

::- M&R PROGRAMME -::**M & R ESTIMATE For DDSA Pkg 10 ChilakotaRWSS****Dist. :Dahod****PART - B (CIVIL)****DETAILS STANDARD SPECIFICATION**

ITEM NO.1 ::- Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete

Material

Oil bound washable distemper and primer shall be of approved brand and manufacturer. The distemper shall be of required colour and shade and the same shall conform to IS-428-1969.

Workmanship :

Scaffolding: - Where scaffolding is required, shall, erected in such a way that as far as possible no parts of scaffolding shall rest against the surface to be distempered. A properly scared and well tilled supposed platform may be used for distempering. Where ladders are used, palaces of old gunny bags shall be tied at top and bottom to prevent scratches to the walls and floors. For distempering to ceiling, proper stage scaffolding shall be erected where necessary.

Preparation of Surface:

The undecorated surface to be distempered shall be thoroughly brushed free from dust, dirt, grease, mortar dropping and other foreign matter and sand. Proposed smooth new plaster surface shall be allowed to dry for at least 2 months before applications of distemper.

All unnecessary nails shall be removed, pitting in plaster shall be made good with plaster of parts, mixed with dry distemper of colour to be used . The surface shall then be rubbed down again with a fine grade sand paper and made smooth. A coat of distemper shall be applied over the patches. the surface shall be allowed in dry thoroughly before the required coat of distemper is followed. The surface affected by moulds moss, funnel angles litmus afforescene etc. shall be treated in accordance with I.S. 2395 (Part-I) 1966. Before applying distempering, any unevenness shall be made good by applying putty made plaster of Paris mixed with water on entire surface including building up the undulation and then sand papering the same after it is dry.

Priming coat:

A priming coat of distemper primer of approved manufacturer and abide shall be applied over prepared surface in case of new work on undecorated surface. If the distemper premiering is done after the well surface, dried completely, the distemper shall be applied.

Application of primer shall be done as under:

The primer shall be applied with a brush on the clean dry and smooth surface. Horizontal stokes shall be given first and vertical stokes shall be applied immediately afterwards. This entire operation will constitute one coat. The surface shall be finished as uniformly as possible leaving no brush marks. It shall be allowed to day for at lest 48 hours before oil bound distemper or paint is applied.

Oil bound distemper is not recommended to be applied within six months of the completion of wall plaster.

Preparation of Oil bound distemper :

The distemper shall be diluted with water or any other prescribed thinner in a manner recommended by the manufacturer only. Sufficient quantity of distemper required for a day's work shall be prepared.

Application of Distemper:

For undecorated surfaces, after the primer coat is dried for at least 48 hours, the surface shall be lightly sand papered to make it smooth for receiving the distemper, taking care not to rub out the priming coat. All loose particles shall be dusted off after rubbing. Minimum two coats of distemper shall be applied with brushes in horizontal strokes followed immediately by vertical strokes which together shall constitute one coat. The subsequent coats shall be applied after time interval of at least 24 hours between consecutive coats to permit proper drying of the preceding coat. The finished surface shall be even and uniform with outpatcher, brush marks, distemper drops etc.

Sufficient quantity of distemper 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.

15 cm double bristled distemper brush shall be used. After day's work brushes shall be thoroughly washed in hot water with roap solution and hung down to dry. Old brushes which are dirty and caked with distemper shall not be used on the work.

Perceptive measurements:

The surface of doors, windows, floors, articles, furniture etc. and such other parts of the buildings, as are not to be distempered shall be protected from being splashed upon such surface shall be cleaned of distemper splashes in any.

Mode of measurements & payment :

Priming coat of distemper primer, scraping of surface spotted by shrunk sots, removal of oil and grease spots, treatment for infection of efflorescence, mould moss, funnel, angle and litchis and patch repairs to plaster shall be included in this item for which nothing extra shall be paid.

All the work shall be measured not in the decimal system as in place subject to the following limits unless otherwise stated hereinafter.

- a) Dimensions shall be measured to the nearest 0.01 m.
- b) Area in individual items shall be worked out to the nearest 0.01 sq.m. All work shall be measured in sq. . metre. No deductions shall be made for ends , of joints, beams, pusto etc. and openings, not exceeding 0.5 sq.m. each and no addition shall be made for reveals, jambs, soffits, sills etc. of these things nor for finish all-round ends, joints, beams, ports etc. Deductions of opening exceeding 0.5 sq.m. but not exceeding 3 m. each shall be made as follows and not addition shall be made for revelers, jambs, soffits, etc. of these openings.
 - a) When both the faces of walls are 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 reveal is less than that of the other side. Where the width of reveals on the both faces of wall are equal. Deduction of 50% of area of opening on each face shall be made from area of finish.
 - c) When only one face of wall is treated and the other face is not treated, full deductions shall be made if the width of the reveal on treated side is less than that on untreated side 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.

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

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

Item includes removing nails, making good holes, cracks, patches with materials similar in composition.

The rates includes cost of all materials, labours, scaffolding, protective measures etc. involved in all operations described above. This shall also include conveyance, delivery, handling, unloading, storing work etc.

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

ITEM NO.2 :- "Distemping (Two coats) with oil bound distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth."

Material

Oil bound washable distemper and primer shall be of approved brand and manufacturer. The distemper shall be of required colour and shade and the same shall conform to IS-428-1969.

Workmanship :

Scaffolding: - Where scaffolding is required, shall, erected in such a way that as far as possible no parts of scaffolding shall rest against the surface to be distempered. A properly scared and well tilled supposed platform may be used for distemping. Where ladders are used, palaces of old gunny bags shall be tied at top and bottom to prevent scratches to the

walls and floors. For distempering to ceiling, proper stage scaffolding shall be erected where necessary.

Preparation of Surface:

The undecorated surface to be distempered shall be thoroughly brushed free from dust, dirt, grease, mortar dropping and other foreign matter and sand. Proposed smooth new plaster surface shall be allowed to dry for at least 2 months before applications of distemper.

All unnecessary nails shall be removed, pitting in plaster shall be made good with plaster of parts, mixed with dry distemper of colour to be used. The surface shall then be rubbed down again with a fine grade sand paper and made smooth. A coat of distemper shall be applied over the patches. the surface shall be allowed to dry thoroughly before the required coat of distemper is followed. The surface affected by moulds moss, funnel angles litmus afforescene etc. shall be treated in accordance with I.S. 2395 (Part-I) 1966. Before applying distempering, any unevenness shall be made good by applying putty made plaster of Paris mixed with water on entire surface including building up the undulation and then sand papering the same after it is dry.

Priming coat:

A priming coat of distemper primer of approved manufacturer and abide shall be applied over prepared surface in case of new work on undecorated surface. If the distemper premiering is done after the well surface, dried completely, the distemper shall be applied.

Application of primer shall be done as under:

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

Oil bound distemper is not recommended to be applied within six months of the completion of wall plaster.

Preparation of Oil bound distemper :

The distemper shall be diluted with water or any other prescribed thinner in a manner recommended by the manufacturer only. Sufficient quantity of distemper required for a day's work shall be prepared.

Application of Distemper:

For undecorated surfaces, after the primer coat is dried for at least 48 hours, the surface shall be lightly sand papered to make it smooth for receiving the distemper, taking care not to rub out the priming coat. All loose particles shall be dusted off after rubbing. Minimum two coats of distemper shall be applied with brushes in horizontal strokes followed immediately by vertical strokes which together shall constitute one coat. The subsequent coats shall be applied after time interval of at least 24 hours between consecutive coats to permit proper drying of the preceding coat. The finished surface shall be even and uniform with outpatcher, brush marks, distemper drops etc.

Sufficient quantity of distemper 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.

15 cm double bristled distemper brush shall be used. After 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 distemper shall not be used on the work.

Perceptive measurements:

The surface of doors, windows, floors, articles, furniture etc. and such other parts of the buildings, as are not to be distempered shall be protected from being splashed upon such surface shall be cleaned of distemper splashes in any.

Mode of measurements & payment :

Priming coat of distemper primer, scraping of surface spotted by shrunk spots, removal of oil and grease spots, treatment for infection of efflorescence, mould moss, funnel, angle and

litchis and patch repairs to plaster shall be included in this item for which nothing extra shall be paid.

All the work shall be measured not in the decimal system as in place subject to the following limits unless otherwise stated hereinafter.

- a) Dimensions shall be measured to the nearest 0.01 m.
- b) Area in individual items shall be worked out to the nearest 0.01 sq.m. All work shall be measured in sq. . metre. No deductions shall be made for ends , of joints, beams, pustus etc. and openings, not exceeding 0.5 sq.m. each and no addition shall be made for reveals, jambs, soffits, sills etc. of these things nor for finish all-round ends, joints, beams, ports etc.
Deductions of opening exceeding 0.5 sq.m. but not exceeding 3 m. each shall be made as follows and not addition shall be made for revelers, jambs, soffits, etc. of these openings.
- a) When both the faces of walls are 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 reveal is less than that of the other side. Where the width of reveals on the both faces of wall are equal. Deduction of 50% of area of opening on each face shall be made from area of finish.
- c) When only one face of wall is treated and the other face is not treated, full deductions shall be made if the width of the reveal on treated side is less than that on untreated side 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.

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

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

Item includes removing nails, making good holes, cracks, patches with materials similar in composition.

The rates includes cost of all materials, labours, scaffolding, protective measures etc. involved in all operations described above. This shall also include conveyance, delivery, handling, unloading, storing work etc.

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

ITEM NO.3 ::- Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanicn the surface of all dirt, dust and other foreign matter.

The painting shall be done by approved brand enamel paint in three coats including priming coat of new surface of doors, windows etc. surface shall be prepared by thoroughly booming cleaning, and making free from dirt, dust and other foreign matter. Painting shall be even at all places colour shall be approved prior to applying from Engineer-in-charge.
Payment shall be made per Smt. Basis.

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ITEM NO.4 ::-Labour charges for cleaning of sump / GL including cleaning and removing algae, calcinations, sludge, dirt deposition from bottom and as well as from wall of container, disinfection by bleaching powder with all necessary tools and plants, labours and cost of disinfectant etc complete (02 times in a year ie., 10 times the contract period).

- 1. 27.20 Lacs Liter @ Jada kheriya ESR
- 2. 6.30 Lacs Liters @ Jada Kheriya BPT

3. 12.00 LacsLtr @ Rozam BPT
4. 3.60 LacsLtr @ Dhadhela BPT
5. 19.40 lacsLtr @ Biliya BPT
6. 6.00 LacsLtr @ Nelsur BPT
7. 4.00 LacsLtr @ Undar BPT

Work shall be carried out as per details in item & instruction of Engineer-in-charge,.
Necessary safety provision made while carrying out work.
Payment shall be made as per Schedule – B.

Signature of Contractor

**Deputy Executive Engineer,
P.H.S.S.Division
Limkheda**

**Executive Engineer,
P.H.Works Division
Dahod.**