

 BHEL, BHOPAL	(TENDER No. HSE/TESTING/2019-20/W4)		REV 00		
	HEALTH SAFETY & ENVIRONMENT ENGINEERING		DUE DATE:		
	SCOPE OF WORK AND QUALIFYING CONDITIONS		BIDDER QTN NO.		
NOTE					
The "offered" column and where applicable, the "Deviation" & "Remarks" column of this format shall be filled in by the bidder and submitted along with the offer. Inadequate/incomplete, ambiguous, or unsubstantiable information against any of the clauses of the specifications/ requirements can lead to rejection of offers.					
NAME & ADDRESS OF THE BIDDER:					
TELEPHONE NOS:					
FAX NO:					
E MAIL ADDRESS:					
SCOPE: HYDRAULIC PRESSURE TESTING OF FIRE EXTINGUISHERS AS PER IS 2190:2010					
Sl.No.	DESCRIPTION	TO BE CONFIRMED BY BIDDER	OFFERED	DEVIATION	REMARKS
1	GENERAL				
1.1	Hydraulic pressure testing of fire extinguishers as per IS 2190:2010 at CISF-Fire station inside BHEL, Bhopal	To Confirm			
1.2	General Servicing of extinguishers, repainting and labelling of fire extinguishers	To Confirm			
1.3	Replacement of defective consumable spare parts and refilling of extinguishers	To Confirm			
2	REPORTS TO BE SUBMITTED BY BIDDER ON COMPLETION OF TEST				
2.1	The bidder shall after satisfactory completion of testing shall submit the test certificate in proper format Bidder has to arrange test certificate from competent person for refilling of CO2 cartridge at their own cost	To Confirm			
3	DETAILED SCOPE OF WORK FOR FIRE EXTINGUISHERS				
3.1	Emptying of fire extinguisher and storing of extinguishing media in proper segregated manner	To Confirm			
3.2	Inspection and maintenance of following parts of fire extinguisher	To Confirm			
3.2.1	Sealing disc/washer	To Confirm			
3.2.2	b. Nozzle, strainer, vent holes, internal discharge tube	To Confirm			
3.2.3	c. Spring tension	To Confirm			
3.2.4	d. Pitch inspection of cap assembly thread	To Confirm			

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3.2.5	e. Checking of the operating mechanism for free movement and piercing mechanism	To Confirm			
3.2.6	f. Syphon tube/discharge nozzle	To Confirm			
3.2.7	g. Discharge tube	To Confirm			
3.2.8	h. Weighing of gas cartridge and refilling if required	To Confirm			
3.2.9	i. Thoroughly cleaning of all the components	To Confirm			
3.3	Removal of surface paint and stickers	To Confirm			
3.4	Cleaning of extinguisher with pressurized dry air jet before testing	To Confirm			
3.5	Hydraulic pressure testing of extinguisher with cap assembly	To Confirm			
3.6	Re-cleaning of extinguisher with pressurized dry air jet after testing	To Confirm			
3.7	Painting				
3.7.1	Re-painting (spray-painting) of fire extinguisher with one coat red-oxide and two coats PO Red synthetic enamel paint on external surface	To Confirm			
3.7.2	Repainting of internal surface with epoxy paint for anti-corrosion	To Confirm			
3.7.3	Painting of Gas cartridge with epoxy paint for anti-corrosion	To Confirm			
3.7.4	Painting of Cap assembly with Black synthetic enamel paint	To Confirm			
3.7.5	Renumbering with good quality white paint	To Confirm			
3.8	Replacement of defective consumable spare parts				
3.8.1	Rubber washer of cap assembly	To Confirm			
3.8.2	Dischage tube and tube washer	To Confirm			
3.8.3	Inner container	To Confirm			
3.8.4	Rubber washer and flap of inner container	To Confirm			
3.8.5	Safety clip	To Confirm			
3.8.6	Squeeze grip	To Confirm			
3.8.7	High pressure tube with connector	To Confirm			
3.8.8	Trolley wheel	To Confirm			
3.9	Pasting of durable and laminated stickers of 03 types (suitability, inspection chart & extinguishing media level). Date of hydrotesting, date of re-filling and nest due date to be endorsed of the sticker	To Confirm			
3.10	Assembling and refilling of fire extinguishers, it must be ensured that all joints are fully tightened and the nozzle vent holes are free of dust/dirt.	To Confirm			

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4	Test procedure and safety precautions	To Confirm			
4.1	<p>Fire extinguishers should be hydraulically tested with cap as per laid down procedure of following standard:</p> <p>Fire extinguisher, water type (gas cartridge), IS 940 and IS 13385</p> <p>Fire extinguisher, Water type (Stored pressure), IS 6234</p> <p>Fire extinguisher, Mechanical foam type (gas cartridge), IS 10204 and IS 13386</p> <p>Fire extinguisher, Mechanical foam type (Stored pressure), IS14951 and IS 15397</p> <p>Fire extinguisher, dry powder type (stored pressure), IS 13849</p> <p>Fire extinguisher, dry powder type (gas cartridge), IS2171 and IS 10658</p> <p>Fire extinguisher, dry powder type for metal fires, IS 11833</p>	To Confirm			
4.2	After hydraulic testing, all traces of water and moisture must be removed from the extinguishers preferably by use of a suitable cylinder dryer, while taking care that the temperature within the shell does not exceed 65°C	To Confirm			
4.3	In case of gas cartridges, if there is loss of more than 10% of original mass, these should be re-charges. At the time of recharging the cartridge, the cartridge should be tested for hydraulic test according to the provisions of the relevant Indian standards and should be re-used only subject to passing of requirement	To Confirm			
4.4	The rejected fire extinguishers should be cut centrally across the body and made unusable before disposal so as to prohibit their subsequent use	To Confirm			
4.5	Hydraulic testing should be conducted by hydrostatic test pump preferably power operated, capable of producing not less than 150% if the test pressure which shall include appropriate check valve and fittings	To Confirm			
4.6	The machine should have a flexible connection for attachment to fittings to test through the extinguisher nozzle, test bonnet, to hose outlet, as is applicable.	To Confirm			
4.7	Hydro-testing should be conducted in a protective cage or barrier for personal protection of the tester, designed to provide visual observation of the extinguisher under test.	To Confirm			
4.8	All identified faulty spare parts are to be replaced in presence of BHEL/CISF representative. The list of faulty parts replaced is to be cross verified by BHEL representative. The spare parts shall comply to relevant standards and its documentation is to be submitted along with final handover of extinguisher.	To Confirm			

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4.9	All the test should be done in presence of CISF Fire service personnel at BHEL Fire Station	To Confirm			
4.10	Hydrostatic test will be done in lots and after completion of one lot, these will be inspected by CISF Fire officer and after passing the inspection only part payment will be released	To Confirm			
4.11	Spare parts identified are to be replaced by the bidder at pre decided costs.	To Confirm			
4.12	Extinguishers failing to pass the hydrostatic test will be rejected and no further work is to be carried on those extinguishers. Charges for hydraulic testing will be released for these extinguishers only.	To Confirm			
5	PRE QUALIFICATION CRITERIA				
5.1	<p>i) Bidder's average financial turnover during the last 3 years, ending 31st March of 2019, should be at least 5.18 Lacs. Audited P&L account to be enclosed</p> <p style="text-align: center;">AND</p> <p>ii) Bidder's successful experience of carrying out similar work at public/private manufacturing organisation or process industry during last 7 years ending last day of June'20 should be either of the following</p> <p style="padding-left: 40px;">a. Three similar completed works costing not less than 6.91 Lacs.</p> <p style="text-align: center;">OR</p> <p style="padding-left: 40px;">b. Two similar completed works costing not less than 8.64 Lacs.</p> <p style="text-align: center;">OR</p> <p style="padding-left: 40px;">c. One similar completed work costing not less than 13.83 Lacs.</p> <p>Note: Copy of supporting documents like work order, work completion certificate may be enclosed. Bidders quoting experience of private firms may enclose supporting documents of payment details (bank transactions, TDS details, etc.) of the executed work.</p>	To Submit			
5.2	Similar work means Hydraulic Testing of pressure vessels/ Testing & certification of power press/Hydraulic testing of pipelines(Steam, Steam Condensate, Gases, Compressed Air line)/ Hydraulic Testing of pressure parts of Boiler only/ Work on pressure pipelines/ Work on vacuum pressure oven/ work on pressurized vessels/repair and maintenance of extinguishers/ refilling of CO2 extinguishers.	To Confirm			

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5.3	The bidder should meet statutory requirements of Central/State Govt. Like GST Registration and Permanent Account Number as applicable	To Confirm & Submit			
5.4	The bidder should have PF no. and ESI No./Medical Policy covering the workforce deputed for executing the contract	To Confirm & Submit			
6	TERMS AND CONDITIONS				
6.1	Offer to be submitted in two part bid system (Techno-commercial Unpriced Bid and Price Bid) both in separately sealed envelope and submitted in one sealed covering envelope	To Confirm			
6.2	Submission of Data/Evidence: Under the tendered specifications sheet, wherever bidder is required to submit data, evidence etc., of conformace with BHEL specification parameters, the same shall be separately submitted to BHEL along with Techno-Commercial offer in a signed document.	To Confirm			
6.3	Subcontracting and subletting of the contract is not allowed.	To Confirm			
6.4	Total Time Period: Bidder has to complete the entire work of as described above in 16 weeks from the date of issue of Work order.	To Confirm			
6.5	All consumables like enamels, paint, primer, safety valves, pressure gauges, brush, gaskets, O rings, teflon tapes, hold tights, nuts, bolts,etc are to be arranged by the bidder before start of work. Arrangement of all required tools & tackles is in bidders scope.	To Confirm			
6.6	Bidder to engage only workers who have experience in hydraulic testing and safety of workmen is in bidders liability. All safety equipments to be arranged by the bidder and is to be worn by the workmen during course of work.	To Confirm			
6.7	Bidder to depute a supervisor(Minimum qualification: Diploma) to supervise the work and instruct the workmen.	To Confirm			
6.8	Bidder to visit the site to physically assess the nature & quantum of work, before submission of offer	To Confirm			
6.9	All necessary permits are required to be obtained from HSE department before start of work	To Confirm			
6.10	Bidder has to engage sufficient manpower on regular basis for the above work during General shift working(8:00 AM to 5:00 PM) on all weekdays. In case of urgent work, it can be carried out on sundays/holidays with written permission.	To Confirm			

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6.11	Bidder to ensure that the workmen deployed in the premises of BHEL are physically and mentally fit and do not have any criminal record.	To Confirm			
6.12	Bidder shall keep a record of all extinguishers handed over by them after testing and submit the details to HSE on weekly basis.	To Confirm			
6.13	Bidder shall sign and stamp on each page of BHEL Specification as a proof of acceptance.	To Confirm			
6.14	Price Bid to be submitted in a separate envelope marked as "Price Bid"	To Confirm			
6.15	The offer should be valid for a period of 90 days from tender opening date.	To Confirm			
6.16	To be submitted along with this tender:- With techno-commercial bid (in an envelop marked "Techno-Commercial Bid") Supporting Documents:- a) Copy of all the work orders & P&L account to prove conditions at Clause 5 b) Copy of GST Registration & PAN Card	To Submit			
6.17	Penalty for delay in project completion:- The above work has to be carried out within 16 weeks from date of issue of workorder. Penalty for delay , shall be levied at 0.5% per week of the total contract value, subject to maximum of 10% of the total contract value. GST on penalty shall be extra.	To Confirm			
6.18	BHEL reserves to itself, the following rights without entitling the bidder to any compensation:- Resorting to any, some, all of the actions like Contract Termination, recovering the dues/losses from the Security Deposit and the Contract amount, forfeiting the Security Deposit, getting the work done through other agencies at the cost of the Contractor, cancellation of registration, banning the business with BHEL etc., in any event of the followings: a) Contractor's repeated poor performance, withdrawal from or abandonment of the work, except in force majeure conditions b) Serious lapse in performance, Persistent disregard of the BHEL instructions. c) Failure to conduct the audit within stipulated time period. d) Assignment, transfer, subletting of the contract work. e) Non -fulfillment of any contractual obligations or obligations under the law.	To Confirm			

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7	WITNESS OF TESTING				
7.1	Testing of extinguishers will be witnessed by BHEL/CISF representative and the certificate to be issued accordingly.	To Confirm			
7.2	The extinguisher shall be released for testing only with the consent of Inspector CISF-Fire, to avoid any kind of inconvenience in fire mitigation.	To Confirm			
7.3	Bidder's supervisor should be present especially when the test is in progress	To Confirm			
8	TERMS OF PAYMENT				
8.1	Payment may be regulated as follows, subject to the deductions towards security deposit, income tax with surcharge, any other tax or levies applicable and recoveries towards materials/ services rendered on chargeable basis.	To Confirm			
8.2	All the payments shall be released by BHEL through electronic pay mode only.	To Confirm			
8.3	Running/ Final bills to be submitted in duplicate, which will be duly verified, checked and forwarded by concerned engineer to Finance Department for further checking, passing of bill and releasing payment to the party. No Advance payment will be made.	To Confirm			
9	EVALUATION OF OFFER				
9.1	No condition or deviations should be asked for in price bid.	To Confirm			
9.2	The work is indivisible and total work shall be ordered on the L1 bidder (single party) who quotes the lowest rate in totality.	To Confirm			
9.3	The quoted prices should be firm. No variation in price shall be allowed.	To Confirm			
9.4	If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract, if awarded and forfeit the Security Deposit.	To Confirm			
9.5	In case, multiple L1 offers are received then the bidder having more turn over in previous year (2018-19) shall be treated as L1 and order shall be placed on that bidder.	To Confirm			

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10	OTHER CONDITIONS				
10.1	BHEL reserves the right to cancel/short close this tender without assigning any reason whatsoever and in such cases no bidder shall have any claim arising out of such action.	To Confirm			
10.2	The bidder has to assume full responsibility of the safety of workmen deployed and to comply with the security/ safety regulations of BHEL and others, inside/ outside the BHEL factory	To Confirm			
10.3	BHEL reserves the right to extend the contract after expiry of initial period. The extension will be decided on mutually agreed terms & condition and will be valid only after written communication to this effect.	To Confirm			
10.4	Lodging, Boarding, Transport Assistance will be in bidders scope	To Confirm			
10.5	GST shall be applicable as extra. Any loss of credit or additional liability of tax on BHEL due to the reason attributable to the bidder shall be recoverable from them alongwith applicable interest	To Confirm			

Seal and Signature of Bidder