Bid Number: GEM/2020/B/712240
Dated: 15-07-2020

Bid Document

Bid Details	
Bid End Date/Time	18-07-2020 20:00:00
Bid Opening Date/Time	18-07-2020 20:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Power
Department Name	Na
Organisation Name	Ntpc Limited
Office Name	Ntpc Limited Ssc Er Ii Kaniha
Total Quantity	1
Item Category	Real time micro PCR **(PAC Only)**
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
CMC Required	Yes
Inspection Required	No

EMD Detail

Required	No

ePBG Detail

Required	No

Splitting

Bid splitting not applied.

Real Time Micro PCR (1 pieces) (Under PAC)

Make	truelab
Model	truelabquattro

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Certifications	Certifications for the product	EU CE with verified No,CDSCO	*
	Certification number and date	CDSCO MFG/IVD/2019/000018 DATED 12062019, CE 603023001 DATED 18042019	*
	Confirmity to quality management standards	ISO 9001 & ISO 13485	*
	Confirmity to electrical safety standards	IEC 60601,IEC 61000-3-4 or BIS Equivalent	*
Performance Parameters	Application	Automated Real Time PCR system for screening for TB ,as well other diseases specified in category parameters and specifically offered in the product	*
	Type of process	Fully Automated CHIP BASED Real time PCR for molecular testing	*
	Compatibility of reagent	Closed system	*
	Detection of MTB	Yes	*
	Capability to detect Rif resistance	Yes	*
	Components of the system supplied	Automatic Real time PCR with DNA extraction System,Reaction Chamber Suitable chip for diseases covered ,Chips corressponding to disease detection capability offered	*
	Multiple Sample	Yes	*

	Processing		
	No of samples which can be tested at a time	4	*
	Complete random access operation of each sample module	Yes	*
	Rapid stabilization of the system temperature	Yes	*
	Time taken to deliver results	60	*
	Monitoring error conditions of reaction chamber with alarm warning	Yes	*
	Alarm facility for any defect /false result	Yes	*
	Additional communicable diseases detection	Malaria,Dengue,H1N1, HBV-VL,HCV,COVID-19	Malaria, Dengue, H1N1, HBV-VL, HCV, COVID-19
	ICMR approval number and date for COVID 19 (incase not applicable put NA for others not required)	ICMR NOTIFICATION NO NIL DATED 03.04.2020	*
	Biosafety level	No	*
DNA Extraction System	Type of system	Automatic	*
	Rechargeable Battery	Lithium Ion Battery	*
	Components of sample preparation kit to be supplied with DNA Extractor	Liquefaction buffer,Lysis Buffer and Disposable Transfer Pipette(Graduated)	*
	No of Sample preparation kits supplied with system	50	*
Real Time PCR Platform	Type of detection system	fluorescence based detection	*
	No of cycles in PCR	40	*
	Wifi compatibility	Yes	*
	3G/4G compatibility	Yes	*
	Bluetooth interface	Yes	*
	Bluetooth connectivity with printer	Yes	*
	Capability of auto-calibration	Yes	*
	Storage capacity of	10000	Above 10000

	the system with back up facility for all test performed		
	Display	LCD	*
	Screen interface	Touch screen	*
	Size of display	5	*
	Up-gradability of software	The software should be up-gradable and user friendly	*
Reaction Chamber	Type of Reaction Chamber	Disposable	*
	Operating temp range of the reaction chamber	40-100 °C	*
	Features of reaction chamber provided for MTB	Reaction chamber should include lyophilized PCR reagents in microtube for performing detection of mycobacterium tuberculosis, ,Reaction kits to contain all necessary reagents for real time PCR and should have built in controls to access PCR	*
	No of reaction chambers provided for MTB with system	50	*
	No MTB/Rif Resistance reaction chamber provided	50	*
	Features of reaction chamber provided for MTB /Rifamycin resistance with system	Reaction chamber should include lyophilized PCR reagents in microtube for performing detection of mycobacterium tuberculosis, as well as Rifamycin resistance Reaction chamber should include lyophilized PCR Reagents in microtube for performing detection of Rifamicin Resistant Mycobacterium Tuberculosis,Reaction kits to contain all	*

		necessary reagents for real time PCR and should have built in controls to access PCR	
	No of reaction chambers provided for additional Diseases	COVID-19 (50 nos)	Malaria(50 Nos), Dengue(50 Nos), H1N1(50 Nos), HBV-VL(50 Nos), HCV(50 Nos), COVID-19 (200 nos), COVID-19 (50 nos), Not supplied
Diagnostic Chips	Packing	Sealed Pouch	*
	Sample Preparation kit	Auto universal catridge based sample preparation kit	*
	No of sample prpeparation kit supplied with system	50	*
	Sample size	6	*
	Reagents	Dried down PCR reagents in microtube	*
	Flash Memory	Flash memory to retain information and standard curve values for automatic quantitative determination	*
	Re-usability of Chip	Non reusable and reuse and expiry use should be detectable by flash memory	*
	Disposability of the Chip	Chips should be suitable for disinfection and disposable as per applicable biomedical waste amangement rules and should not be infective after use	*
	Components to be supplied with chips	Auto universal catridge based sample preparation kit,Auto sample pre treatment pack for relevant diagnostic test and Individualy sealed puches with micro PCR chip,Microtube	*
	Auto Universal Cartridge based sample preparation kit components	Reagent pack containing ready to use buffers for automatic sample extraction ,catridge pack with	*

		fluidic catridge to move sample and buffers through proprietary matrix for extracting nucleic acids from the sample and disposable transfer pipette	
	Contents of Sample pre treatment pack	Liquefaction buffer to liquify the sample,Lysis buffer to lyse the cells and release nucleic acids,Graduated disposable transfer pipettes	*
	Dnase & Rnase free filter pipette tip	Yes	*
	Desiccant pouch	Yes	*
	Stability of chips at room temperature	Yes	*
	No of Rapid Diagnostic MTB Chip supplied with system	50	*
	Process capability of MTB Chip	MTB chip should function real time polymerase Chain Reaction test for detection of Mycobacterium tuberculosis(MTB) IN HUMAN PULMONARY (Sputum/non sputum) specimen/culture	*
	Target sequence for MTB Chip	Should be part of the ri bonucleoside-diphosph atereduceraductase gene specific to the MTB complex	*
	MTB-Rif Chip	MTB-RIF chip to function on Real Time PCR process for the detection of Rifampicin resistance in MCOBACTERIUM TUBERCULOSIS(mtb) in MTB positive human specimen/culture	MTB-RIF chip to function on Real Time PCR process for the detection of Rifampicin resistance in MCOBACTERIUM TUBERCULOSIS(mtb) in MTB positive human specimen/culture, MTB Rif resistsnce capability Not available
	MTB-RIF chip should have flash memeory to retain information and standard curve values for automatic	Yes	Yes, NA if not available in system

	quantitative determination		
	The MTB-RIF chip should contain target sequence of RRDR region of the rpoB gene(between codon positions 509 and 533) representing mutation hot slots known to be related to Rifampicin resistance	Yes	Yes, NA if not available in system
	No of rapid diagnostic chips supplied with system for other diseases	COVID-19 (50 nos)	Malaria(50 Nos), Dengue(50 Nos), H1N1(50 Nos), HbsAg(50 Nos), HCV(50 Nos), COVID-19 (200 nos), COVID-19 (50 nos), Not supplied
	No of Reagent pack containing ready to use buffers for automatic sample extraction	50	*
	Cartridge pack with a fluidic cartridge to move sample and buffers through a proprietary matrix for extracting nucleic acids from the sample	Yes	*
	No of Disposable transfer pipette	50	*
	Liquefaction buffer to liquefy the sample	Yes	*
	Lysis buffer to lyse the cells and release nucleic acids	Yes	*
Miscellaneous Parameters	Remaining shelf life at time of delivery of consumables supplied with system should not be less than 5/6th of total shelf life	Yes	*
	Manufacturing Licence No and date(Issued by CDSCO) for the equipment	MFG/IVD/2019/000018 DATED 12062019	*
	Drug Licence No and date for (issued by CDSCO) for the	MFG/IVD/2019/000003 DATED 08022019	*

reagent chips for TB screening and resistance		
Drug Licence No and date for (issued by CDSCO) for the reagent chips for Covid Testing	MFG/IVD/2019/000018 DATED 04042020	*
Drug Licence No and date for (issued by CDSCO) for the reagent chips for other diseases	MFG/IVD/2019/000003 DATED 08022019	*
The range of relative humidity(in percentage)	10-990	*
The range of operative temperature(in degree centigrade)	15-35	*
Power consumption of system	15	*
Power cord	Minimum 5 m with a plug suitable to 5amp/15amp indian plug	*
Type of battery used	Lithium ion battery	*
Minimum mains/battery back up time(in Hrs) of the system	4 or more	*
Capability to work in all enviornmental conditions in subcontinent of India	Yes	*
Weight of the complete system	9	*
Comprehensive Warranty	2	2
Printer supplied with the system	Thermal	*
Wireless data transfer capacity with GSM network	Yes	*
List of spare parts with the existing price at the time of supply of the equipment to be furnished to buyer/consignee	Yes	*
User technical	Yes	*

	/Maintenance manual to be supplied in English and regional language in hard and soft copy		
	Installation,demonstration and training to be provide at consignee end	Yes	*
	Principal manufacturer should have direct presence/approved service centers in India	Yes	*
	Toll free call centers to be available	Yes	*
	Copies of reports and certifications to be furnished to buyer on demand at time of supplies	Yes	*
	Portability	Yes	*
	Mobile	Yes	*
	Battery Operated	Yes	*
	WHO endorsed	Yes	*
	ICMR Endorsed	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	Prasanta Keshari Pradhan	759147,NTPC TSTPS,STORES,DEEPSIKHA,DIST-ANGUL,ODISHA-759147	1	30

Special terms and conditions for category Real time micro PCR

1. (i) 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.(ii) 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.(iii) 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 .(iv) Packing and Marking: Medical equipments being very delicate and sensitive packing for the goods should be strong and durable enough to withstand transit including transhipment (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 in to 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.(v) 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(vi) 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.(vii) 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.(viii) Software: All software updates should be provided free of cost during warranty period

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)
2. 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.

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. 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 7 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-imberse the cost of such service / rectification to the Buyer.

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. CMC shall not be including the consumables. 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 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 options up to 5 years can be chosen for CMC charges beyond warranty period.

7.The CMC functionality shall be available in bid only and no direct RA shall be applicable. In case of bid to RA 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.

7.1. Buyer shall indicate number of years of warranty by selecting option of 2 or 5 available in the field depending on warranty parameter applicable in category parameters for the equipment. 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 first year after warranty period – Percentage to be indicated- A 1
- CMC charges for second year after warranty period – Percentage to be indicated A2

- CMC charges for third year after warranty period – Percentage to be indicated A3
- CMC charges for fourth year after warranty period – Fixed amount to be indicated A4
- CMC charges for 5th year after warranty period – Percentage to be indicated A5

7.2. The calculation of CMC Charges shall take in to account of number of years of warranty and duration of CMC as specified while creating bid.

7.3. 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 warranty. The formula for calculating total cost including CMC charges shall be :

Total cost for evaluation= C+ C*(A1/100) /(1.10n) + A2/100/(1.10n+1)+ A3/100/(1.10n+2)+ A4/100/(1.10n+3) + A5/100/(1.10n+4)
C – Cost for equipment quoted and n shall be number of years of warranty specified
If 2 year warranty specified n shall be 2 and if 5 year specified n shall be 5.

A1,A2 A3 A4 A5 shall depend on how many years CMC selected If 3 year means only A1,A2 and A3 factor to be not taken in to account and A4 and A5 will not be applicable

7.4. CMC charges to be indicated for each subsequent year should be same or higher than preceding year.

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

8. 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 and not on basis of cost of equipment along with CMC Charges.

9. Performance bank guarantee applicable for CMC is to be submitted at start of the CMC and shall be applicable 2.5% as specified in bid on the total contract value including 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.

10. In case of splitting of quantity equipment cost and CMC charges offered by L-1 in the evaluated cost shall be matched by higher quoting eligible bidders on one to one basis .The equipment cost shall be matched and CMC charges shall be matched year to year.

11. 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.

12. The above terms and conditions shall be part of the bid as well as part of the contract.

This Bid is also governed by the General Terms and Conditions

---Thank You---