

**Name of work:** 2216 S.R. to 30 Judges Bungalows at Bodakdev, Ahmedabad.

Replacing damaged Compound Wall in Hon'ble Chief Justice Bungalow at Bodakdev, Ahmedabad.

## **SPECIFICATIONS**

### **Item No. 1**

Demolition of Brick work and stone masonry including stacking of serviceable material and disposal off unserviceable materials with all lead and lift [II] In Cement Mortar.

Relevant specification shall be followed of General Technical Specification booklet It. No. 20.11 (II) / Page No.148 in General Technical Specifications for building work.

### **Item No. 2**

Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work.

Relevant specification shall be followed of General Technical Specification booklet It. No. 20.3 / Page No.147 in General Technical Specifications for building work.

### **Item No. 3**

Dismantling steel work including distempering and stacking the materials with all lead and lift.

Relevant specification shall be followed of General Technical Specification booklet It. No. 20.43/ Page No.150 in General Technical Specifications for building work.

### **Item No. 4**

Dismantling of sheet roofing including ridges, Hips, Valleys, Gutters etc. stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(i) G.I./FRP sheet roofing.

Relevant specification shall be followed of General Technical Specification booklet It. No. 20.27(i) / Page No. 149 in General Technical Specifications for building work.

## **Item No. 5**

Providing, fixing and removing M.S baricadding 2.7 m high made from 0.5 mm thick Ridge Flashing precoated GI sheet with Fabrication of 63.5x63.5x 3.2mm vertical pipe post every 3.65m center to center and 3 nos horizontal 40x40x3.2 mm square pipes for framing / support. including all kind of accessories, fittings, excavation for foundation and Cement concrete 1:2:4 etc. complete.

### **1. Scope of Work**

Supply of all materials, Fabrication and welding work, Excavation for foundations, PCC foundation work, Erection and alignment, Fixing of G.I. sheeting, Painting and protective coating, Necessary hardware and fasteners, Maintenance during contract period, Dismantling/removal after completion, Disposal of debris and making good the site

### **2. Materials**

#### **2.1 Vertical Posts**

- Vertical posts shall be fabricated from M.S. hollow square pipe sections of size:
  - 63.5 mm × 63.5 mm × 3.2 mm thick
- Posts shall be placed at maximum spacing of:
  - 3.65 m center to center
- Steel shall conform to relevant IS standards.

#### **2.2 Horizontal Members**

- Horizontal framing members shall consist of:
  - 40 mm × 40 mm × 3.2 mm thick M.S. square pipes
- A minimum of:

- 3 Nos. horizontal members

shall be provided continuously between vertical posts.

## **2.3 Barricading Sheets**

- Barricading surface shall be clad with:
  - 0.50 mm thick pre-coated G.I. ridge flashing sheets
- Sheets shall be:
  - Factory pre-coated
  - Corrosion resistant
  - Free from dents, bends and damages
- Color shade shall be approved by Engineer-in-Charge.

## **2.4 Fasteners & Accessories**

The work shall include:

- Self-drilling/self-tapping screws
- Nuts, bolts and washers
- Clamps, cleats and brackets
- Welding electrodes
- End caps and stiffeners where required

All accessories shall be corrosion resistant.

## **3. Fabrication**

### **3.1 General**

- Fabrication shall be carried out true to line, level and dimensions.
- All cuts, holes and joints shall be neat and clean.

- Welding shall conform to relevant IS codes.

### **3.2 Welding**

- Welding shall be continuous and uniform.
- Slag shall be removed and weld joints ground smooth.
- Defective welds shall be rectified at contractor's cost.

## **4. Foundation Work**

### **4.1 Excavation**

- Excavation shall be carried out for each post foundation to required dimensions and depth.
- Excavated material shall be disposed of properly.

### **4.2 Cement Concrete Foundation**

- Foundations shall be provided in:
  - **Plain Cement Concrete 1:2:4**  
(1 Cement : 2 Coarse Sand : 4 Graded Stone Aggregate)
- Foundation size shall be adequate to ensure rigidity and stability of barricading.

## **5. Erection & Fixing**

- Barricading shall be erected true to alignment and properly plumbed.
- Sheets shall be securely fixed to framing members.
- No rattling, waviness or loose fixing shall be permitted.
- Barricading shall withstand normal wind loads and site usage conditions.

## **6. Surface Preparation & Painting**

### **6.1 Steel Treatment**

- Steel surfaces shall be cleaned from rust, oil, grease and mill scale.

## 6.2 Protective Coating

Unless galvanized sections are used, all exposed steel members shall receive:

- One coat of metal primer
- Two coats of approved synthetic enamel paint

Color shall be as approved.

## 7. Dismantling & Removal

After completion of work or as directed:

- Barricading shall be carefully dismantled.
- Materials shall be removed from site.
- Foundations shall be broken where required.
- Ground shall be restored to original condition.

### 8. Mode of measurement and payment:

8.1. The work shall be measured in actual area of work done.

8.2. The rate shall be for a unit of one Sqm.

## Item No. 6

Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (C) Hard Murrum (Executed with Manual Labour).

Relevant specification shall be followed of General Technical Specification booklet It. No. 4.0.0(C) / Page No. 29 in General Technical Specifications for building work.

## Item No. 7

Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposed layer by ramming and watering.

Relevant specification shall be followed of General Technical Specification booklet It. No. 4.12 / Page No. 35 in General Technical Specifications for building work.

### **Item No. 8**

Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth.

Relevant specification shall be followed of General Technical Specification booklet It. No. 5.3.13 / Page No. 40 in General Technical Specifications for building work.

### **Item No. 9**

Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete.

Relevant specification shall be followed of General Technical Specification booklet It. No. 5.8.3(A) / Page No. 47 in General Technical Specifications for building work.

\* If M. 9.1(A) / Page No. 63

### **Item No. 10**

Providing and laying ordinary cement concrete 1:1:2 (1- Cement 1- coarse sand : 2- graded stone aggregates 20 mm nominal size) and finishing smooth with, curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C work in (A) Beams/Coping:(ii) Having cross-sectional area more than 0.08Sq.M and upto 0.12 Sq.M.

Relevant specification shall be followed of General Technical Specification booklet It. No. 5.00.6A(II) / Page No. 49 in General Technical Specifications for building work instead of 1:2:4 cement concrete, 1:1:2 ordinary cement concrete shall be used.

### **Item No. 11**

Providing and laying ordinary cement concrete 1:1:2 (1- Cement 1- coarse sand : 2- graded stone aggregates 20 mm nominal size) and finishing smooth with curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C work in (B) COLUMNS: (i) Having cross-sectional area 0.05 to 0.08 Sq.M

Relevant specification shall be followed of General Technical Specification booklet It. No. 5.00.6B(I) / Page No. 49 in General Technical Specifications for building work instead of 1:2:4 cement concrete, 1:1:2 ordinary cement concrete shall be used.

### **Item No. 12**

Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete up to floor two level.

Relevant specification shall be followed of General Technical Specification booklet It. No. 5.4.11 / Page No. 45 in General Technical Specifications for building work instead HYSD bar TMT FE 500D bar shall be used.

### **Item No. 13**

Brick work using common burnt clay building bricks having crushing strength not less than 35 Kg. / Sq.cm in Super Structure above plinth level up to floor two level in Cement Mortar 1:5. [1 – Cement: 5 – Fine sand] [B] Conventional.

Relevant specification shall be followed of General Technical Specification booklet building work It. No. 6.19 [B] / Page No.53.

### **Item No. 14**

Providing 20 mm thick double coat mala cement plaster on interior brick / concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 Cement : 4 coarse sand) in rough finishing and 8 mm thick top

coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing etc. complete.

The first coat of Cement Plaster of 12mm thick in Cement mortar 1:4 shall be applied properly and it shall be followed as per Sub. Item No. 1.0 and 2.0 to 2.1 of I. No. 17.95, P. 122 except that plaster work shall be carried out in Cement Mortar 1:4 instead of Cement mortar 1:3 mentioned in the work.

The second coat shall be completed to 8mm thick in cement mortar 1:2 as described above. The whole work shall be carried out uniformly as per sample approved. The curing shall be started overnight after finishing of plaster. The plaster shall be kept wet for a period 7 days. During this period, it shall be protected from all damages.

The item shall be followed for Double Coat Mala Plaster work for all floor.

Rate shall be for a unit of one Sq.m.

### **Item No. 15**

Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint. (A) In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins connected to common rafters and the like.

Relevant specification shall be followed of General Technical Specification booklet It. No. 11.4 (D) / Page No.80 expect that square / rectangular / round hollow pipe shall be used as per approved by Engineer in charge.

### **Item No. 16**

All the steel should be thoroughly cleaned free of rust and painted with one coats of approved anti corrosive primer after fabrication but before erection. After erection the entire steel fabricated structure shall be painted with two coats enamel paint [One Coat Primer + Two Coats of enamel Paint] of approved shade by

sprayer and finished to satin / matt finish. The coated rates shall include the cost of all materials, labour, tools, scaffolding, during the paint work all floors and walls shall be covered by plastic paper, cleaning the surface of all dirt, dust and other foreign matter.

**1.0. Workmanship**

**1.1.** Relevant specification shall be followed of General Technical Specification Building work booklet It. No. 19.11 + 19.15 / Page. No. 138 + 140. This work shall be carried out at any level. In this work rate is for with all lead and lift up to all floor.

**2.0. Mode of measurements and payment:**

**2.1.** The rate shall be for a unit of one square meter basis.

**2.2.** The work shall be measured for the finished work.

**Item No. 17**

Finishing wall with weather proof exterior emulsion paint on wall surface [two coats] to give a required shape an even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered material etc. complete.

**1.0. Material:**

**1.1.** Weather proof paint of good quality & Nerolac (Excel Top Guard), Asian (Ultima Protek Topcoat) or Dulux (New Diamond or Diamond category) manufacturer or as approved by District Court authority shall be used.

**1.2.** The water shall confirm to M.1 Acrylic shall be a high performance, long lasting exterior paint and shall withstand extreme rainfall, humidity and heat It shall base on specify formulated 100 % pure acrylic resin light fast pigments and other special additives to give excellent protection against alkali and U.V degradation. It shall forms a tough bond with exterior surface, preventing peeling, fungus and algae growth for years and years. It shall be tested in Govt. approved lab. It should have smooth and free flowing consistency and thinner ratio of paint, water shall be 100 : 40 by volume for each coat. The final finish shall be either smooth or matt as per instruction of Engineer - in - charge. It shall be of required shades offered by Engineer-in-charge.

1.3. Standard material of approved shade and quality shall be brought at the site of work & shall be approved by Engineer -in-charge prior to starting of work.

1.4. Original Paint Manufacturer support letter for this tender for paint work to be submitted as per Make of this tender.

1.5. **WARRANTY:** Paint material & workmanship have a warranty of 3 Years against any defect & worthless workmanship covering for all kinds of finishes. The defective & worthless work shall be rectifying by own cost of agency till warranty. No any extra cost shall be paid by department & no any extra cost claim for rectification work done by agency.

**2.0. Workmanship:**

2.1. Scaffolding: Where scaffolding is required, it shall be erected in such a way that as far as possible, no part of scaffolding shall rest against the surface to be coloring work or hole in walls. A properly secured strong and well tied suspended plat form may be used for coloring work. Where ladders are used, pieces of old gunny bags shall be tied at top and bottom to prevent scratches to the wall and floors. For colouring to ceiling proper stage scaffolding shall be erected where necessary and the floor area shall be covered with plastic so that the flooring is not spoiled during working.

**2.2. Preparation of Surface:**

2.2.1. The surface shall be thoroughly cleaned of all dust, dirt, mortar dropping and other foreign matter before paint is to be applied.

2.2.2. The surface spoiled by smoke soot shall be scrapped with steel wire brushes or steel scrapers. The surface shall be then broomed to remove all dust and dirt and shall be washed with clean water.

2.2.3. Oil or grease spots shall be removed by suitable chemical smooth surface shall be rubbed with wire brushes.

2.2.4. For quality testing, necessary testing shall be done at Govt. Approved laboratory as per instruction of Engineer in charge.

2.2.5. All unsound portion of the surface plaster shall be removed to full depth of plaster in rectangular patches and plastered again after raking the masonry joints properly. Such portions shall be wetted and allowed in dry. Any crevices, at any level

shall be cleaned and filled with the plaster mortar and cured as above. They shall then be given one coat of paint.

**2.2.6.** All unnecessary nails shall be removed; the holes, cracks, patches etc. shall be made good with material similar in composition to the surface to be prepared.

**2.2.7.** New plaster surface shall be allowed to dry for at least 2 months before applications of paint. Fitting in plaster shall be made good with plaster again and papered with a fine grade sand paper and made smooth. A coat of paint shall be applied over the patches. The surface shall be allowed to dry thoroughly before the regular coat of paint is applied. The surface affected by mould, moss, fungi, and algae lichens, efflorescence etc. shall be treated in accordance with I.S. 23.95 (Part.I) 1966. Before applying paint, any unevenness shall be made good by applying putty made out of plaster of parts mixed with water on entire surface, including filling up the undulation and then sand papering the same after it has dried.

**2.3. Preparation and Application Paint:** Apply two coats of finish paint thinning one liter of paint with 400 ml. of water (i.e. add 8 liters of water to 20 liters of drum of 100% acrylic paint of 42 volume particles) In case of newly plastered surface application of initial priming coats as per direction of Engineer in charge shall be applied. Minimum a gap of twenty-four hours should be given between two subsequent coats. Horizontal surface like the tops of a wings and parapets should be given an extra fourth coat of greater protection. As the finish paint requires 2 - 3 days for complete hard dry a sharp shower immediately after painting with affect film build - up necessitating recoat.

**2.4.** Precautions for no contamination in the paint & to stir well before application shall be taken. Do not use any universal strainers or any other colorants. Wear protective clothing like gloves and goggles etc. The finished surface shall be even and uniform in shade. Without patches, brush marks paint drops etc.

**2.5.** Protection measures shall be taken as per instruction of Engineer in charge.

**2.6.** 15 mm Double bristled brush shall be used. After a day's work, brushes shall be thoroughly washed in hot water with soap solution and hung down to dry. Old brushes which are dirty and caked with paint not be used on the work.

**3.0. Protective measure:**

3.1. The surface of doors, windows, ventilators, floors, articles of furniture and such other part of the building which are not be Weather proof paint shall be protected from being splashed upon. Such surface shall be cleaned of distemper splashes, if any.

**4.0. Mode of Measurement & Payment:**

4.1. Weather proof exterior emulsion paint, scraping of surface by stunk soot removal of oil and grease spots, treatment for infection of effloresces mould moss, fungi, algae and lichen and patch repairs to plaster shall be included in this item for which nothing extra shall be paid.

4.2. All the work shall be measured net in the decimal system as in place subject to the following limits unless otherwise stated here in after.

4.3. Dimensions shall be measured to the nearest 0.01 m.

4.4. Area in individual items shall be worked out to the nearest 0.01 Sqm. All work shall be measured in square meter. No deduction shall be made for ends of joints, beam, posts etc., and openings, not exceeding 0.5 Square meter each and no addition shall be made for reveals, jambs, soffits, sills etc. of these opening nor for finish around ends of joints, beams, posts etc.

4.5. Deductions of opening exceeding 0.5 Sqm. but not exceeding 3 Sqm. in each shall be made as follows and net addition shall be made for reveals, jambs, soffits etc. of these openings. (A) When both the face of wall is provided with same finish deductions shall be made or one face only. (B) When each face of wall is provided with different finish, deduction shall be made for that side of frame for doors, windows etc. on which width of reveals is less than that of the other side but no deduction shall be made on the other side. Where the width of reveals on the both the faces of walls are equal, deduction of 50% of area of opening of each face shall be made from area finish. (C) When only one face of wall is treated and the other face is not treated, full deduction shall be made if the width of reveal on treated side is less than that on untreated sides but if the width of the reveal is equal or more than that on untreated side neither deductions not addition to be made for reveals, jambs, soffits, sills etc.

4.6. In case opening of area exceeding 3 Sqm. each, deduction shall be made for openings but jambs, sills and soffits shall be measured.

4.7. No deductions shall be made for attachments such as casing, conduits, pipes, electric wiring and the like.

4.8. Item includes removing nails, making good holes, cracks, patches with material similar in composition of Lappy-Putty.

4.9. The rates include cost of all materials, labours, scaffolding, protective measure etc. involved in all the operations described above. This shall also include conveyance, delivery, handing, unloading, storing work etc.

4.10. The payment shall be made on per Square Meter basis.

### **Item No. 18**

Removing & Refixing Pre - Cast Rubber Dry inter locking concrete block including 40mm sand bedding of coarse sand for levelling and filling the joint with sand in proper line and level, 10 cm cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) in bottom etc. complete, including equipment, tools and all labours as directions by Engineer - in - charge & High Court Authority.

#### **1.0. Workmanship:**

1.1. Relevant specification shall be followed of removing &refixing Pre - Cast Rubber Dry inter locking concrete block including 40mm sand bedding of coarse sand for levelling and filling the joint with sand in proper line and level, 10 cm cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) in bottom etc. complete, including equipment, tools and all labours as directions by Engineer - in - charge & High Court Authority.

#### **2.0. Mode of measurement and payment:**

2.1. The payment shall be made on per Square Meter basis.

### **Item No. 19**

Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated

mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. Complete.

**1.0. Material:**

1.1. Water shall confirm to M-1, sand shall confirm to M-6, pre-cast Rubber Dye inter locking concrete paver block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically pressed and as per approved design & shape.

**2.0. Workmanship:**

2.1. Subgrade shall be cleaned, leveled, wetted and rammed as directed. Bedding shall be of 35mm thick layer of dry sand shall be spread over paving area. Paver block of approved colour, shape and size, shall be laid in different pattern/design as shown in the drawing or as directed by Consulting Architect/Engineer-in-charge as directed on top, pressed, tapped gently to bring it in line and level and inter lock with each-others. The joint shall be as fine as possible. The finished surface shall be true to levels and slopes as directed. Necessary testing of blocks is to be carried out.

**3.0. Mode of measurements and payment:**

3.1. The rate shall include the cost of all materials and labour involved in all the operations described above. The Paver block flooring shall be measured in square metres.

**Item No. 20**

Providing and fixing 35mm X 35mm X 5mm angle (Angle post fixed @ 3.00 meter Center to Center) welded metal section with five horizontal lines G.I. barbed wire fencing, weight 9.38 Kg. per 100 Mtr. Including fixing concertina razor blade 12 G wire loop of 610mm dia. On top of wall, applying one priming coat and enamel painting two coats with necessary fixtures and hardware etc. complete as directed by Engineer In Charge.

**1. Scope of Work**

The work shall consist of providing, fabricating, supplying, erecting and fixing M.S. angle posts, G.I. barbed wire fencing with five horizontal lines, and concertina razor blade wire on top of the wall complete in all respects including painting, fixtures, fittings, excavation, concreting, tensioning, and all incidental works as directed by the Engineer-in-Charge.

## **2. Materials**

### **2.1 M.S. Angle Posts**

- Angle section size: 35 mm × 35 mm × 5 mm
- Length of post shall be suitable for required fencing height and embedment.
- Posts shall be free from rust, bends, cracks, laminations, or other defects.
- Posts shall be installed at 3.00 meter center-to-center spacing.

### **2.2 G.I. Barbed Wire**

- Barbed wire shall be galvanized steel wire conforming to relevant IS specifications.
- Weight of barbed wire: 9.38 kg per 100 meter
- Fencing shall consist of five horizontal lines of barbed wire.
- Wire shall be uniformly tensioned and securely tied to angle posts using G.I. binding wire/clamps.

### **2.3 Concertina Razor Blade Wire**

- Razor wire shall be:
  - Made from high tensile galvanized steel
  - Coil diameter: 610 mm
  - 12 gauge core wire
- Razor wire shall be fixed continuously on top of wall/fencing with suitable clamps, hooks, binding wire, or brackets.

### **2.4 Primer and Paint**

- One coat of approved metal primer.
- Two coats of synthetic enamel paint of approved shade and brand.
- Paint shall conform to relevant IS standards.

### **2.5 Fasteners & Accessories**

- Nuts, bolts, clamps, hooks, binding wires, stay wires, tensioners, and all fixing accessories shall be galvanized and approved quality.

## **3. Fabrication & Installation**

### **3.1 Setting Out**

- Alignment and levels shall be marked accurately.
- Posts shall be erected true to line, level, and plumb.

### **3.2 Fixing of Posts**

- Posts shall be fixed at 3.00 m c/c.
- End posts and corner posts shall be properly strutted/braced.
- Posts may be embedded in PCC blocks or welded to inserts/base plates as per site condition and drawings.

### **3.3 Barbed Wire Fixing**

- Five horizontal rows of G.I. barbed wire shall be fixed.
- Wire spacing shall be equal unless otherwise specified.
- Wire shall be stretched properly to avoid sagging.
- All joints shall be securely twisted and tightened.

### **3.4 Concertina Wire Fixing**

- Concertina razor wire shall be fixed on top continuously.
- The loops shall be properly expanded and securely anchored.
- Necessary supporting brackets and clamps shall be provided.

## **4. Surface Preparation & Painting**

### **4.1 Surface Cleaning**

- All steel surfaces shall be cleaned of rust, oil, grease, dust, and welding scales before painting.

### **4.2 Priming**

- One coat of approved red oxide/zinc chromate primer shall be applied uniformly.

### **4.3 Enamel Painting**

- Two coats of synthetic enamel paint shall be applied after primer dries.
- Each coat shall be even and free from brush marks, runs, or patches.

## **5. Workmanship**

- Welding shall be neat and continuous where required.
- Fencing shall be rigid, properly aligned, and aesthetically finished.
- All sharp edges and burrs shall be removed.
- Damaged galvanization during fabrication shall be repaired with zinc-rich paint.

## **6. Measurement**

- Measurement shall be taken in running meter (RM) of completed fencing work.

### **Item No. 21**

Providing and fixing 2 mm thick F.R.P. sheet made from Fibre-reinforced polymer plastic composite material with sandwich type and bamboo chips pattern or as approved by High Court Authority for roofing system with fixing on M.S. fabrication structural grid using by self-tapping screw including resin- hardener vata on joint & edge of wall, F.R.P. sheet of common edge side shall be embedded in the wall surface as and where required, joint filling by silicon or required material, all material, equipment, labour, scaffolding etc. complete as directed by Engineer in charge.

- **1.0. Materials:**

- 1.1. Sandwich type F.R.P. sheet shall be 2mm thick of standard quality & Lexan or Tufflite brand only.
- 1.2. Fixture and fastening shall confirm to M-43

- **2.0. Workmanship:**

- 2.1. The material shall be approved prior to procurement for its make, size, thickness, colour/shed and properties. Only the approved make shall be allowed for shed. The fiber sheet shall be embedded in the wall of bungalow for the depth up to 5-10 mm inside to ensure proper grip and create no leakage condition. Proper gap to embed the sheet shall be made by prior grinding as per direction of EIC.
- 2.2. The shed shall be firmly fixed on the fabricated MS structure with self-tapping screws and edges in the wall. The edge profile slope shall be maintained properly so that no rainy & other sources of water may fall on the plinth. Edges shall be properly treated to give smooth surface instead of

exposed chips. All intermediate joints of the sheet shall be overlapped and applied approved make sealant to ensure no leakage. Shed shall provide proper slope so the no water gets accumulated at any location of roofing. On completion of the work, such test shall be given by the contractor to the satisfaction of EIC.

- 2.3. The vertical portion at the edges shall be properly treated to provide side protection. Such edges shall be provided with fixing of fiber sheet in vertical position. Outside projection shall be in the form of profile as per details provided. It's all works are mentioned as above fixing with required screw, bolts, hooks, nails & viser including all labour, tools, plants, material etc. complete.
- 2.4. The FRP Roofing Sheet is to be water proof, weather proof, both side UV coated etc. complete as per directed by Engineer in Charge & High Court Authority. Above mentioned all works shall be done with required screw, bolts, hooks, nails & visor including all labour, tools, plant, material, transportation, loading, unloading, scaffolding of any height and size etc. complete.
- 3.0. **Mode of measurements and payment:**
- 3.1. The rate shall include cost of all labour involved and tools used in providing, fixing, demolition and dismantling including scaffolding. The rate shall also include the charges for separating out and stacking the serviceable materials properly and disposing the unserviceable materials with all lead and lift.
- 3.2. The payment shall be made on basis of Sq meter of fiber shed area.

## **Credit of dismantle material**

### **Item No. DC-1**

**Dismantling Credit: Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [Brick] [Item No.**

**1.0. Workmanship:**

**1.1.** Contractor shall receive all types of Dismantling materials from the site. The volumetric calculation area of dismantled masonry of brick or other types of stone / brick materials shall got measured prior to starting of work and the material shall be taken by contractor as credit and rate of the same shall be received by department as per approved tender as applicable. Qty. as per Item No. 1. [Bricks] which shall be received by the contractor for the present work.

**2.0. Mode of measurement & payment:**

**2.1.** The Rate shall be for a unit of One Nos.

**Item No. DC-2**

**Dismantling Credit:** Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [TMT Steel] [It. No. 2]

**1.0. Workmanship:**

**1.1.** Contractor shall receive all types of Dismantling materials from the site. The material of dismantled TMT Steel shall got measured prior to starting of work and the material shall be taken by contractor as credit and rate of the same shall be received by department as per approved tender as applicable. Qty. as per Item No. 2. [TMT Steel] which shall be received by the contractor for the present work.

**2.0. Mode of measurement & payment:**

**2.1.** The Rate shall be for a unit of Kg basis.

**Item No. DC-3**

**Dismantling Credit:** Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [Chain Link Fencing and M.S. Gate] [It. No. 3]

**1.0. Workmanship:**

**1.1.** Contractor shall receive all types of Dismantling materials from the site. The material of dismantled Chain Link Fencing and M.S. Gate shall got measured prior

to starting of work and the material shall be taken by contractor as credit and rate of the same shall be received by department as per approved tender as applicable. Qty. as per Item No. 3. [**Chain Link Fencing and M.S. Gate**] which shall be received by the contractor for the present work.

**2.0. Mode of measurement & payment:**

**2.1.** The Rate shall be for a unit of Kgbasis.

**Item No. DC-4**

**Dismantling Credit: Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [FRP Sheet] [It. No. 4]**

**1.0. Workmanship:**

**1.1.** Contractor shall receive all types of Dismantling materials from the site. The material of dismantled **FRP Sheet** shall got measured prior to starting of work and the material shall be taken by contractor as credit and rate of the same shall be received by department as per approved tender as applicable. Qtyas per Item No. 4. [**FRP Sheet**] which shall be received by the contractor for the present work.

**2.0. Mode of measurement & payment:**

**2.1.** The Rate shall be for a unit of One Square Meter basis.

**:: GENERAL TECHNICAL AND IMPORTANT CONSIDERATIONS ::**

**1.0.** The present work shows the quantities that may be either in pieces or along the particularlength as per requirement. Contractor shall have to carry out the work in any quantum irrespective of location of bungalow or area of judge's colony. The quantity may not be at same location but includes various piecewise locations. No complaint regarding the same shall be entertained.

**2.0.** All manpower deployed by contractor shall be courteous and well mannered. The work shall be carried out with prior approval of samples of the respective items. Concerned officer shall be intimated before starting the work and getting permission to enter the bungalow and judge's colony. Only contractor's manpower with proper identification shall be allowed for the work.


3.0. Work shall be carried out in such manner that no disturbance in the area may occur. Time of working shall be strictly maintained.

4.0. All debris shall be removed immediately from the site of work so that no dumping at the judge's colony site and bungalows may occur.

5.0. Only approved material shall be brought at site of work. Provision of material storage shall be managed by agency. Department should not be responsible for arrangement of material storage. Secure storage room for stack of material stock shall not be given to agency by department.

6.0. Proper coordination with the other working agencies shall be done for proper execution of respective items.

Dated signature of contractor

  
Dy. Executive Engineer  
Gujarat High Court (R&B) Sub Division - 2  
Ahmedabad

  
Executive Engineer

Gujarat High Court (R&B) Division  
Ahmedabad



**Name of Work :-**


2216 S.R. to 30 Judges Bungalows at Bodakdev, Ahmedabad.  
Replacing damaged Compound Wall in Hon'ble Chief Justice Bungalow at Bodakdev, Ahmedabad.


**Testing Schedule**

Sr. No.	Description in Brief	Total Quantity	Material to be Tested	Name of Laboratory Test	Frequency	Total No. of test to be carried out	Remarks
1	2 RCC Work	3	4	5	6 Cu.m Test No.	7	8
1	M-250	19.44 Cu.m	C.C.Cubes	Compressive Strength For 7 & 28 Days	1 to 5      1	3 Test	-
					5 to 15      2		
					16 to 30      3		
					31 to 50      4		
					51 & Above 4+1 test for every 50 Cu.m		
2	Cement	69.017 M.T.	Cement	(1) Initial & Final Setting Time	M.T. Test No.	2 Test	-
				(2) Compressive Strength	Upto 50      1		
				(3) Consistency	50 to 100      2		
				(4) Fineness	100 to 200      3		
				(5) Soundness	200 to 300      4		
					300 to 500      5		
					500 to 800      6		
					800 to 1300      7		
3	Sand	106.75 Cu.m	Sand		& 8 test for larger consignment	1 Test	-
				(1) Fineness Modulus			
				(2) Specific Gravity			
				(3) Water absorption			
				(4) Clay & Fine Silt Content			



Sr. No.	Description in Brief	Total Quantity	Material to be Tested	Name of Laboratory Test	Frequency	Total No. of test to be carried out	Remarks
1	2	3	4	5	6	7	8
4	Water	-	Water	(1) Potability (2) Salinity	One Test Per Sources	1 Test	-
5	20 mm aggregate	113.51 Cu.m	20 mm aggregate	(1) Gradation (2) Flakiness Index (3) Impact Value (4) Water Absorption (5) Crushing Strength	1 / 150 M <sup>3</sup>	1 Test	-
6	10 mm aggregate	5.71 Cu.m	10 mm aggregate	(1) Gradation (2) Flakiness Index (3) Impact Value (4) Water Absorption (5) Crushing Strength	1 / 150 M <sup>3</sup>	1 Test	-
7	Bricks	34500 Nos	Bricks	(1) Compressive Strength (2) Water absorption (3) Soundness	One Sample for every 50000 Nos	1 Test	-
8	T.M.T. Bars	11.195 M.T.	T.M.T. Bars	(1) Tensile Strength (2) Elongation (3) Soundness	One Test / 40 M.T./Each Category	1 Test/Each Dia.	-
9	M-300 Paver Block	300 Smt	M-300 Paver Block	(1) Compressive Strength	One Test Per Shape	1 Test	-

  
Deputy Executive Engineer  
Gujarat Highcourt (R & B) Sub Division No.2  
Ahmedabad

  
Executive Engineer  
Gujarat Highcourt (R & B) Division  
Ahmedabad



**Statement showing the item on which extra security detail is to be recovered**

**Name of Work :-** 2216 S.R. to 30 Judges Bungalows at Bodakdev, Ahmedabad.  
Replacing damaged Compound Wall in Hon'ble Chief Justice Bungalow at Bodakdev, Ahmedabad.

Sr. No.	Particular of work	Tender Item No.
1	10% for Colour work	16 &17



**Deputy Executive Engineer**  
**Gujarat High Court (R&B) Sub Division No. 2**  
**Ahmedabad**



**Executive Engineer**  
**Gujarat High Court (R&B) Division**  
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