



Bid Number/बोली क्रमांक (बिड संख्या):  
GEM/2023/B/3177092  
Dated/दिनांक : 27-02-2023

### Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	20-03-2023 15:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	20-03-2023 15:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Health And Family Welfare
Department Name/विभाग का नाम	Department Of Health And Family Welfare
Organisation Name/संगठन का नाम	Hospital Services Consultancy Corporation (i) Limited (hssc)
Office Name/कार्यालय का नाम	Head Office
Total Quantity/कुल मात्रा	7
Item Category/मद केटेगरी	Anaesthesia Workstation (Q3)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	289 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	2312 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover	Yes
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover	Yes

<b>Bid Details/बिड विवरण</b>	
<b>Document required from seller/विक्रेता से मांगे गए दस्तावेज़</b>	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC),Compliance of BoQ specification and supporting document *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
<b>Past Performance/विगत प्रदर्शन</b>	50 %
<b>Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया</b>	No
<b>Comprehensive Maintenance Charges Required</b>	Yes
<b>Type of Bid/बिड का प्रकार</b>	Two Packet Bid
<b>Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय</b>	2 Days
<b>Estimated Bid Value/अनुमानित बिड मूल्य</b>	57800000
<b>Evaluation Method/मूल्यांकन पद्धति</b>	Total value wise evaluation

#### **EMD Detail/ईएमडी विवरण**

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	1156000

#### **ePBG Detail/ईपीबीजी विवरण**

Advisory Bank	State Bank of India
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	3.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	62

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

**Beneficiary/लभार्थी :**

Director  
Lady Hardinge Medical College New Delhi  
(Director)

**Splitting/विभाजन**

Bid splitting not applied.

**MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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**MSE Purchase Preference/एमएसई खरीद वरीयता**

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. 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 Financial years as indicated above 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 Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
5. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
6. Preference to Make in India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company

and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

7. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

8. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

9. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

#### Pre Bid Detail(s)

Pre-Bid Date and Time	Pre-Bid Venue
10-03-2023 15:00:00	<a href="https://meet.google.com/vdv-zmct-wch">https://meet.google.com/vdv-zmct-wch</a>

#### Anaesthesia Workstation ( 7 pieces )

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)**

Brand Type/ब्रांड का प्रकार	Registered Brand
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#### Technical Specifications/तकनीकी विशिष्टियाँ

\* As per GeM Category Specification/जेम केटेगरी विशिष्टि के अनुसार

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
Performance Parameters	<b>Purpose of anesthesia workstation</b>	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.
	<b>Components of Anesthesia workstation</b>	Anesthesia machine , Inbuilt ventilator , vaporisor , Gas delivery system , Multi para monitor

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	<b>Type of mounting for the Anesthesia workstation</b>	Wall Mounting, Trolley Mounting
	<b>Material used for Anesthesia workstation</b>	Non ferrous metals, Polymer, Epoxy powder painted steel, Stainless steel, rust-proof ABS plastic with metal reinforcements
	<b>Mode of integrated scavenging system with pressure relief valve</b>	Active, Passive
	<b>Minimum Battery backup for anesthesia workstation</b>	45 Minute, 1 hour, 2 hour
	<b>Minimum Battery backup for Ventilator</b>	45 Minute, 1 hour, 2 hour
	<b>Minimum Battery backup for monitor</b>	45 Minutes, 1 hour, 2 hour
	<b>Facility of manual ventillation in case of electricity and battery failure</b>	Yes, No
	<b>Facility of gas and agent delivery in case of electricity and battery failure</b>	Yes, No
	<b>All the components likes anesthesia machine, integrated ventilator, vaporizer from the same manufacturer</b>	Yes, Yes (except for desoflurane/Enflurane vaporizer to be sourced from reputed OEM with complete warranty support and authorization )
	<b>Patient monitor from same manufacturer</b>	Yes, No
	<b>The anesthesia machine can be used safely up to 1000 gauss line while being used with MRI</b>	Yes, No
	<b>Should have Air/N<sub>2</sub>O interlock</b>	Yes, No
	<b>Warranty in years</b>	3, 4, 5
Gas Delivery System	<b>Mode of gas mixing</b>	Electronic
Vaporizer	<b>Type of hypoxic guard with automatic cutoff of N<sub>2</sub>O</b>	Electronic, Mechanical
Breathing System	<b>Vaporizer compatible to gases</b>	Sevoflurane, Isoflurane, Desflurane, Halothane, Enflurane
	<b>Number of bair circuit (adult) supplied with workstation</b>	10, 15, 20

Specification	Specification Name/विशिष्ट का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	<b>Number of Jackson Rees circuit for pediatric patients supplied with workstation</b>	10, 15, 20
	<b>Volume capacity of breathing system in liters</b>	1.5, 1.7
Anesthesia Ventilator	<b>Available modes of operating ventilator</b>	Manual/spont, volume controlled , pressure controlled , SIMV/PS, CMV, SIMV, AC, Sign
	<b>Ventilator should be capable to pressure support</b>	Yes, No
	<b>Screen size of Ventilator monitor in inches</b>	8, 10, 12, 15, 7
Monitor	<b>Type of monitor</b>	TFT, LCD
	<b>Patient multipara monitor shall be able to display parameters</b>	HR, SpO2, NIBP, ECG, Temp, HR, SpO2, NIBP, ECG, Temp, Agent identification (MAC), HR,SpO2,NIBP,ECG,Temp, Agent identification (MAC),NIMT/BIS,Entropy
	<b>NMT to be displayed</b>	Yes, No
	<b>Dual temperature to be displayed</b>	Yes, No
	<b>BIS/ENTROPY to be displayed</b>	Yes, No
	<b>Capnography to be displayed</b>	Yes, No
	<b>EtCO2 to be displayed</b>	Yes, No
	<b>IBP1 and IBP2 to be displayed</b>	Yes, No
	<b>CO(cardiac output) to be displayed</b>	Yes, No
	<b>System to be supplied with oxygen monitor</b>	Yes, No
Additional Accessories	<b>Provision for laryngoscopes</b>	Yes (adult and pediatric), Not Provided
	<b>Reusable patient circuits</b>	1, 2, Not provided
	<b>Reusable masks</b>	2, 3, Not provided, Adult & Pediatric i piece on each sizes 0,1,2,3,4 & 5
	<b>SPO<sub>2</sub> sensor provided</b>	1, Not provided, 2
	<b>NIBP cuff</b>	1, Not Provided
	<b>Skin and nasopharyngeal temperature probe</b>	1, Not provided
	<b>ETCO<sub>2</sub> sample lines</b>	1, Not provided, 10, 25, 10
	<b>Reusable IBP interface cables</b>	1, Not provided

Specification	Specification Name/विशिष्ट का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	<b>Disposable IBP transducers</b>	1, Not provided, 5, 10
	<b>BIS sensors</b>	10, 20, 25, Not provided
	<b>Accessories for wall mounting</b>	Yes, NA (If trolley mounting)

<b>Comprehensive Maintenance</b>	
Warranty of required product	5 Year
Comprehensive Maintenance Duration (Post Warranty)	5 Year

\*Warranty displayed under the AMC/CMC Details section will supersede the warranty displayed under the catalog specification

#### **Additional Specification Parameters - Anaesthesia Workstation ( 7 pieces )**

Specification Parameter Name	Bid Requirement (Allowed Values)
Technical Requirements	Required technical specifications has been attached in "Buyer Added Bid Specific ATC" Bidders are required to quote for the product meeting with technical requirements given in "Buyer added Bid Specific ATC"
Technical Requirement	All bidders are requested to note that the technical specification of Anesthesia Workstation as mentioned in the ATC shall prevail. Bidders to quote accordingly submit technical compliance as per specification mentioned in ATC. Technical Evaluation will be done based on ATC Specification.

\* Bidders offering must also comply with the additional specification parameters mentioned above.

#### **Installation Commissioning and Testing (ICT) details for the above item:**

% of Product Cost Payable on Product Delivery	80%
Min Cost Allocation for ICT as a % of product cost	20%
Number of days allowed for ICT after site readiness communication to seller	60 Days/दिन

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	ANUPAM PRAKASH	110001,New OPD and IPD Block at Lady Hardinge Medical College (LHMC), New Delhi, C-604, Connaught Circus, Bangla Sahib Rd, DIZ Area, Connaught Place, New Delhi, Delhi 110001	7	90

**Special terms and conditions-Version:2 effective from 21-10-2022 for category Anaesthesia Workstation**

1. 1. All Provisions of Drugs and Cosmetics Act, 1940 and Rules made there under as amended till date will always be applicable. This will include all notifications issued by *Central Drugs Standard Control Organisation(CDSCO)*, Ministry of Health & Family Welfare (MoHFW) and Department of Pharmaceuticals (DOP), Ministry of Chemicals & Fertilizers time to time in this regard.
2. The sellers are registered on GeM based on self-declaration of valid Drug License, product certification, test reports etc. However, buyers must check and validate the details at their end for all applicable licenses and certifications e.g., validity and authenticity/genuineness of drug license, product certification, manufacturer certification/licenses, test reports etc.
3. The price offered by the seller shall not, in any case exceed the DPCO controlled price, if any, fixed by the Central/State Government, the Maximum Retail Price (MRP) and the selling price. The seller must reduce the prices if there is any reduction in DPCO ceiling price, if any.
4. **Comprehensive warranty:** Comprehensive warranty shall include preventive maintenance including calibration as per technical/ service /operational manual of the manufacturer, service charges and spares. During the warranty period commencing from date of the successful completion of warranty period, Service personnel shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, at least once in six months. warranty shall not be including the consumables. Further there will be 98% uptime warranty during warranty period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend warranty period by double the downtime period.
5. **Service centres:** Details of Service outlets in India to render services for equipment to be furnished to buyer/consignees with complete address,telephone numbers, e mails etc at time of making the supplies. It shall be the responsibility of seller to ensure that authorized service centres are available to cater to the areas where supplies are made within reasonable distance from where the service calls can be handled.Details of toll-free numbers for service call and online registration of service requests also to be provided buyer/consignee at the time of supplies.
6. **Source of supply:** It shall be responsibility of seller to provide Documents regarding source of equipments such as copy of Performa invoice or any other documents to establish that the products supplied are manufactured by OEM indicated and sourced from them.
7. **Packing and Marking:** Medical equipments being very delicate and sensitive packing for the goods should be strong and durable enough to withstand transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. .The size, weights and volumes of the packing cases, remoteness of the final destination of the goods, availability or otherwise of transport and handling facilities at all points during transit up to final destination,. Quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall take into consideration the type of medical equipments being supplied. The accessories shall be suitably labelled and packed. Each of the package shall be marked on three sides with indelible paint of proper quality: indicating contract number and date, brief description of goods including quantity, Packing list reference number, country of origin of goods and any other relevant details.
8. **Spare Parts:** Seller shall provide materials, information etc. pertaining to spare parts manufactured and supplied by the OEM. It shall be ensured that the required spares are available for purchase at least for 10 years from date of supplies. In case due to any reasons the production of the spare parts is discontinued sufficient advance notice should be given to the buyer/consignee before such discontinuation to provide adequate time to purchase the required spare parts etc. Further, OEM and their service centres/dealers shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the equipments so that the same are available.



OEM or reseller shall always accord most favoured client status to the buyer/consignee and shall give the most competitive price for spares and consumables of its machines/equipments supplied.

9. **Installation, Training, Manuals:** Seller shall be responsible to carry out Installation & commissioning, Supervision and Demonstration of the goods. They shall provide required jigs and tools for assembly, minor civil works for the completion of the installation and Training of Consignee's representatives for operating and maintaining the equipment and supplying required number of operation & maintenance manual for the goods. In case the category parameters are specifying any requirements regarding the installations, training and manuals the same shall also be applicable.
10. **Electrical safety checking:** Sellers are required to make sure that they furnish the list of equipments for carrying out routine and preventive maintenance to buyer/consignee .They should make sure to periodically check the electrical safety aspects as per BIS Safety Standards or equivalent .In case they do not have required equipment for such testing should ensure that the equipments checked for electrical safety compliance through labs with facilities for such checking during every preventive maintenance call.
11. **Software:** All software updates should be provided free of cost during warranty period.
12. Any other Terms and Conditions which is not included or at variance with the conditions specified in STC/GTC, may be added by the buyer through Additional Terms and Conditions in the bid to ensure items are procured from authentic/validated source with appropriate and applicable quality. The above terms and conditions are in reverse order of precedence i.e. ATC shall supersede specific STC which shall supersede General Terms and Conditions ("GTC"), whenever there are any conflicting provisions.

## **Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें**

1. Authorised Service Centre within the state of Odisha, along with a dedicated contact person with telephone number for technical solution in a fast track basis at this institution as and when required basis.
2. Experience Certificate for the supply of the same to any Govt/ PSU/ any renowned private organisation along with Supply/ Purchase Order.
3. If the agency is registered under MSME or NSIC, then EMD exemption certificate needs to be enclosed.
4. Make in india specific authorisation certificate needs to be enclosed.
5. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

### **Technical specification for High end Anaesthesia workstation**

- 1) The anaesthesia workstation should be sturdy, reliable, advanced and microprocessor based system.
- 2) The system should be movable on four castors out of which at least two should be individually lockable. The system design should be complying with international tipping standard as mentioned in IEC 606 01-1ed2.
- 3) The system should be able to deliver fresh gas without rebreathing.
- 4) **Anesthesia machine should be with 3 gas supply system (O2, N2O and Air) with pipeline connections and cylinder. Should have provision for attaching 1 cylinder of O2 and N2O each. It should have digital display of cylindrical and pipeline pressure on display screen.**
- 5) The machine should impose minimum work of breathing to patient.
- 6) The machine must be able to log all alarms, self tests, messages and other events.
- 7) There should be possibility to mount/hang other equipment on rails/shaft.
- 8) The machine should have integrated dimmable light to illuminate work surface on the machine.
- 9) The entire breathing circuit should be latex free.
- 10) There should be an inbuilt low flow oxygen flowmeter for administering oxygen to patient via nasal prongs or mask.
- 11) **Gas delivery:**

- a) **It should be three gas systems to administer Air, Oxygen and Nitrous oxide. It should be able to provide low-flow and minimal flow anesthesia to patients. The flow meters should be electronic and very precise in delivering set flow.**
- b) **Fresh gas flow range: 0.1 - 20 l/min.**
- c) Electronic gas mixing to set the FGF and O<sub>2</sub> directly.
- d) **The Machine should have active electronic hypoxic guard if measured FiO<sub>2</sub> is lower than 21%.**
- e) **Facility to bypass the CO<sub>2</sub> absorber during ventilation to change soda lime**

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12) **User interface:**

- a) The user interface should be intuitive with clear menus and symbol.
- b) The system should be operable through a large user interface of at least 15" screen size. The screen should be colour active matrix TFT display type.
- c) The screen should be visible from all angles
- d) It should be touch-screen for ease of operation.
- e) It should be capable of displaying six waveforms, P-V and F-V loops simultaneously.
- f) Trend values shall be stored for 24 hours.

13) **Vaporizers:**

- a) **The system should be able to mount at least two vaporizers at a time. These vaporizers should be electronic and working on injection based principle. Vaporizer should not be required to be removed from the system for re-filling.**
- b) **Electronic vaporizers should be set & control via main screen**
- c) One Isoflurane and one Sevoflurane vaporizers should be offered with the system.
- d) The system should give alarm if low level of agent remaining in vaporizer.
- e) **If Desflurane is used then there should not be any warm-up time.**
- f) **Total gas consumption should be measured and displayed on the screen**
- g) The vaporizer should be constructed using a light weight material and easy to carry. The weight should be less than 3.5 kg when filled with agent.
- h) The container of the vaporizer chamber should be minimum 300 ml.

14) **Circle rebreathing system:**

- a) Total system volume should be as low as possible and not exceed 3 liter including absorber allows fast wash-in and wash-out, providing better control of the anesthesia during low flow.
- b) There should not be any moving parts like bellows or piston in the circle system.
- c) **In low flow fresh gas flow settings and in the case of leaks, rebreathing system automatically should compensate the patient circuit with oxygen, minimizing the risk of potentially dangerous hypoxic mixture.**
- d) The breathing module where patient's exhaled gases are moving should be able to be cleaned and completely disinfected to avoid cross infections. All parts of patient breathing system/cassette should be autoclavable. If such breathing module is not autoclavable then 10 such breathing module should be quoted with main machine.
- e) Switching between manual and automated ventilation shall be a simple procedure, and doing so shall only require a one-handed operation. **Manual with APL valve setting should be available on Screen**

- f) Anesthesia machine should have visual guide to set the optimal fresh gas flow (FGF) and enables to optimize rebreathing fraction.
- g) **Should have automatic gas control to adjust the fresh gas flow and the anesthesia gas concentration in order to reach the set target values for inspired O<sub>2</sub> (FiO<sub>2</sub>) and end tidal anesthesia agent concentration (EtAA). It should have built-in speed and prediction tool to support the user with information.** In automatic controlled fresh gas mode the fresh gas flow must be able to go down to 0,1 l/min

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#### 15) **Ventilator:**

- a) The machine should have manual, spontaneous and control modes. Modes such as Volume control, Pressure control, PRVC, SIMV and PS.
- b) It should be employing reusable/non-consumable flow sensors. It is preferable to have ultrasonic flow measurement. If flow sensors are consumable then quote 100 flow sensors with the main machine.
- c) Parameters setting should be,
  - i) Inspiratory Pressure: 0 - 120 cm H<sub>2</sub>O
  - ii) Tidal volume: 20 - 1200 ml or better in volume controlled. Tidal volume down to 5 ml in pressure controlled.
  - iii) PEEP: 0- 50 cm H<sub>2</sub>O
  - iv) Peak inspiratory flow: 200 l/min
- d) It should be able to compensate compressible volume in tubing and breathing circuit.
- e) Predictive body weight settings should be available for the ventilator settings. The equipment should have tools for performing a lung recruitment maneuver. The lung recruitment maneuver should be automatic
- f) Measure lung mechanics parameters such as compliance and resistance.
- g) Should have CPB mode

#### 16) **Gas monitoring:**

- a) **It should have inbuilt gas monitoring for CO<sub>2</sub>, N<sub>2</sub>O, O<sub>2</sub> and Anaesthesia agent for inspiratory and expiratory values. It should be monitor and display MAC value on the screen.**
- b) It should be able to monitor and display concentration for two anaesthesia agents simultaneously.

#### 17) **Monitor** should have the following.

- Should have at least 15" or more TFT/LED colour display with a minimum of 8 waveforms at a time
- Should be touch screen.
- 3 and 5 lead ECG with electrocautery & defibrillator filter with ST Segment & arrhythmia detection with analysis.
- Respiration, SpO<sub>2</sub> (SpO<sub>2</sub> technology to prevent motion artifact), temperature.
- SpO<sub>2</sub> with Low Perfusion Technology/Masimo.
- NIBP, 2 IBP, ETCO<sub>2</sub>.
- Multi -Gas analysis with auto detection of all anesthetic agents should be able to display either on Machine

e or Patient Monitor. Should have independent paramagnetic oxygen sensor for FiO2 monitor and flow sensor for spirometry loops.

- Depth of Anaesthesia/ BIS/entropy Monitoring.
- NMT monitor (Single twitch, TOF, PTC).
- Should have graded audio and visual alarms for the following parameters:
- Blood pressure - High and Low.
- SpO2 - High and Low.
- Heart rate - High and Low.
- Respiration - High and Low.
- FiO2 - High and Low.
- Trends - Upto 48 Hours or more, trend analysis, upto 24 hours.

18) **Data management:**

- a) The system should have atleast 2 RS232 ports, Ethernet port, VGA port and USB port for easy data collection.

19) **Power:**

- a) The system should be able to be used on mains power of 230VAC  $\pm$  10%.
- b) It should have battery backup for 90 minutes for entire system working if there is a mains power failure.
- c) Should have back-up O2 control which provides an independent fresh O2 gas source in case of electronic failure.
- d) The system should be offered with auxiliary 3 power outlets to connect and run other electrical equipment like monitor etc.
- e) Machine should have two drawers atleast.

20) Anesthesia machine, ventilator and vaporizer should be of same make and US FDA/European CE/BIS approved.

21) Scope of Supply

- a) Anesthesia workstation with integrated ventilator, integrated anesthesia gas analyzer and with automatic gas control.
- b) Auxiliary Oxygen Flowmeter.
- c) Color coded Pipeline Hoses and Inlets for Oxygen, N2O and Air.
- d) Integrated, fully autoclavable Advanced Breathing System with absorber.
- e) Adult reusable patient circuit - 1 No.
- f) Paed. Reusable Patient circuit - 1 No.
- g) Reusable Face mask of all sizes 1,2,3,4,5.
- h) Isoflurane electronic vaporizer
- i) Sevoflurane electronic vaporizer
- j) Water trap - 10 nos. and sampling lines - 20 Nos.
- k) Should be supplied with permanent O2 cell or company will replace free of cost during the warranty and CMC period

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## 6. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

### **Disclaimer/अस्वीकरण**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

### **Additional Clause For Comprehensive Maintenance Charges**

- 1.CMC shall include preventive maintenance including calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, after satisfactory completion of Warranty. During the CMC period commencing from date of the successful completion of warranty period, Service personnel shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, at least once in six months or as per user requirement. Cost of consumables shall not be included in CMC.Further there will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- 2.CMC charges to be indicated as percentage of cost of equipment quoted for each year after the warranty period.
- 3.GST shall be included in the CMC Charges quoted.
- 4.Cost of CMC will be added for Ranking/Evaluation purpose with depreciation formula.A 10% discounting rate per year shall be applied on CMC Charges for price evaluation on Net Present Value.
- 5.The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user.

6. While creating a bid or RA, buyers shall indicate whether CMC is required against Yes/No" options. If CMC Charges are included, an option for number of years for CMC required after the warranty period shall be available. Under this option up to 10 years can be chosen for CMC charges beyond warranty period.

7. In case the bid has a provision for CMC, the warranty of the product will also be deemed to have been converted into Comprehensive warranty including preventive maintenance and calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, during the Warranty Period also. Sellers are therefore advised to include the cost of Comprehensive Warranty including spares (excluding consumables) also in product Cost.

8. The CMC functionality shall be available in bid only and no direct RA shall be applicable. In case of bid to R/A decrement rules shall be applicable on total price inclusive of CMC charges. Bunching of products shall not be available while creating bids with CMC charges.

8.1. Buyer shall indicate number of years of warranty by selecting different options available in the field depending on warranty parameter applicable in category parameters for the equipment. No. of years of warranty indicated here shall supersede the warranty period indicated elsewhere in bid or product specifications. The Seller while participating in Bid/RA will get fields to indicate CMC charges as percentage depending on number of years of CMC selected by Buyer. The following shall be applicable, if 5 year CMC selected:

CMC charges for 1st year after warranty period- Percentage to be indicated- A1

CMC charges for 2nd year after warranty period- Percentage to be indicated- A2

CMC charges for 3rd year after warranty period - Percentage to be indicated- A3

CMC charges for 4th year after warranty period - Percentage to be indicated- A4

CMC charges for 5th year after warranty period - Percentage to be indicated- A5

Similarly, A6 to A10 are to be indicated for 6th to 10th year of CMC if applicable.

8.2. The calculation of CMC Charges shall take into account the number of years of warranty and duration of CMC as specified while creating bid.

8.3. In the price evaluation, the system shall provide function to calculate the cost of each equipment by formula indicated below including CMC and then show the inter-se-ranking of the bidders. The following are the variables

(i) Number of years for which CMC required.

(ii) Number of years of product warranty

The formula for calculating total cost including CMC charges shall be as under:

Total Cost for evaluation=

$C + C * \{ (A1/100)/(1.10^n) + (A2/100)/(1.10^{n+1}) + (A3/100)/(1.10^{n+2}) + (A4/100)/(1.10^{n+3}) + (A5/100)/(1.10^{n+4}) \}$  and so on

C - Cost for equipment quoted and n shall be number of years of product warranty specified.

If 2 year warranty specified, n shall be 2 and if 5 year warranty specified, n shall be 5. A1, A2, A3, A4 & A5 shall depend on how many years CMC selected. For 3 year CMC, only A1, A2 and A3 factors are to be taken into account and A4 and A5 will not be applicable.

8.4. CMC charges offered for each subsequent year should be same or higher than preceding year.

8.5. The CMC charges shall be offered within range of 3 to 10% of cost of equipment.

9. Since CMC charges are to be paid only later for each year during CMC period, applicable performance guarantee amount after placement of contract shall be based on the cost of equipment excluding the cost of CMC Charges.

10. Performance bank guarantee applicable for CMC is to be submitted at start of the CMC and shall be applicable between 2.5% to 5% as specified in bid on total CMC Charges. The PBG submitted after award of contract shall be released only after new PBG for the CMC period is submitted and accepted by buyer/consignee after due verification. Bank guarantee for CMC is to remain valid till completion of CMC period plus one year. The bank guarantee for CMC shall be submitted to buyer directly. In case, seller fails to submit the PBG or does not provide services for the CMC contract after expiry of warranty period then PBG of equipment shall be forfeited.

11. In case of splitting of order quantity, equipment cost and CMC charges offered by L1 bidder shall be matched by higher quoting eligible bidders on one-to-one basis. The equipment cost and CMC charges (year to year) shall be matched individually.

12. The CMC Contract shall be an offline contract to be handled by buyer. The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user and scope of CMC will be as per para 1 above.

13. CMC Charges are inclusive of all the charges for Transportation, Lodging, Boarding, all insurances including third party insurance and all other incidental charges. The same shall include GST. The prices also include cost of spares and damaged parts. Purchaser does not have any liability, whatsoever, over and above the cost of CMC. It also includes for arranging hand tools & tackles, special tools etc. required to carry out the work.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---