

21379/Spec Ph-III/P&S/64/MAP

03 Dec 2012

(All PMs & DEPMCs)

SPECIFICATIONS: SANITARY FITTINGS

1. Refer this Headquarters letter No 21378/Vendor PH-III/P&S/03/MAP dt 29 Jun 2012
2. Given in the succeeding sub paragraphs are the specifications for Sanitary fittings for the future projects of MAP Phase-II & Phase-III:-

(a) **Water closet (Pedestal Pattern)** Sanitaryware shall be provided with complete accessories covering floor mounted Water Closets (WCs) with seat-covers, inlet/outlet gaskets and coupled closets and monoblocks with seat-covers, cistern fittings and fixing screws. European type (Pedestal Pattern) water closet shall be 40 cm high, wash down pattern with concealed "P" or "S" trap as directed including plastic hinge and lid solid type with rubber buffers confirming to IS: 2548 Part-I – 1996 complete, flushing cistern shall be PVC cistern of 3/6 liters dual capacity ISI marked confirming to ISI: 7231 with 32 mm bore polythene flush pipe of sufficient length internal fittings (valve less symphonic) brass handle and pair of painted cast iron brackets. Water closets shall be fixed with brass screw of appropriate size. Jointing of flush pipe to water closet flushing run shall be done with red lead cement. The WC shall be fitted with health faucet, chromium plated rising spray with wall brackets with 1.5 m long metallic flexible tube, in officers Qtrs. The WC's in JCO's & OR Qtrs. Chromium plated jet spray with PVC pipe complete shall be provided. The surfaces of the Sanitaryware when examined from any point in the viewing circle (as described in IS 2556, from a distance of 60 cm to the unaided eye of a trained observer at a light intensity of 300 lx), shall be free from visual defects like pinholes, blisters, bubbles, crazing, discoloration, dull finish, egg-shell finish, exposed body, scratches etc. The minimum wall thickness of the vitrified ceramic body shall not be less than 6 mm at any section and the minimum thickness of the ceramic glaze at any section not less than 0.5 mm. When tested by the method described in IS 13630, none of the individual values of water absorption shall exceed 0.75% and the arithmetical mean of the values shall not exceed 0.5%. When tested by the method described in IS 13630, none of the test pieces shall show crazing. When tested by the ball draining method described in IS 2556 for WC's, the number of balls drained in a single attempt shall not be less than 90 out of 100. The seat-covers of the WCs to be soft-close (noise of falling eliminated) type, have anti-bacterial coating and the functionality of the hinges of these be warranted for a period of two years. The WCs should be able to bear a load of 100 Kg.

(b) **Water Closet Anglo Indian Type** Water closet Anglo Indian Type shall be provided where shown on drawings. Water closet (Anglo Indian) shall be vitreous china UNIVERSAL with 'P' trap. WC with 'P' trap shall be screwed to hard wood plug embedded/fixed to floor. Low level flushing cistern PVC 3/6litre dual flush, feather touch operated bearing IS-7231 with plastic seat cover bearing number IS-2548 (Part I) 1996. Seat shall be fitted to WC and shall be of solid PVC/fiber. Low level flushing cistern of make as per the list of approved list of makes/agencies and as approved by the PM. Cisterns shall be fixed to walls by means of suitable size screws and wooden plugs.

(c) **WASH HAND BASINS**

(i) All rectangular wash hand basins shall be of size 550 x 400 mm wall Mounting type. All oval wash basins shall be of size 560 x 410 mm. Each wash Hand basin shall consist of following:-

- (aa) CP brass waste fitting 32 mm dia.
- (ab) CP brass bottle trap 32 mm with CP brass pipe to wall CP brass cast wall flange.
- (ac) GI Waste pipe 32 mm dia (medium grade).
- (ad) The brackets shall be embedded in walls in cement concrete (1:2:4) type B1 block of size 10 cm x 10 cm x 23 cm.

(d) Necessary counter and full mirror where shown on drawing shall be provided in all toilets of Officer's DUs.

(e) The above items shall not be measured and paid separately under Sch 'A' Sec II or in other schedules under any circumstances as the cost of above item shall be deemed to be included In lump sum of building in Sch 'A' Part-I.

(f) Oval type hand wash basin with granite top shall be provided in all toilets of Officer's DUs.

(g) **FLUSHING CISTERN** Flushing Cistern 3/6 Ltr dual capacity ISI marked white, feather touch PVC low level with 32 mm bore polythene flush pipe sufficient length, including internal fitting (valve less syphonic) white colour, ISI marked(IS 7231). Cistern fittings included with the cisterns be of dual-flush type, allowing options of 3 or 6 litres of flushing capacity for water-saving (Certified by UPC, ANSI, WRAS and ASSE). The functionality of cistern fittings be warranted for a period of two years.

(h) **TOWEL RINGS** Towel rings with bracket of brass chromium plated shall be provide near each wash wash hand basin all the DUs. The outer diameter of brass pipe for towel ring shall be 12 mm and having wall thickness 25 gauge. The minimum weight of the towel ring shall not be less than 250gms. The towel ring shall be open at one side.

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for DG MAP

Internal

Team 'A'	-	for necessary action please
Team 'B'	-	-do-
Contract Section Team 'A'	-	-do-
Contract Section Team 'B'	-	-do-
Arch Section	-	-do-