

Name of work: Construction, addition and alteration work in Auditorium Building at Gujarat High Court at Ahmedabad. [Extension of first floor by providing light weight roofing, fabrication work, glass cladding, painting, waterproofing, fixing tiles and misc. civil work in Auditorium Building.]

S P E C I F I C A T I O N S

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

Dismantling doors, windows, ventilators etc. (wood or steel or aluminium) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(ii) Exceeding 3 Sq.M. in area.

Relevant specification shall be followed of General Technical Specification booklet It. No. 20.49 (I) / Page No. 150 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 glass cladding including removing glass, aluminium section, fixtures and other hardware etc complete including cost of scaffolding including

stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.

1.0. Workmanship:

1.1. Prior protection like jute or mat shall be spreading on floor for protection. Dismantling of glass cladding including removing glass, aluminium section, fixtures and other hardware etc complete including cost of scaffolding including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.

1.2. Scraped material shall be removed from site and making floor clean.

2.0. Mode of Measurement and Payment:

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

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

Item No. 5

Dismantling of roller blind curtains of any size including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.

1.0. Workmanship:

1.1. This item includes dismantling of roller blind curtains of any size including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.

2.0. Mode of Measurement and Payment:

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

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

Item No. 6

Dismantling C.I. pipes G.S.W. pipes and A.C. rain water pipes with fittings and clamps including stacking the materials with all lead and lift [For any dia. of pipe].

Relevant specification shall be followed of General Technical Specification booklet It. No. 20.56 / Page No. 151 in General Technical Specifications for building work.

Item No. 7

Dismantling of artificial grass flooring carpet including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.

1.0. Workmanship:

1.1. This item includes dismantling of artificial grass flooring carpet including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.

1.2. Scraped material shall be removed from site and making floor clean.

2.0. Mode of measurement and payment:

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

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

Item No. 8

Demolition and disposal of unserviceable materials with all lead and lift. (i) Cement concrete.

Relevant specification shall be followed of General Technical Specification booklet It. No. 20.1 (II) / Page No.147 in General Technical Specifications for building work.

Item No. 9

Removing and scraping of old deteriorated plaster of any thickness from wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift.

1.0. Workmanship:

1.1. Prior protection like jute or mat shall be spreading on floor for protection. Scraping of plaster from wall and ceiling shall be done by Hammer and chisel of sharp edge and making the surface even (with hand scraping). No excessive vibrations shall be caused due to scrapping activity.

1.2. Cement plaster from wall surface and ceiling shall be scraped thoroughly without any damage to Bricks. It shall be with hand scraper without using wire brushing. It shall be cleaned and rubbed with cloth also.

1.3. This shall then be wiped finally and allowed to dry and making the surface for new plaster works. Scraped material shall be removed from site and making floor clean.

2.0. **Mode of Measurement and Payment:**

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

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

Item No. 10

Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in buildup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge. Column/Beam of any Size as per design.

Relevant specification shall be followed of General Technical Specification booklet It. No. 11.4.(A) / Page No. 80 in General Technical Specifications for building work.

Item No. 11

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. 12

Applying protection layer on sunk slab surface of a 3mm thick priming cum waterproofing 1 coat of Techoxy – 3 two component epoxy resin based and 2 coats of Colour Membrane on top layer acrylic base only Choksey Brand or as approved by High Court of Gujarat, Choksey Techoxy – 3 One-part epoxy resin and the other

part of curing agent diluted with water in proportion as per manufacturers specification including material, labour & equipment's etc. complete. For all Floor.

1.0. General:

1.1. This work shall consist of surface water-proofing for toilet floor & wall as per directed by E.I.C., drawings and conforming to these Specifications or as approved by the Engineer in charge.

2.0. Material:

2.1. Cement shall be conforming to M-3 as per Building Specification Booklet.

2.2. Water shall be conforming to M-1 as per Building Specification Booklet.

2.3. Sand shall be conforming to M-6 as per Building Specification Booklet.

2.4. Texhoxy – 3 two component epoxy resin based and Colour Membrane shall be good quality & Chokshey Brand or as approved by High Court Authority & Directed by Engineer in Charge.

3.0. Workmanship:

3.1. Item covers the work of application of 3mm thick priming cum waterproofing coat of Texhoxy – 3 two component epoxy resin based and two coats of colour membrane on top layer acrylic based to surface water – Proofing for toilet & wall, using standard materials. Initially, the surface to be cleaning properly to make it debris & dust free.

3.2. Wet surface shall be allowed to dry & determine shall be filled with proper cement work. Texhoxy – 3 two component epoxy resin based and 2 coats of Colour Membrane on top layer acrylic base [Chokshey brand only] shall be mixed with cement in proportion as per item description or as manufacturer's specification, to be diluted with water. The properly mixed solution shall be applied on the surface using appropriate size brush. The surface shall be allowed to dry & no surface vibration / disturbance shall be allowed.

3.3. The complete treatment after application shall result into watertight & water-proof surface with zero penetration of water to floor below. The complete work shall be carried out under strict supervision & direction of Engineer in charge.

4.0. Mode of measurements and payment:

4.1. The complete finished job will be measured and the unit of measurement will be in square meters. The payment shall be made on square meter basis of surface

application including all material, labour, taxes complete as directed. The rate include all the items involved for the work Cement, Water, Sand and Techoxy – 3 & Colour membrane chemicals and other required material etc. complete.

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

Item No. 13

Providing and laying Thermal Shock Resistance [Cool Roof Tiles], Abrasion Resistance, Skid Resistance and chemical resistant High Strength [Strength Minimum $> 35 \text{ N/mm}^2$] Vitrified tiles [AS per IS 15622 of 2017 & ISO: 13006 : 2018 / EN 14411] of size 300 mm x 300 mm or 450mm x 450mm of 10 mm or more thick of approved make [H & R Jhonson [India], NITCO Limited, Kajaria Ceramics Limited, Oreintbell Limited, Nexion International] shade and size for flooring and skirting of 100mm high laid on bed of 12mm thick cement mortar 1:3 [1 cement: 3 coarse sand], using PVC tile spacer, making groove finished using by Epoxy grout, flush pointing with white cement using colour pigment, protecting the tiles with POP until completion and handing over and cleaning subsequently before handing over, including cost of all materials, labour, curing, complete HOM of equipment's and machineries, all leads and lift, loading and unloading charges, transportation cost and conveyance of all materials, and all other incidental charges at all floor levels etc., complete for successful completion of work as per drawings & specifications and as directed by the Engineer-in-charge and approved by High Court Authority.

Relevant specification shall be followed of General Technical Specification booklet It. No.14.29 / P.No.96 except that the Thermal Shock Resistance [Cool Roof Tiles], Abrasion Resistance, Skid Resistance and chemical resistant High Strength [Strength Minimum $> 35 \text{ N/mm}^2$] Vitrified tiles [AS per IS 15622 of 2017 & ISO. 13006 : 2018 / EN 14411] of size 300 mm x 300 mm or 450mm x 450mm of 10 mm or more thick of approved make [H & R Jhonson [India], NITCO Limited, Kajaria Ceramics Limited, Oreintbell Limited, Nexion International] or as approved by High Court Authority only shall be used instead of White glazed tiles & pattern. There may be combination of pattern / colour of tiles to provide desired output for toilet block / building floors. The size of tiles may also vary depending upon selection as per manufacturer's product.

1.0. Materials

- 1.1. Water shall conform to M-I. Cement mortar shall conform to M-11. with Tiles.
- 1.2. High Strength glazed vitrified Tiles shall be high glossy, Resistant to Acid & Alkalis, high shear resistance, scratch resistance Mohs scale > 7 , Fire resistance, ISO standard 14001 considered for Environment friendliness, Lowest water absorption ($< 0.5\%$) and as per related IS of 2007 with approved make define as above only with

the tiles colour shed and pattern as approved by High Court Authority and directed by Engineer in Charge.

2.0. Workmanship

2.1. Bedding: The sub-grade shall be cleaned, wetted and mopped- The bedding shall then be laid evenly over the surface tamped and corrected to desired level and allowed to harden enough to offer a rigid cushion to tiles and to enable the mason to place wooden planks across and squat on it.

2.2. The tiles shall be laid on cement mortar bedding of 12 mm. thick in C.M. 1:3 The mortar shall have sufficient plasticity for laying and there shall be no hard lumps that would interfere with the evenness of bedding. The base shall be cleared and well wetted. The mortar shall then be spread in thickness not less than 10 mm. at any place and average 12 mm. thickness. The proportion of the cement mortar shall be as specified in the item.

2.3. Fixing tiles: The tiles before laying shall be soaked in water for at least two hours. Neat grey cement grout at 3.3. Kg/Cement/Sq. mt. of honey like consistency shall be spread over the mortar bedding as directed. The edges of the tiles be smeared with neat cement slurry. The tiles shall be well pressed and gently tapped with a wooden mallet till they are properly bedded and in level with the adjoining tiles. There shall be no hollows in bed or joints. The joints between the tiles shall be as thin as possible in straight line or as per pattern.

2.4. The tiles shall not have staggered joints. The joints shall be true to center line both ways. The Nahni trap coming in the flooring shall be so positioned that its grating shell replace only one tile as far as possible. Where full size tiles cannot be fixed, they shall be cut (Swan) to the required size and the edges rubbed smooth to ensure straight and true joints. The joints shall be filled with grey cement grout with wire brush or trowel to a depth of 5 mm. and loose material removed. White cement or colour oxide shall be used for pointing the joints to match with tiles. After fixing the tile finally in an even plane the flooring shall be kept wet and allowed to nature undisturbed for 7 days. There should be no water logging at any location after completion of flooring work. It should be drained out at designated location as directed. Any such water logging shall be removed & replaced by new tiles at their own cost by agency. Proper expansion joint at designated locations shall be kept during laying of flooring. Such joints shall be of width 18 to 20 mm at designated geometric location.

2.5. Cleaning: The surplus cement grout that may have come out of the joints shall be cleared off before it sets. Once the floor has set, it shall be carefully washed, cleared by dilute acid and dried. Proper precaution and measures shall be taken to ensure that the tiles are not damaged in any way till the completion of the construction.

3.0. Mode of measurements & payment

3.1. The work done shall be measured in sq. mt. for visible area of final work done. The length and width of the flooring shall be measured between the faces of skirting or dado or plastered face of wall as the case may be. The paving under dado or skirting shall not be measured. No deduction shall be made nor extra paid for any opening in the floor of area upto 0.1 sq. mt. Nothing extra shall be paid for laying the floors at different levels in the same rooms.

3.2 The rate shall be for a unit of one sq. meter.

Item No. 14

Providing and laying Scratch and abrasion resistant, High Strength, antiskid type matt finished Vitrified tiles [As per related IS of 2007 & ISO: 9001-2008] of size 800 mm x 800 mm of 10 mm or more thick of approved make [H & R Jhonson (India), NITCO Limited, Kajaria Ceramics Limited, Nexion International] shade and size for flooring trad of steps and laying bed of 12mm thick cement mortar 1 : 3 [1 Cement : 3 Coarse Sand] or tiles adhesive chemical as directed, using PVC tile spacer, making groove finished using by Epoxy grout, flush pointing with white cement using colour pigment, cleaning subsequently before handing over, including cost of all materials, labour, curing, complete HOM of equipment's and machineries, all leads and lift, loading and unloading charges, transportation cost and conveyance of all materials, and all other incidental charges at all floor levels etc., complete for successful completion of work as per drawings & specifications and as directed by the Engineer-in-charge and approved by High Court Authority.

Relevant specification shall be followed of General Technical Specification booklet It. No.14.29 / P.No.96 except that the Scratch and abrasion resistant, High Strength, antiskid type matt finished Vitrified tiles [As per related IS of 2007 & ISO: 9001-2008] of size 800 mm x 800 mm of 10 mm or more thick of approved make [H & R Jhonson (India), NITCO Limited, Kajaria Ceramics Limited, Nexion International] shade and size for flooring trad of steps and laying bed of 12mm thick cement mortar 1 : 3 [1 Cement : 3 Coarse Sand] or tiles adhesive chemical as directed, using PVC tile spacer, making groove finished using by Epoxy grout, flush pointing with white cement using colour pigment, cleaning subsequently before handing over, including cost of all materials, labour, curing, complete HOM of equipment's and

machineries, all leads and lift, loading and unloading charges, transportation cost and conveyance of all materials, and all other incidental charges at all floor levels etc., complete for successful completion of work as per drawings & specifications and as directed by the Engineer-in-charge and approved by High Court Authority. Scratch and abrasion resistant, High Strength, antiskid type matt finished Vitrified tiles [As per related IS of 2007 & ISO: 9001-2008] of size 800 mm x 800 mm of 10 mm or more thick of approved make [H & R Jhonson (India), NITCO Limited, Kajaria Ceramics Limited, Nexion International] shade and size for flooring trad of steps and laying bed of 12mm thick cement mortar 1 : 3 [1 Cement : 3 Coarse Sand] or tiles adhesive chemical as directed, using PVC tile spacer, making groove finished using by Epoxy grout, flush pointing with white cement using colour pigment, cleaning subsequently before handing over, including cost of all materials, labour, curing, complete HOM of equipment's and machineries, all leads and lift, loading and unloading charges, transportation cost and conveyance of all materials, and all other incidental charges at all floor levels etc., complete for successful completion of work as per drawings & specifications and as directed by the Engineer-in-charge and approved by High Court Authority only shall be used instead of White glazed tiles & pattern. There may be combination of pattern / colour of tiles to provide desired output for toilet block / building walls. The size of tiles may also vary depending upon selection as per manufacturer's product.

1.0. Materials

- 1.1. Water shall conform to M-1. Cement mortar shall conform to M-11. with Tiles.
- 1.2. High Strength glazed vitrified Tiles shall be high glossy, Resistant to Acid & Alkalis, high shear resistance, scratch resistance Mohs scale > 7, Fire resistance, ISO standard 14001 considered for Environment friendliness, Lowest water absorption (<0.5%) and as per related IS of 2007 with approved make define as above only with the tiles colour shed and pattern as approved by High Court Authority and directed by Engineer in Charge.

2.0. Workmanship

- 2.1. **Bedding:** The sub-grade shall be cleaned, wetted and mopped- The bedding shall then be laid evenly over the surface tamped and corrected to desired level and

allowed to harden enough to offer a rigid cushion to tiles and to enable the mason to place wooden planks across and squat on it.

2.2. The tiles shall be laid on cement mortar bedding of 2.5 to 5mm. thick tiles adhesive chemical or laying bed of 12mm thick cement mortar 1 : 3 [1 Cement : 3 Coarse Sand]. The tiles adhesive chemical shall have sufficient plasticity for laying and there shall be no hard lumps that would interfere with the evenness of bedding. The base shall be cleared and well wetted. The tiles adhesive chemical mortar shall then be spread in thickness not less than 2.5 mm. at any place and average 5 mm. thickness. The proportion of the tiles adhesive mortar shall be as specified in the item.

2.3. Fixing tiles: The tiles before laying shall be soaked in water for at least two hours. Neat grey cement grout at 3.3. Kg/Cement/Sq. mt. of honey like consistency shall be spread over the mortar bedding as directed. The edges of the tiles be smeared with neat cement slurry. The tiles shall be well pressed and gently tapped with a wooden mallet till they are properly bedded and in level with the adjoining tiles. There shall be no hollows in bed or joints. The joints between the tiles shall be as thin as possible in straight line or as per pattern.

2.4. The tiles shall not have staggered joints. The joints shall be true to center line both ways. The Nahni trap coming in the flooring shall be so positioned that its grating shall replace only one tile as far as possible. Where full size tiles cannot be fixed, they shall be cut (Swan) to the required size and the edges rubbed smooth to ensure straight and true joints. The joints shall be filled with grey cement grout with wire brush or trowel to a depth of 5 mm. and loose material removed. White cement or colour oxide shall be used for pointing the joints to match with tiles. After fixing the tile finally in an even plane the flooring shall be kept wet and allowed to nature undisturbed for 7 days. There should be no water logging at any location after completion of flooring work. It should be drained out at designated location as directed. Any such water logging shall be removed & replaced by new tiles at their own cost by agency. Proper expansion joint at designated locations shall be kept during laying of flooring. Such joints shall be of width 18 to 20 mm at designated geometric location.

2.5. Cleaning: The surplus cement grout that may have come out of the joints shall be cleared off before it sets. Once the floor has set, it shall be carefully washed,

cleared by dilute acid and dried. Proper precaution and measures shall be taken to ensure that the tiles are not damaged in any way till the completion of the construction.

3.0. Mode of measurements & payment

3.1. The work done shall be measured in sq. mt. for visible area of final work done. The length and width of the flooring shall be measured between the faces of skirting or dado or plastered face of wall as the case may be. The paving under dado or skirting shall not be measured. No deduction shall be made nor extra paid for any opening in the floor of area upto 0.1 sq. mt. Nothing extra shall be paid for laying the floors at different levels in the same rooms.

3.2. The rate shall be for a unit of one sq. meter.

Item No. 15

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. 16

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. 17

Providing and laying South Mining Diamond Polished Granite stone slab 18mm or more [Average] thick [Sandwich type frame] of telephone black / Z black / Golden galaxy shades or as approved by High Court Authority for door / window sill & jams cladding laid on plastered surface using by 2.50mm thick layer of polymer cement mortar [Approved make: My Laticrete / Roff or as approved by Resident Hon'ble Justice / I.A.S. / I.P.S.] with design pattern including half moulded round on both edges, required cement slurry, rubbing, polishing, all material, equipment's, labour etc. complete as per directed by engineer in charge.

1.0. Material

1.1. Approved quality 18 mm thick granite stone diamond polished, Kota stone, white cement, matching pigment, sand, cement, great, kapchi & other material required for the item.

2.0. Workmanship

2.1. Contractor have to provide the approved quality, as per approved sample 18 mm thick mirror polished, machine cut of approved quality granite for kitchen platforms, vanity counters facias and or similar location of required size of approved shade, color and texture. The granite should be laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) and with joints treated with white cement , mixed with matching pigment , epoxy touch ups . contractor have to provide kota stone as structural member for, support, sandwich platform wherever it required or instruction of engineer in charge contractor have to do necessary polishing, rubbing

and mirror polishing of each granite stone, including rubbing, curing etc. complete at all levels. Contractor have to provide fascia Patti with necessary molding and polishing as per the instruction of architect. for fixing / granite stone over and above corresponding basic item in facia and drops of width up to 150 mm with epoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete contractor has to provide opening of required size and shape for wash basins, kitchen sink in kitchen platform, vanity counters and similar location in granite / stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges. contractor has to provide edge molding to 18 mm thick granite stone counters, vanities etc. which including machine polished to edge high gloss finish etc. complete as per design approved by engineer-in charge.

3.0. Mode of measurement & payment

3.1. The work done shall be measured in sq. mt for visible area of work done. The length and width of the granite platform will be measured and the hole for wash basin facia patty and molding for the facia patty are not paid separately. The rate will be of complete item of creating a granite platform/ counter for wash basin in all aspect. The sample of granite shall be get approved from Authority & Engineer in charge.

3.2. The rate shall be for a unit of one sq. meter.

Item No. 18

Providing and fixing cement sheet false ceiling with perforated pattern/plain pattern of 12mm thickness as per design with GI intermediate channels and sections, suspender and screws are of sound quality and at a appropriate distance as per sized specified in detail drawings. Material selection should be as per Architect & sample approved by High Court Authority.

Material and Workmanship:

This item includes providing and fixing cement sheet false ceiling with perforated pattern/plain pattern of 12mm thickness as per design with GI intermediate channels and sections, suspender and screws are of sound quality and at a appropriate distance as per sized specified in detail drawings. Material selection should be as per Architect & sample approved by High Court Authority.

Mode of measurements & payment:

The rate shall be for a unit of one sq. meter.

Item No. 19

Wall painting three coats of plastic emulsion paint [In addition to two coats of Lappy-Putty + two coats of primer] of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foregone matter and sand papered smooth.

1.0. Material:

1.1. Emulsion paint of Nerolac (Impression Ultra HD or Pearls luster finish), Asian (Royal luxury or Royal health shield) or Dulux (Ambiance Velvet touch category) Brand or as approved by Concern I.A.S. or Authority. Paints without test certificates or expired paints shall not be accepted.

1.2. All Lappy (Putty), Primer, paints and paint constituents to be used for the work shall be delivered to the work area in original sealed containers, bearing manufacturer's labels, batch No., date of manufacture etc.

1.3. Constituent adhesives such as thinner, driers etc. shall be those recommended by the paint manufacturer.

1.4. Acrylic base Putty and Lappy shall be good quality & approved brand of Asian or Birla or as approved by District Court Authority.

1.5. Acrylic base primer shall be good quality & approved brand of Asian (Decoprime), Dulux (Promise or Smoothover) or Nerolac (Goody Universal primer SB) or as approved by Concern I.A.S. or Authority.

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

1.7. 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. Scaffolding

2.1. 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 paint. A properly secured strong and well tied suspended platform (Joola/Jhula) may be used for Lappy-Putty, Primer and Paint. Where ladders are used, pieces of old gunny bags shall be tied at top and cotton to prevent scratches to the walls and floors. For Lappy-Putty, Primer and Paint to ceiling, proper stage scaffolding shall be erected where necessary.

3.0. Workmanship

- 3.1. The existing painted surface should be cleaned thoroughly by using scrapers, wire brushes, emery paper, buffing wheels etc., thus making it free from all oil & grease, loose particles, rust, dust etc. to receive the finish coat.
- 3.2. Surfaces shall be thoroughly cleaned to remove any dust, oil & grease with suitable cleaning agent followed by rinsing with clean water. Damaged painted areas shall be scrubbed thoroughly to achieve a clean surface. Pits / abrupt undulations shall be filled with compatible putty wherever required.
- 3.3. Scraping of paint from existing wall and ceiling surface as per specification shall be followed of General Technical Specification booklet It. No. 20.00 / Page No.151.
- 3.4. All unnecessary nails shall be removed. Pitting in plaster shall be made good with plaster of paris mixed with dry Lappy (Putty) of colour to be used. The surface shall then be rubbed down again with fine grade sand paper and made smooth.
- 3.5. The Dr. fixit brand chemical shall be using for filling the crack in plaster & joint should be even in look. Crack filling work with applying standard chemical material including scrubbing wall, scraping hair crack and cold joint crack of internal or external wall and filling chemical material as per instruction of engineer in charge. Crack should be filled up & plaster should be joint & does not affected by any weather condition.
- 3.6. All materials not in current use shall be kept properly protected lids of containers shall be kept in closed and surface of the Acrylic lappy putty in open or partially open containers covered with a clean water to prevent formation of skin.
- 3.7. The Acrylic lappy putty which have become heap or flat due to improper and long storage shall not be used.
- 3.8. A coat of Lappy (Putty) shall be applies over the patches. The surface shall be allowed to dry thoroughly before the regular coat of Lappy (Putty) is allowed. The surface affected by moulds, moss, fungi algae lichens, efflorescence etc. shall be treated in accordance with I.S. 2395 (Part - I) 1966. Before applying Lappy (Putty), any unevenness shall be made good by applying putty made of plaster of paris mixed with water on entire surface including filling up the undulation and then sand papering the same after it is dry.
- 3.9. A priming coat of Lappy (Putty) and primer of approved as per above item description manufacture and shade shall be applied over the papered surface in case of new wall / existing wall on undecorated surface. If the Lappy (Putty) priming is done after the wall surface dries completely and then after the primer shall be applied.
- 3.10. The Lappy (Putty) shall be diluted with water or any other prescribed thinner in a manner recommended by the manufacture only. Sufficient quantity of Lappy (Putty) required for a day's work shall be prepared.
- 3.11. For undecorated surfaces, shall be lightly sand papered to make it smooth for receiving the Lappy (Putty), taking care not to rub out the priming coat. All loose

particles shall be dusted off after rubbing. Minimum two coats of Lappy (Putty) shall be applied with steel plates in horizontal strokes followed immediately by vertical strokes which together shall constitute one coat. The subsequent coats shall be applied after a time interval of at least 24 hours between consecutive coats to permit proper drying of the proceeding coat. The finished surface shall be even and uniform without patches, steel plates, Lappy (Putty) droops etc.

3.12. Sufficient quantity of Lappy (Putty) shall be mixed to finish one room at a time. The application of a coat in each room shall be finished in one operation and no work shall be started in any room which cannot be completed on the same day.

3.13. The primer shall be applied with a brush or roller on the clean dry and smooth surface. Horizontal strokes shall be given first and vertical strokes shall be applied immediately afterwards. This entire operation will constitute one coat. The surface shall be finished as uniformly as possible leaving no brush / roller mark. It shall be allowed to dry for at least 48 hours before paint.

3.14. It shall be scraped thoroughly with hand scraper. This shall then be wiped finally with mineral turpentine to remove grease and perspiration of hand marks etc. and allow drying. The surface shall be made even and smooth as directed Engineer in charge.

3.15. If efflorescence appears, painting shall be deferred until it ceases. Efflorescence shall be removed by drying brushing; in no case the efflorescence salts shall be removed by washing.

3.16. Then wall and ceiling shall be rubbing by course and paper as directed by Engineer in charge. Surface shall be wiped by clean cotton cloths. Then apply second coat of Aisan or Birla Lappy by steel plates and making wall and ceiling in line and level. After dry Asian or Birla Lappy apply rubbing by sand paper as per instruction of Engineer in charge. Surface shall be wiped by clean cloths free from any foreign matter projecting fiber shall be removed and left for dry.

3.17. Walls, floors & ceiling and adjacent electrical fittings and switch board shall be satisfactorily protected by drop clothes. Other precautionary measures should be taken during spray / brush painting to ensure that surrounding area / equipment is not affected. The masking material wherever necessary shall be used in sufficient quantities to avoid falling of paint on unwanted surfaces. Safety gears to be used by personnel like respirator, face mask, hand gloves, protective clothing etc.

3.18. The application should be as per manufacturer's instructions / specifications. Before opening the packed drum, it should be rolled on the floor and after opening the drum paints shall be stirred well so that no material/ pigments remain settled at the bottom. Suitably the paint shall be checked as per requirement before opening.

3.19. The choice of method of application i.e. by brush or by roller or by spray gun will be decided by the Engineer in charge. However, adjacent equipment / electric element / structures shall be suitably protected and care shall be taken to prevent intoxication of the surrounding area. The method of paint application depending

upon the area shall be jointly discussed and decided with Engineer in charge. Paint thickness (DFT) shall be as per the manufacturer's specification. In case the dry film thickness of finish paint is observed less than the specified values, additional coat shall have to be applied free of charge.

3.20. No paint shall be applied until the authorized inspection has ascertained that all prepared surfaces are satisfactorily cleaned and are in a condition to ensure the proper receipt of and adhesion of the coating.

3.21. The all gauges, instruments and the necessary measuring equipment's required for inspecting the work, test pieces, samples etc. at site shall be furnishing by contractor.

3.22. The work of "Paint on internal walls / ceiling etc. at any floor level of building" demands highest degree of quality and reliability standards. In line with this requirement the contractor should have documented quality assurance system to assure the quality of work at all stages viz. procurement, inspection, testing, handling and shipment, storage, cleaning, application and safety. The contractor shall have a dedicated group of experienced and qualified inspection engineers and inspectors responsible for assuring quality assurance and quality surveillance at their works, their suppliers / vendors and at site.

3.23. 15 mm Double bristled brush or Roller 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.

3.24. The interior paint shall be of standard approved make of Nerolac (Impression Ultra HD or Pearls luster finish), Asian (Royal luxury or Royal health shield) or Dulux (Ambiance Velvet touch category) Brand or as approved by District Court Authority. Paints without test certificates or expired paints shall not be accepted. The sample card shall be brought for selection of Hon'ble Judge or authority and the several samples as selected shall be applied for final selection. There may be combination of the paint shed to be applied on the walls. The work shall be carried out after final cleaning & washing of the surface of application to make it total dust free. The work shall be carried out through skilled painter to provide even uniform shade throughout the interior surface. The application of second coat shall be applied after proper drying of first coat. If the work is not found proper after second coat, agency shall have to apply the coat up to the satisfaction of the work at his own cost. The inside work shall be carried out through proper scaffolding work as per para this item para no. 2. The application area shall be covered at base with proper plastic spreading to avoid droppings of paint on floors etc. Such remains shall be cleaned thoroughly with appropriate solution on completion of the work. The rate shall include all the described activities to give final output as per satisfaction of the District Court authority.

3.25. The relevant specification of Item No.19.2 (A) / P No. 124 of GTS Booklet shall be followed for application of primer coat. Further additionally specification for primer coat shall be followed as per above.

3.26. For three coats of emulsion paint relevant specification of Item No. 18.57 P. No. 120 of GTS booklet shall be followed. Except Nerolac (Impression Ultra HD or Pearls luster finish), Asian (Royal luxury or Royal health shield) or Dulux (Ambiance Velvet touch category) Brand or as approved by District Court Authority shall be considered instead of normal emulsion paint.

4.0. Mode of Measurement & Payment:

4.1. Nerolac (Impression Ultra HD or Pearls luster finish), Asian (Royal luxury or Royal health shield) or Dulux (Ambiance Velvet touch category) interior 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 on 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 nor 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 including Lappy (Putty), primer coat, paint material, scraping, labour and other required etc.

Item No. 20

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 resign 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 dries.

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 on 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 nor 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. 21

Providing and fixing Roller Curtain for window with removing existing curtain of window and fixing on it new roller curtain of D-Decor/siddhi curtain/decorlam blinds and other equivalent approved brand with fixing roller channel shaft of wall with necessary fitting clip and fastener, screw and other consumable fitting as per direction given by Engineer In Charge. and sample approved by High Court Authority etc. complete.

MATERIALS AND WORKMANSHIP:

The work shall be carried out for providing and fixing Roller Curtain for window with removing existing curtain of window and fixing on it new roller curtain of D-Decor/siddhi curtain/decorlam blinds and other equivalent approved brand with fixing roller channel shaft of wall with necessary fitting clip and fastener, screw and other consumable fitting as per direction given by Engineer In Charge. and sample approved by High Court Authority etc. complete.

MODE OF MEASUREMENT & PAYMENT:

The mode of measurement and payment of cable shall be on Smt Basis.

Item No. 22

Providing and fixing fully paneled colour anodised aluminium two side openable shutter of size 1.20 m x 3.00 m with 5 mm thick transparent fixed glass on ventilation for top of aluminium frame section of 101.60 mm x 44.45 mm x 1.60 mm @ 1.300kg/Rmt and aluminium shutter section for Horizontal, vertical and lock rail of size 85.00 mm x 44.45 mm x 1.40 mm @ 1.038 kg/ Rmt with both side prelaminated particle board panel like novapan or equivalent of natural wood grain side with 20 mm x 30 mm T.W. moulding strip authority with all accessories like I.S.I. marked floor springs, conselled lock, S.S. hinges, handle, aldop stoppers as per drawing & design supplied by EIC & Authority.

Material:

Necessary powder coated anodized aluminium frame, rubber gasket, floor spring of ISI brand, steel rods, pivot, cover, 5mm thick sheet glass and necessary fixtures and fasteners are used of ISI brand. Material shall be approved ISI quality. Damaged material shall not be used on site.

Workmanship:

This item includes providing and fixing fully paneled colour anodised aluminium two side openable shutter of size 1.20 m x 3.00 m with 5 mm thick transparent fixed glass on ventilation for top of aluminium frame section of 101.60 mm x 44.45 mm x

1.60 mm @ 1.300kg/Rmt and aluminium shutter section for Horizontal, vertical and lock rail of size 85.00 mm x 44.45 mm x 1.40 mm @ 1.038 kg/ Rmt with both side prelaminated particle board panel like novapan or equivalent of natural wood grain side with 20 mm x 30 mm T.W. moulding strip authority with all accessories like I.S.I. marked conselled lock, S.S. hinges, handle, door closer, aldrop stoppers as per drawing & design supplied by EIC & Authority.

Mode of measurement & Payment:

The rate includes all labour, material required to complete the item satisfactorily. The rate and measurement shall be for a unit of one "Square Metre".

Item No. 23

Providing and fixing 28 mm thick single/ double leaf solid core and resin bound B.W.P. Flush Door Shutter, confirming to IS:1659 - 1960 and 2202 part I - 1962 as modified up to date Both Side 1mm thick premium quality laminating pressed and teakwood lipping on all core side [Size: 32mm X 5mm] with polishing or painting as per specification & design around the shutters and fixed to existing frame and as specified including cost of all materials, S.S. Hinges Heavy Duty 5" Size, Brass Aldrop, Brass Baby Latch handle, Brass Stopper, S.S. Satin Finish Baseboard Door Stop 3", machineries and equipment's, with all leads and lifts, loading and unloading charges, transportation cost and conveyance of all materials, labour etc. complete for successful completion of work as per specifications at all floor levels and as directed by the Engineer-in-Charge.

1.0. General

1.1. This work shall consist of furnishing and placing flush door shutter, of the design, pattern, shape and dimensions are directed by Engineer in charge and approved by High Court of Gujarat Authority with conforming to these Specifications.

2.0. Material:

2.1. Veneer and Laminate sheet shall be good quality and Royal Touch, Century ply, Bakelite brand or as approved by High Court Authority.

2.2. 28mm or more thick Boiled Waterproof single / Double leaf solid core and resin bound flush door shutter shall be used for a Door and Shutter of good quality and approved make or as per approved by Engineer in Charge.

2.3. French polish shall confirm to M-45, page no. 21 and it should be executed as per directions of Engineer in charge and approved by High Court Authority.

2.4. Synthetic resin adhesive shall be good quality and Pedilite Ltd. brand SR-500 grade or as approved by Engineer in charge.

2.5. Hardware and necessary screw, nails etc. materials shall be Premium quality brass materials and approved by High Court Authority.

2.6. Brass Hinges size of 5" to 8" shall be good quality & approved brand.

2.7. Brass finish stopper shall be good quality & approved brand.

2.8. Aldrop shall be chrome plated Brass of good quality & approved brand.

2.9. Baby latch handle shall be made from brass materials and good quality with approval of High Court Authority.

2.10. Wood in bedding patti or frame shall be confirm to M-29 as per General Technical Specification booklet.

3.0. Workmanship

3.1. The items covers' the requirement of Door, premium grade Boiled waterproof plywood, French polish, their supply and fixing or applying for to prepare 38mm thick Flush door shutter should be covered by veneer and fixed on brass hinges.

3.2. The remaining specification for Flush Door or other relevant details does not mention herewith in this specification, it shall be followed of General Technical Specification booklet It. No. 10.30 / Page No.72.

3.3. The specification for Teak Wood Beading Patti or relevant specification shall be followed of General Technical Specification booklet It. No. 10.1(A) / Page No. 68.

3.4. The 4mm thick best quality veneer sheet of approved Company and Brand of shed & design approved by High Court of Gujarat or Engineer in charge shall be fixed on both side of flush door shutter with adhesive. The pattern of veneer sheet also as per instruction of Engineer in Charge & approved by High Court Authority.

3.5. The 38mm thick flush door shutter shall be made by Boiled Waterproof single/Double leaf solid core and resin bound door shutter and covered on both side surface with veneer including the all structure to be fixed on site in true line and level for easy and smooth operations of flush door shutter.

3.6. 38mm thick flush door shutter shall be covered on both surface using by 4mm thick veneer and edge covered by 38mm X 12mm thick beading patti with French

polish of approved make including matchup to existing furniture laminates or veneer of wooden shutters.

3.7. The detailed specification shall be followed providing and fixing 28 mm thick single/ double leaf solid core and resin bound B.W.P. FLUSH DOOR SHUTTERS, confirming to IS: 1659 - 1960 and 2202 part I – 1962 as modified unto date BOTH SIDE 4mm thick Veneer pressed with teakwood lipping (36mm X 5mm size) with polishing or painting as per specification & design around the shutters and fixed to existing frame and as specified including cost of all materials, S.S. Hinges Heavy Duty 5" Size, Brass Aldrop, Brass Baby Latch handle, Brass Stopper, S.S. Satin Finish Baseboard Door Stop 3", machineries and equipment's, with all leads and lifts, loading and unloading charges, transportation cost and conveyance of all materials, labour etc. complete for successful completion of work as per specifications at all floor levels and as directed by the Engineer-in-Charge.

3.8. The entire work to be carried out as per the drawings and design and in the pattern as directed by E.I.C. & High Court Authority.

4.0. Mode of measurements and payment

4.1. Veneer finished flush door shutter work: The measurement of Veneer finished flush door shutter work including the polishing and fixing on site using by required hardware shall be taken only after the completed the work as per site situation and requitement of concern authority with structures / shutters are fixed in its final finished position in line, level and plumb. The rate shall be for a unit of one square meter basis. Flush Door Shutter single side surface area shall be measured outer length and height of objects in decimal of a meter.

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

Item No. 24

Providing and fixing 5 mm thick tinted glass cladding in approved colour and shade of Saint Gobain, AIS glass or equivalent make with aluminium framing of Jindal Aluminium, Hindalco or equivalent make of size 101.60 × 44.75 × 2 mm (1.537 kg/m weight) section code Jindal: 14130 as required including fabrication, erection, powder coating, EPDM gasket, structural silicone sealant, SS fasteners,

scaffolding and all complete as per design approved by Architect/High Court Authority and direction given by Engineer-in-Charge.

1.0. Workmanship:

1.1. This item includes providing and fixing 5 mm thick tinted glass cladding in approved colour and shade of Saint Gobain, AIS glass or equivalent make with aluminium framing of Jindal Aluminium, Hindalco or equivalent make of size 101.60 × 44.75 × 2 mm (1.537 kg/m weight) section code Jindal: 14130 as required including fabrication, erection, powder coating, EPDM gasket, structural silicone sealant, SS fasteners, scaffolding and all complete as per design approved by Architect/High Court Authority and direction given by Engineer-in-Charge.

2.0. Mode of Measurement and Payment:

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

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

Item No. 25

Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm² working pressure polythene pipes of the following outside Dia. Low density, complete with special flange compression type fittings, wall clips etc. including making good the wall ceiling and floor. (G)110 mm.

Relevant specification shall be followed of General Technical Specification Booklet It.No.23.8/ P.173 expect 110 mm dia. 10.0 Kg. F/Cm² shall be considered instead of 6 Kg. F/Cm² working pressure and specifications. PIPE should be used of Astral/Prince/Dutron/ Finolex Brand or as approved by High Court Authority & Engineer in Charge.

Item No. 26

Charges for making holes from 100 mm to 160 mm dia in RCC wall, slabs or any other RCC members by diamond core cutting machine of HILTI or equivalent including disposing the debris. For all floors.

1.0. Workmanship:

1.1. This item includes Charges for making holes from 100 mm to 160 mm dia in RCC wall, slabs or any other RCC members by diamond core cutting machine of HILTI or equivalent including disposing the debris. For all floors.

2.0. Mode of Measurement and Payment:

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

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

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]

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. [Door/Aluminium Window] [It. No. 2]

1.0. Workmanship:

1.1. Contractor shall receive all types of Dismantling materials from the site. The calculation of dismantled door/aluminium window 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. [Door/Aluminium Window] 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-3

Dismantling Credit: Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [M.S. Grill] [It. No. 3]

1.0. Workmanship:

1.1. Contractor shall receive all types of Dismantling materials from the site. The calculation dismantled material 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. [M.S. Grill] 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 Kg.

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. [Glass Cladding with Aluminium Section] [It. No. 4]

1.0. Workmanship:

1.1. Contractor shall receive all types of Dismantling materials from the site. The calculation dismantled material 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. 4. [Glass Cladding with Aluminium Section] 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 Smt.

Item No. DC- 5

Dismantling Credit: Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [Roller Blind] [It. No. 5]

1.0. Workmanship:

1.1. Contractor shall receive all types of Dismantling materials from the site. The calculation dismantled material 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. 5. [Roller Blind] 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 Smt.

Item No. DC- 6

Dismantling Credit: Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [PVC Pipe] [It. No. 6]

1.0. Workmanship:

1.1. Contractor shall receive all types of Dismantling materials from the site. The calculation dismantled material 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. 6. [PVC Pipe] 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 Rmt.

Item No. DC- 7

Dismantling Credit: Credit of all types of Dismantling materials from the site. Given to credit of dismantling material if necessity of applicable. [Artificial Grass]
[It. No. 7]

1.0. Workmanship:

1.1. Contractor shall receive all types of Dismantling materials from the site. The calculation dismantled material 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. 7. [Artificial Grass] 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 Smt.

:: GENERAL TECHNICAL AND IMPORTANT CONSIDERATIONS ::

1.0. The present work shows the quantities that may be either in pieces or along the particular length 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 :-

Construction, addition and alteration work in Auditorium Building at Gujarat High Court at Ahmedabad.
[Extension of first floor by providing light weight roofing, fabrication work, glass cladding, painting, waterproofing, fixing tiles and misc. civil work in Auditorium Building.]

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	3	4	5	6	7	8
1	Cement	34.380 M.T.	Cement	(1) Initial & Final Setting Time (2) Compressive Strength (3) Consistency (4) Fineness (5) Soundness	M.T. Test No. Upto 50 1 50 to 100 2 100 to 200 3 200 to 300 4 300 to 500 5 500 to 800 6 800 to 1300 7 & 8 test for larger consignment	1 Test	
2	Sand	66.38 Cu.m	Sand	(1) Fineness Modulus (2) Specific Gravity (3) Water absorption (4) Clay & Fine Silt Content	1 / 150 M ³	1 Test	
3	Water		Water	(1) Potability (2) Salinity	One Test Per Sources	1 Test	
4	20 mm aggregate	49.10 Cu.m	20 mm aggregate	(1) Gradation (2) Flakiness Index (3) Impact Value (4) Water Absorption (5) Crushing Strength	1 / 150 M ³	1 Test	
5	Bricks	29440 Nos	Bricks	(1) Compressive Strength (2) Water absorption (3) Soundness	One Sample for every 50000 Nos	1 Test	

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

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Sr. No.	Particular of work	Tender Item No.
1	10% for Colour work	19 & 20
2	15% for Water Proofing	12


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