

TTTD-106-1 Rev No. 5 Form No.		PROJECT ENGINEERING & SYSTEM DIVISION BHEL, HYDERABAD –32.			PY51283
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<u>TECHNICAL SPECIFICATION</u> <u>FOR</u> <u>FIRE EXTINGUISHERS</u>					
Revisions : Prepared by: Checked by: Approved By: Date					
02	D V PRASHANT KUMAR	P CHANDRASEKHAR	M N SRINIVASA RAO	17/07/2017	

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.		1. INTENT OF SPECIFICATION: The intent of this document is to establish the minimum requirement of design, engineering, supply, selection, selection, manufacture, assembly, inspection, shop testing, shop painting, transportation and delivery at site. The equipment and supply shall conform to high standard of engineering and applicable codes/standards and shall be capable of performing intended operation in a manner acceptable to the Purchaser and end customer 2. SPECIAL NOTES TO BIDDERS 2.1. In case of any discrepancy arising between this specification & its enclosures, the most stringent of all (as determined by purchaser) shall be followed. Further, if a requirement in this specification or any of the enclosures, calls for a decision from the Purchaser, it shall be bidder's sole responsibility to clearly bring out/highlight the same distinctively in his pre-bid queries, so as to enable purchaser to furnish their decision/clarification. If such issues/requirements are not duly addressed by bidder during the pre-bid stage and if such issues/requirements are observed later during order execution stage, it shall be binding on the bidder to comply with the final decision made by the purchaser subsequently, without any other commercial implications. 2.2. All materials supplied under this contract shall be new and unused. All equipment connected with the above systems shall be ISI, UL or FM marked as per material code indicated as per variant table and enquiry. 2.3. All mounting hardware/ accessories/fittings etc. required for the completion of supply and installation of fire extinguishers shall be included in the scope of bidder and the same shall be included in the base price even if such items are not explicitly mentioned in this specification. 2.4. The Bidder shall accept full responsibility for the completeness and for the faultless working of all the Portable fire extinguishers as a whole. 2.5. Bidder offer shall be strictly as per these specification requirements. Unsolicited or Alternate offers from the bidders will not be entertained. 2.6. All such clarifications required by the bidder shall be intimated to BHEL together as a single notice within a week of receipt of enquiry by bidder. 2.7. The design information, specifications and drawings indicate the "Minimum" requirements and are intended to enable Bidders to ascertain the extent of the work		
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.		involved. Bidders are expected to supplement the information included in this specification as required and submit a comprehensive bid. 3. BIDDER'S SCOPE OF SUPPLY : The scope of supply includes Selection, manufacture, assembly, inspection, shop testing, painting, proper packing, transportation up to project site of all the fire extinguishers as per technical requirements as per relevant standards. i. Bidder to quote for the item with material code as mentioned in the enquiry. Relevant technical parameters of the material code/item shall be as per the variant table and their relevant clauses of this specification. ii. Bidder to include all the first fill consumables like DCP, CO2, Foam etc. till successful handing over of Portable fire extinguishers to BHEL. iii. Price of these items shall be construed to be included in the main package price. No separate price for the same shall be offered. iv. Any equipment not specifically mentioned above but if required for satisfactory operation of Portable fire extinguishers and to meet desired intent of specification shall be included in scope of supply of bidder. v. Spare chargers like chemicals, gas cartridge etc. shall be as per relevant IS codes. 3.1. <u>ERECTION & FIXING HARDWARE:</u> i. The bidder shall furnish a complete set of all erection & fixing hardware like nuts, bolts, brackets etc. with necessary tools boxes as required for operation and maintenance of the portable fire extinguishers supplied, as a part of scope of supply. ii. 1 set of tools and tackles required for maintenance and repairs of the Portable fire extinguishers shall be included in the bidder's scope. Such list of tools and tackles shall be furnished by bidder in his offer. The tool kit shall be supplied in an exclusive pack. iii. The necessary trolleys and mounting fixtures to mount fire extinguishers shall be included by the bidder in his scope. iv. All supporting arrangements such as clamps, wall hanging supports, and any other item required for the housing and successful usage of the portable fire extinguisher shall be in bidder's scope.		
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.		❖ IS 3224: Valve Fittings for Compressed Gas Cylinders Excluding Liquefied Petroleum Gas (LPG) Cylinders – Specification ❖ IS 1079: Hot Rolled Carbon Steel Sheets and Strips - Specification ❖ IS 318: Specification for Leaded Tin Bronze Ingots and Castings ❖ IS 5382: Specification for Rubber Sealing Rings for Gas Mains, Water Mains and Sewers ❖ IS 319: Free Cutting Brass Bars, Rods and Sections – Specification ❖ IS 4947: Gas Cartridges for Use in Fire Extinguishers – Specification ❖ IS 513: Cold Rolled Low Carbon Steel Sheets and Strips ❖ IS 3601: Steel Tubes for Mechanical and General Engineering Purposes – Specification ❖ IS 14609: Dry chemical powder for fighting ABC class fires — Specification ❖ IS 15222: Carbon dioxide as fire extinguishing media for fire protection — Specification The UL/FM approved fire extinguishers shall be as per the requirements of the following codes: ❖ NFPA 10: Standard for Portable Fire Extinguishers 5.2. <u>STATUTORY REQUIREMENTS:</u> Requirements of the following local statutory authorities (as applicable) shall be taken into account for compliance as per the variant/ material code requirement: i. Tariff Advisory Committee (TAC) Guidelines (for Insurance purposes) ii. Petroleum & Explosives Safety Organization iii. Bureau of Indian Standards approval iv. NFPA-10 v. UL/FM <u>NOTES:</u> i. All addenda including the latest addenda to all the above codes and standards (latest editions) shall be followed by the bidder. ii. All the legal formalities including preparation of documents, furnishing clarifications, information etc. as and when required, for obtaining any of the permissions and approvals related to the Portable fire extinguishers will have to be done by the bidder. 6. PAINTING The color of the fire extinguishers shall be shade mentioned in the relevant IS or NFPA codes as applicable for the variant.		
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.	7. INSPECTION AND TESTING 7.1. Bidder shall maintain an effective Quality Assurance System to ensure that all equipment and material supplied meets high Quality standards. 7.2. After award of contract, bidder shall submit Quality Plan for BHEL's approval. 7.3. Bidder to note that all the cost involved in any of the inspection & testing requirements as per the approved quality plan shall be included in the basic price quoted by the bidder. Bidder shall not be eligible to raise any extra claim on account of any inspection & testing of the complete Portable fire extinguishers as per the approved quality plan. 7.4. The following are the minimum tests to be conducted on the portable fire extinguishers: i. Dimension & Visual test ii. Hose pressure test iii. Hydro test iv. Performance test v. Painting & Marking vi. Material test certificate review Any other test as mentioned in approved Quality Assurance Plan shall be complied by the bidder. 7.5. Inspection i. Bidder shall notify in writing to BHEL, at least two weeks (Ten working days) in advance of the date and the place at which the items will be ready for witnessing of inspection / testing. In case any postponement becomes necessary, the CONTRACTOR shall provide written notification at least 3 days prior to the original scheduled date. ii. Bidder after satisfying that all inspection requirements as per approved ITP and applicable specifications / documents have been taken care by TPIA, shall submit copy of the Inspection Certificate and all Quality control records to Purchaser in requisite copies along with Statutory Certificates if any, duly endorsed by their Quality Control Manager.		
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	Rev. No.	Date	Revision Details	Prepared By	Checked By	Approved By	
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	01	05/09/2017	REVISED TO ADD NEW MATERIAL CODES	--SD--	--SD--	---SD---	
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