ECG, Temp, Agent identification (MAC), HR ,SpO2,NIBP,ECG,Temp, Agent identification (MAC),NIMT/BIS,Entropy
	NMT to be displayed	No	Yes, No
	Dual temperature to be displayed	No	Yes, No
	BIS/ENTROPY to be displayed	No	Yes, No

Capnography to be displayed	Yes	Yes, No
EtCO2 to be displayed	Yes	Yes, No
IBP1 and IBP2 to be displayed	No	Yes, No
CO(cardiac output) to be displayed	No	Yes, No
ECG monitoring with standard lead configuration, I,II,III, avL, avF&V filters so that it is protected against defibrillator, electro surgery potentials, arrhythmia analysis and ST segment analysis with trends	Yes	*
NIBP should be determine with oscillometric method, should read systolic, diastolic and mean arterial pressure and pulse rate	Yes	*
Pulse oximetry with sensors suitable for adults, pediatric& neonate	Yes	*
ETCO2 measurement should be by infra -red absorption technique, measuring mode should be side stream or main stream and response time should be less than 3 seconds	Yes	*
Monitor should be able to monitor and display all parameters in single screen	Yes	*
Make of monitor if monitor provided is not from the same OEM and if from same OEM put NA	-	*
System to be supplied with oxygen monitor	Yes	Yes, No
Alarms	Number of alarms	14
		*

	Alarms shall be adjustable to high / low limits with audio and visual alarms	Yes	*
Power supply	Length of main cable in meter with power socket of standard indian make to be provided	5	*
	Power supply	220-240V AC, 50 Hz single phase	*
Additional Accessories	Transparent re-usable silicon face mask size 0,1, 2, 3, 4 & 5	2 each	*
	Breathing bag 2 Litre & 500 ml	2 each	*
	3/5 ECG lead	2	*
	Nasopharyngeal/rectal and skin Temperature probes should be Provided	2	*
	Re usable adult cuffs, reusable Paediatric cuff and sets of Disposables cuff for neonatal	2	*
	ETCO2 line and adapters	15 each	*
	Mox regulator with 3 meter high Pressure tubing	1	*
	Provision for laryngoscopes	Not Provided	Yes (adult and pediatric), Not Provided
	Reusable patient circuits	1	1, 2, Not provided
	Reusable masks	Not provided	2, 3, Not provided, Adult & Pediatric i piece on each sizes 0,1,2,3,4 & 5
	SPO₂ sensor provided	Not provided	1, Not provided, 2
	NIBP cuff	Not Provided	1, Not Provided
	Skin and nasopharyngeal temperature probe	Not provided	1, Not provided
	ETCO2 sample lines	Not provided	1, Not provided, 10, 25, 10
	Reusable IBP interface cables	Not provided	1, Not provided

Disposable IBP transducers	Not provided	1, Not provided, 5, 10
BIS sensors	Not provided	10, 20, 25, Not provided
Accessories for wall mounting	NA (If trolley mounting)	Yes, NA (If trolley mounting)

* 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	Kartick Chandra Bag	492008,Sr DMM SECR DRM Office , South East Central Railway	1	30

Bid Specific Additional Terms and Conditions

1. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
2. **Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.
3. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
4. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
5. Scope of supply (Bid price to include all cost components) : Only supply of Goods
6. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 10 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.
7. Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of FA & CAO/SECR/BILASPUR payable at RAIPUR. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of

hard copy to the original DD to the Buyer within 15 days of award of contract.

8. Warranty period of the supplied products shall be 3 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid

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

---Thank You---