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**RECTIFICATION WORKS OF EXISTING WATERPROOFING SYSTEM IN THE  
BASEMENT FLOOR OF BARODA PRIDE, OFFICE BUILDING AT MYLAPORE,  
CHENNAI**

**TECHNICAL  
SPECIFICATIONS  
VOLUME - II**

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## **PREAMBLE**

1. All items of work under this Contract shall be executed strictly to fulfill the requirements laid down under “Basis of Design” in the specifications. Type of equipment, material specification, methods of installation and testing and type of control shall be in accordance with the specifications, approved shop drawings and the relevant Indian Standards, however capacity of each component and their quantities shall be such as to fulfill the above mentioned requirement.
2. The unit rate for all equipment or materials shall include cost in INDIAN RUPEES (INR) for equipment and materials including all taxes and duties and also including forwarding, freight, insurance and transport into Contractor’s store at site, storage, installation, testing, balancing, commissioning and other works required.
3. The rate for each item of work included in the Schedule of Quantities shall, unless expressly stated otherwise, include cost of:
  - a) All materials, fixing materials, accessories, appliances tools, plants, equipment, transport, labour and incidentals required in preparation for and in the full and entire execution, testing, balancing, commissioning and completion of work called for in the item and as per Specifications and Drawings.
  - b) Wastage on materials and labour.
  - c) Loading, transporting, unloading, handling/double handling, hoisting to all levels, setting, fitting and fixing in position, protecting, disposal of debris and all other labour necessary in and for the full and entire execution and for the job in accordance with the contract documents, good practice and recognized principles.
  - d) Liabilities, obligations and risks arising out of Conditions of Contract.
  - e) All requirements of Specifications, whether such requirements are mentioned in the item or not. The Specifications and Drawings where available, are to be read as complimentary to and part of the Bill of Quantities and any work called for in one shall be taken as required for all.
  - f) In the event of conflict between Bill of Quantities and other documents including the Specifications, the most stringent shall apply. The interpretation of the Architect / Consultant /Project Manager shall be final and binding.
4. The Contractor shall procure and bring Materials/Equipment to the site only on the basis of drawings approved for construction and shop drawings and not on the basis of Bill of Quantities which are approximate only. This also applies to the Contractor’s requisition for Owner supplied materials.
5. The contractor shall include for making all the opening in slabs, beams, walls etc. as required for his work. However, the contractor can coordinate with civil work to provide necessary sleeves. All openings shall be closed using water proofing compound or as specified by Project Manager.
6. The work shall be carried out in conformity with the plumbing drawings and within the requirements of architectural, electrical structural and other specialized services drawings.

7. The contractor shall cooperate with all trades and agencies working on the site. He shall make provision for hangers, sleeves, structural openings and other requirements well in advance to prevent hold up of progress of the construction schedule. All supports to the civil structure shall be provided with anchor fasteners.
8. On award of the work, contractor shall submit a schedule of construction in the form of a PERT chart or BAR chart for approval of the Project Manager
9. On award of the work the contractor shall be issued two (2) sets of consultant's drawings. The drawings shall be the basis of contractor's shop drawings.
10. Shop drawings are detailed working drawings coordinated with other trading work, which incorporate the contractor's details for execution of the work and incorporate equipment manufacturer's details and dimensions to ensure that the same can be installed in the space provided.
11. All shop drawings should detail pipe routing and levels, showing location of other services, before execution of the works.
12. All shop drawings will be made on AutoCAD and Coloured prints have to be produced for site work.
13. All rates quoted are inclusive of cutting holes and chases in walls and floors and making good the same with cement mortar / concrete / water proofing of appropriate mix and strength as directed by the Project Manager. Contractor shall provide holes, sleeves, recesses in the concrete and masonry work as the work proceeds. All hot and cold water supply pipes crossing masonry walls of typical guest room toilets shall be provided with GI pipe sleeves. The annular space between the pipe and sleeve shall be filled up with glass wool in between and fire proof sealant on either end after testing.
15. **The contractor shall, from time to time, clear away all debris and excess materials accumulated at the site failing which the same shall be done by Project Manager at contractor's risk and cost and cost of cleanup shall be deducted from the contractor's pro-rata bill(The contractor should remove all debris at free of cost on or before 6.00 a.m on daily basis) .**
16. After the fixtures, equipment and appliances have been installed and commissioned; contractor shall cleanup the same and remove a plaster, paints, stains, stickers and other foreign matter or discoloration leaving the same in a ready to use condition.
17. On completion of all works, contractor shall demolish all stores, remove all surplus materials and leave the site in a broom clean condition, failing which the same shall be done by the Project Manager at the Contractor's risk and cost. Cost of the cleanup shall be deducted from the contractor's bills on pro-rata basis in proportion to his contact value.

**NAME OF WORK: RECTIFICATION WORKS OF EXISTING WATERPROOFING SYSTEM IN THE BASEMENT FLOOR OF BARODA PRIDE, OFFICE BUILDING AT MYLAPORE, CHENNAI**

**LIST OF APPROVED MAKES**

S. no	DESCRIPTION	PREFFERED MAKES
A	<b>RECTIFICATION WORKS OF EXISTING WATERPROOFING SYSTEM IN THE BASEMENT FLOOR OF BARODA PRIDE, OFFICE BUILDING AT MYLAPORE, CHENNAI</b>	

1	Cement PPC 43 GRADE	ZUARI, ACC, COROMANDEL, DALMIA, RAMCO
2.	Bond Coat	M/s Thermax ,M/S Ardex , Dr Fixit, BASF, M/s SIKA, M/s FOSROC, or Equivalent.
3	Admixture for Plastering for waterproofing.	M/s Thermax ,M/S Ardex , Dr Fixit, BASF, M/s SIKA, M/s FOSROC, or Equivalent.
4	Crystalline Protective coating in Internal surfaces for walls and Floors.	M/s Thermax ,M/S Ardex , Dr Fixit, BASF, M/s SIKA, M/s FOSROC, or Equivalent.
5	PU FOAM for Injection Grouting	M/s Thermax ,M/S Ardex , Dr Fixit, BASF, M/s SIKA, M/s FOSROC, or Equivalent.
6	Sealing of Joints – PU sealant	M/s Thermax ,M/S Ardex , Dr Fixit, BASF, M/s SIKA, M/s FOSROC, or Equivalent.

**Note: Contractor shall obtain prior approval of before procurement of the Materials listed above. If the above Brands of Materials are not available, Engineer-in-charge shall allow use of other brand material duly approved by Appropriate Technical Authority (ATA), provided they confirm to the requirement of IS as per Technical Specification/Quality Plan as enclosed with the Tender Document. All the equipment's Test Certificates, Warranty / guarantee Certificates and Technical Specifications should be produced by Contractor.**

# **TECHNICAL SPECIFICATIONS**

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**RECTIFICATION WORKS OF EXISTING WATERPROOFING SYSTEM IN THE  
BASEMENT FLOOR OF BARODA PRIDE, OFFICE BUILDING AT MYLAPORE,  
CHENNAI**

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**TECHNICAL SPECIFICATIONS-**

**RECTIFICATION WORKS OF EXISTING WATERPROOFING SYSTEM IN THE  
BASEMENT FLOOR OF BARODA PRIDE, OFFICE BUILDING AT MYLAPORE,  
CHENNAI**

**1. GENERAL**

This specification is for work to be done, item to be supplied and materials to be used in the works as shown and defined on the drawings and described herein, all under the supervision and to the satisfaction of the Architect.

- 1.1 The workmanship is to be the best available and of a high standard, use must be made of a special trades men in all aspects of the work and allowance must be made in the rates for so doing.
- 1.2. The materials and items to be provided by the Contractor shall be approved with any samples which will be submitted for approval by Contractor and generally in accordance with the specifications. Also if products are specified in the specification and/or bill of brand, trade name or catalogue reference, the Contractor will be required to obtain the approval of the Architect before using the materials. The Contractor shall produce all invoices, vouchers or receipts for any material if called upon to do so by the Client/ Architect.
- 1.3 Samples of all materials are to be submitted to the Architect for approval before the Contractor orders or deliver the materials at site. Sample together with their packing are to be provided free of charge by the Contractor and should any materials be rejected, they will be removed from the site at the Contractor's expense; all samples will be retained by the Client/ Architect for comparison with materials which will be delivered at the site. Also, the Contractor will be required to submit specimen finishes of colors, fabrics etc. for the approval of the Architect before proceeding with the work.
- 1.4 The Contractor shall be responsible for providing and maintaining and boxing or other temporary coverage required for the protection of dresses or finished work if left unprotected. He is also to clean out all shavings, out ends and other waste from all pairs of the works before coverings or in-fillings are constructed.
- 1.5 Only first class workmanship will be accepted. Contractor shall maintain uniform quality and consistency in workmanship throughout.

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**PREAMBLE TO SCHEDULE OF QUANTITIES**

All items of work mentioned in the Schedule of Quantities shall be read and executed strictly in accordance with the description of the item in the Schedule of Quantities, Data sheet, drawing and standard technical specifications read in conjunction with the appropriate IS and conditions of contract. The rate for each item of work included in the bill of quantities shall unless otherwise stated includes cost of:

Supply, installation, testing and commissioning of all materials, fixing materials, accessories, hardware, operations, tools, equipment, consumables, minor civil works wherever involved and incidentals required in preparations for in the full and entire execution and completion of the work called for the item and as per specifications and drawings completely.

Wastage on materials and labour.

All taxes (except GST), duties including, transit insurance, packing and forwarding charges, loading, transportation, unloading handling, hoisting to all levels, setting and fixing in position, disposal of debris and all other labour necessary in accordance with contract documents.

Liabilities, obligations and risks arising out of conditions of contract. Liaison service charges.

All requirements of system whether such of them are mentioned in the item or not in the specifications and drawings are to be read and execute to complete the work up to full operating condition.

In the event of conflict between the bill of quantities and other documents, the most stringent shall apply and interpretations of the Consultant shall be final and binding.

The installation price of switchboards, metering panels, DB's or any other items shall include supply and fixing of supporting steel structures /MS channels grouting of the same civil works etc. as required.



No change in unit rate shall be allowed for any change in quantity or for any other reason whatsoever.

The successful contractors shall submit the Schematic diagrams, fabrication drawings with details of equipment wiring diagrams etc. to consultants for approval prior to supply / commencement of such works. The approval of these drawings will be general and will not absolve to contractor of the responsibility of the correctness of these drawings. At least six copies of the approved drawings supplied to consultant for their distribution to various agencies at site at no cost to employer.

The Tenderers must see the site conditions such as type of soil, locations etc. and take all factors into consideration while quoting the rates as no extra cost will be allowed on any ground arising out or relating to the site conditions.

Any error in description or in quantity or omission of items from the contract shall not vitiate this contract but shall be corrected and deemed to be a variation required by the consultant / client.

**PREAMBLE TO B.O.O.**

1. The quoted rate shall be all inclusive and cover the cost of material including wastage, freight, all types of taxes, duties, royalties, erection, construction, testing of materials, samples brought for approval, tools and tackles, plant and equipment, supervision, Overheads, profit and any other expenditure incurred for completion of work as per drawings, specifications and to the full satisfaction of Client/ Architect.
2. The rates quoted shall be valid for working at all heights, depths and on all floor levels. No extra payment shall be made for scaffolding, staging, ladders etc. for transportation of men and material at higher or lower levels.
3. The item rate specifications are indicative. The Contractor will have to carry out the work in accordance with the drawings, technical specifications and/or other conditions laid down in tender document and to the full satisfaction of Client / Architect.
4. Quantities mentioned against respective items are approximate and can vary. Payment shall be made on actually executed quantities.
5. No claims shall be entertained in case of increase or decrease in quantities. Client/ Architect reserve the right to increase/ decrease quantities of any item and also to add/delete any item in totality.
6. After completion of work the site shall be handed over absolutely clean, after ensuring that all laminates, floors, carpet, walls, etc. as spotless clean.
7. Rates of all items shall remain constant irrespective of floor level and no extra shall be paid for handling and stacking of material, removing debris etc. from the site.
8. Contractor shall clean the site and mark the lining out on mixing by mixer machine, compaction by mechanical vibrator, cost of mix design and testing cubes etc.
9. Unless otherwise noted, the method of measurement will be as per I.S. 1200 (for method of measurements technical specification may be referred).
10. Client/ Architect reserve the right of operating all "Quote Rate Only" items.
11. Wherever contractor proposed to use 'equivalent' makes (i.e. other than specified) he shall obtain Architect prior approval. Any additional cost and time lost due to this will be on Contractor's account and no claims will be entertained.
12. **The contractor should take approval for make & manufacturer from the Architect/PMC/Bank before using any material which does not appear in the list of approved manufacturer**