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<u>TECHNICAL SPECIFICATION</u> <u>FOR</u> <u>SUPPLY OF FIRE EXTINGUISHERS</u>											
						Revisions :		Prepared by:	Checked by:	Approved By:	Date
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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. The Fire Extinguishers shall be as per Bangladesh standards or equivalent international standards like ISO/ UL/ FM etc. 2. SPECIAL NOTES TO BIDDERS 2.1. This specification shall be read in conjunction with all its annexures. 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 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. 2.3. The Bidder shall accept full responsibility for the completeness and for the faultless working of all the fire extinguishers as a whole. 2.4. Bidder offer shall be strictly as per these specification requirements. Unsolicited or Alternate offers from the bidders will not be entertained. 2.5. 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. 2.6. The design information, specifications and drawings indicate the "Minimum" requirements and are intended to enable Bidders to ascertain the extent of the work involved. Bidders are expected to supplement the information included in this specification as required and submit a comprehensive bid.		
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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. 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 minimum technical requirements indicated in Annexure-1. 3.1. FIRST FILL OF CONSUMABLES: i. Bidder to include all the first fill consumables like DCP, CO2, Foam etc. till successful handing over of fire extinguishers to BHEL. ii. Price of these items shall be construed to be included in the main package/item price. No separate price for the same shall be offered. iii. Any equipment not specifically mentioned above but if required for satisfactory operation of fire extinguishers and to meet desired intent of specification shall be included in scope of supply of bidder. 3.2. ERECTION & FIXING HARDWARE: 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 fire extinguishers supplied, as a part of scope of supply. ii. 1 set of tools and tackles required for maintenance and repairs of the 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 fire extinguisher shall be in bidder's scope. v. All special tools and tackles required for O & M purpose shall be included by the bidder in his scope. 4. BIDDER'S SCOPE OF SERVICES 4.1. The bidder's major scope of services includes the following: i. Submission and obtaining approval of all engineering documents related to manufacturing of the items, data sheets, drawings etc. ii. Packing & Transportation to project site				
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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.		iii. Coordination and statutory approval from government/non-government bodies/agencies iv. Supply of all test reports /certificates NOTES: - Bidder to note that the above list is not exhaustive and any other service required as per the intent of this specification / project requirements /good engineering practice shall be deemed to be included in bidder's scope without any commercial implication to the purchaser. - In case of defects observed at site during the installation of fire extinguishers, the same shall be rectified/replaced without any additional cost to BHEL. - The cost of the services given in this clause shall be a part of the basic price of the equipment. 4.2. EXCLUSIONS: - Storage, preservation of Materials/Equipment at site. - Erection and Commissioning of Fire Extinguishers. 5. TECHNICAL DETAILS: 5.1. APPLICABLE CODES & STANDARDS: - BDS Codes for fire extinguishers ❖ BDS 825: Specification for Fire Extinguisher (Bangladesh Standard) ❖ BDS ISO 7165 : Fire Fighting- Fire Extinguishers-Performance & Construction ❖ BDS ISO 11602-1 : Fire Protection- & Wheeled Fire Extinguishers Part 1-Selection & Installation ❖ BDS ISO 11602-2 : Fire Protection- & Wheeled Fire Extinguishers Part 2-Inspection The fire extinguishers shall meet the requirements of Bangladesh. 5.2. STATUTORY REQUIREMENTS: Requirements of the local statutory authorities (as applicable) shall be taken into account for compliance and met. Bidder shall also submit valid BSTI license certificate for each type of fire extinguisher.		
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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.		NOTES: 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 fire extinguishers will have to be done by the bidder. 6. PAINTING The color of the fire extinguishers shall be as per the relevant standards mentioned above. 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. The quality plan shall be submitted in BHEL quality plan format (Annexure-5). The quality plan shall be prepared in accordance to the guidelines mentioned in Annexure-4 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 fire extinguishers as per the approved quality plan. 7.4. The following are the minimum tests to be conducted on the 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 (Annexure-5) 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		
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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.		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. iii. In case non-conformity is noted, 100% of the lot shall be checked by TPIA and all the non-confirming materials shall be replaced by the bidder. 7.6. Inspection Certificate i. Bidder shall submit, copy of each Inspection Certificate (IC) / Inspection Release Note (IRN) issued by TPIA, along with all attachments mentioned therein. The IC / IRN shall include the following as minimum: a. Job No. / Project Title / PO. No. / Purchase Specification No., Date of inspection and Status of the visit - Initial / Intermediate / Final. b. Item Tag No. / Name / Total quantity ordered / released / offered for inspection and accepted during the visit. c. Manufacturer's Name Date & Place of Inspection, name of Inspection Agency and Inspection Authority. d. Reference of Documents with Revision status. (It shall be clearly indicated in the inspection certificate that "inspection has been carried out based on code 1 drawings and approved ITP".) e. Verification of calibration documents. f. Details of Inspection carried out. g. Works Certificate with details of Hydrostatic Test and PMI / Leak Tests (if applicable) for Fabricated equipment. h. Works Certificate with details of Performance Test, Mechanical Run Test (if specified in PR) and String Test (if applicable) for Rotating Equipment i. Works Certificate with details of acceptance tests witnessed and Certificate of statutory approvals if applicable, for electrical items j. Works Certificate with details of calibration, and Certificates of statutory approvals if applicable, for instruments. k. Works Certificate with details of Mechanical tests. l. Works Certificate accompanied with details of basis for acceptance, for all other items m. Results of Inspection. n. Deviations, if any.		
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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.		7.7. Inspection agency: i. Purchaser / Third Party appointed by purchaser ii. The inspection agency shall be indicated in the quality plan and shall be as per the approved quality plan. 7.8. Warranty: The Bidder shall provide warranty for the fire extinguishers for a period of 12 months from the date of receipt at site. 8. MARKING , PACKING AND DESPATCH 8.1. Marking i. The markings on the fire extinguishers shall be in line with the requirements as mentioned in the relevant standards mentioned above. ii. All items shall be marked (stamped/etched) in accordance with the applicable code/standard/specification. In addition, the item code, if available, shall also be marked. iii. Paint or ink for marking shall not contain any harmful metal or metal salts which can cause corrosive attack either ordinarily or in service. Special items/smaller items shall have attached corrosion resistant tag providing salient features. 8.2. Packing i. Packing shall be as per Annexure-10. ii. The equipment may be stored outdoors for long periods before installation. The packing shall be completely suitable for outdoor storage in areas with heavy rains/high ambient temperature, unless otherwise agreed. 8.3. Dispatch i. Bidder shall dispatch the fire extinguishers after the receipt of “Dispatch Clearance” from BHEL. ii. Bidder shall make the request for Dispatch clearance well in advance before the expiry of delivery date as mentioned in the Purchase Order. i. No claims of the bidder shall be entertained if the bidder delays his request for dispatch clearance from BHEL.		
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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.			ii. The equipment may be stored outdoors for long periods before installation. The packing shall be completely suitable for outdoor storage in areas with heavy rains/high ambient temperature, unless otherwise agreed. iii. Prior permission from BHEL shall be taken before dispatch of any of the item having shelf life. Bidder to note that any eventual delay on account of this will not be attributable to them.		
			9. DOCUMENTATION: 9.1. Bidder shall submit the list of documents as mentioned in Annexure-3 as per the schedule mentioned. 9.2. Bidder to note that the dates of submission of all the documents shall be finalized by him considering the time required for approval of various documents at Purchaser’s end. It shall be solely bidder’s responsibility to get approval on the entire document from purchaser to meet project schedule. 9.3. Drawings / Documents Review And Approvals i. The bidder’s documentation shall be in accordance with this specification, codes/standards and good engineering practices. The discrepancies/deviations found in documentation of bidder shall be implemented by bidder without commercial implications. ii. Any delay on the part of bidder’s documentation shall be to bidder’s account only. iii. All the dimensions should be in S.I. units. iv. All documents before forwarding to Purchaser will have to be vetted in detail by bidder. Document received without vetting will be returned without review. Also any inaccuracies/mistakes found will not only be rectified by the bidder but the bidder shall remain liable for bearing charges towards efforts spent by Purchaser for discussing the same. Delay owing to these shall be to the account of bidder v. The bidder shall thoroughly review and submit the documents before forwarding to Purchaser vi. Only the approved drawings duly stamped and signed by a competent engineer of bidder shall be submitted to purchaser for review.		
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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.		iii. Bidder shall furnish all documents in A4 Size (210 mm x 297 mm) paper or folded in A4 size unless otherwise specified. All drawings and sketches shall be in multiples of A4 size like A3 (297 mm x 420 mm) or A2 (420 mm x 594 mm) etc., but folded to 'A4' size. iv. Final documentation shall be submitted in bound volumes (6 copies) and softcopy shall be furnished in non - writable CD. v. It has been observed that at times mails fails to deliver because of problem in sender's /receiver's server .Hence it is recommended that bidder shall intimate concerned BHEL personal about any soft copy submission over phone immediately after any drawing / document is submitted for BHEL's review / approval. vi. Hard copies of all the documents shall be forwarded to the following address: Name: (Name will be intimated during awarding of the contract) Address: Bharat Heavy Electrical Limited New PE&SD Building PE&SD RC Puram Hyderabad- 32 vii. Date of receipt of hard copies shall be considered as date of submission of any document. Soft copy submission shall be considered as advance submission of drawing/document viii. Bidder to ensure that all documents are received with in BHEL working hours. Any submission done after normal office hour/ weekly Off/Public Holidays shall be deemed as submitted on next working day. ix. BHEL shall furnish Approval/Observation of Drawings/Datasheet/Design calculation etc. on Soft Copy only. 10. PRICE BID FORMAT 10.1. Price bid format is enclosed as Annexure-2, bidder to furnish the offer inline with the same. 10.2. fire extinguishers System as envisaged in this bid document shall be quoted by the bidder for each line item in the price bid format. 10.3. All the items included in the price bid format shall be quoted as per tender specification and pre-bid clarifications, if any. Responsibility of ensuring correctness &		
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Bidder to note that the above annexures are preliminary in nature .These annexures may get revised and /or new annexures will be furnished to bidder. Bidder to however note that they will not be eligible to raise any extra charges on account of this. <u>VARIANT TABLE (FOR BHEL INTERNAL ONLY)</u> <table border="1"> <thead> <tr> <th>Variant No.</th> <th>Item</th> <th>Material code</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>9 Lit. Pressurized water type</td> <td>PY9751602017</td> </tr> <tr> <td>02</td> <td>5kg CO2 type Fire Extinguisher</td> <td>PY9751602025</td> </tr> <tr> <td>03</td> <td>30kg CO2 type Fire Extinguisher</td> <td>PY9751602033</td> </tr> <tr> <td>04</td> <td>6kg DCP type Fire Extinguisher</td> <td>PY9751602084</td> </tr> <tr> <td>05</td> <td>75kg DCP type Fire Extinguisher</td> <td>PY9751602050</td> </tr> <tr> <td>06</td> <td>10 Lit. Mechanical Foam type Fire Extinguisher</td> <td>PY9751602068</td> </tr> <tr> <td>07</td> <td>130 Lit. Mechanical Foam type Fire Extinguisher</td> <td>PY9751602076</td> </tr> </tbody> </table>				Variant No.	Item	Material code	01	9 Lit. Pressurized water type	PY9751602017	02	5kg CO2 type Fire Extinguisher	PY9751602025	03	30kg CO2 type Fire Extinguisher	PY9751602033	04	6kg DCP type Fire Extinguisher	PY9751602084	05	75kg DCP type Fire Extinguisher	PY9751602050	06	10 Lit. Mechanical Foam type Fire Extinguisher	PY9751602068	07	130 Lit. Mechanical Foam type Fire Extinguisher	PY9751602076
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		00	01/11/2019	ORIGINAL ISSUE	--SD---	--SD---	---SD---
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