PART 1 – GENERAL

1.1 Range of works

.1 Supply and installation of gypsum required to work.

.2 Sealing joints.

1.2 Related work

.1	Steel doors and frames	Section 08 11 14E
.2	Metallic wall framing system	Section 09 22 16E
.3	Paint	Section 09 91 26E

1.3 Reference standards

.1 Unless stated otherwise, construct as per ACNOR A82.31 – M91 standard.

1.4 Samples

.1 Submit samples as per requirements of section 01 33 00E – Submittal procedures.

.2 Submit samples for angles reinforcement, out-crop and fluted mouldings.

1.5 Technical data

.1 Submit technical data for each product used.

1.6 Scheduling

1. Work carried out in two phases, see drawings limits.
2. Scheduling, see section 01 32 18E and directive Ministerial representative.
3. The place of work is within an occupied building.

1.7 Guarantee

1. Provide a certificate of guarantee, signed and issued on behalf of the Ministerial representative, stating that all the works in this section are warranted against defects for a period of five (5) years from the date of signature of the certificate of provisional acceptance work. Comply with section 01 78 00E.

PART 2 – PRODUCTS

2.1 Gypsum panels

.1 Throughout unless otherwise: Standard panels type X: as per ACNOR A82.27-M91 standard, regular, thickness indicated on drawings.

.2 Where indicated: Waterproof sheets of type X, with fiberglass mat and treated core against humidity for indoor application; accordance with ASTM C1177/C1177M / ASTM C1178/C1178M, 16 mm thick, 1200 mm width and the greatest length possible, with squared edges at the sides and ends.
Specified product: Type X, AQUATOUGH 16mm by FIBEROCK by CGC.

a. Alternative products accepted:
   i. DENSHIELD FIREGUARD type X, 16mm (5/8'') by Giorgia-Pacific;
   ii. DUROCK type 16mm (5/8'') by CGC;
   iii. GLASROC type X, 16mm (5/8'') by Certainteed.

.3 Note: No product called "Light" will be approved.

2.2
Fasteners and adhesives

.1 Nails, screws and fasteners: as per ACNOR A82.31-M91 standard.

.2 Adhesive for wall framing system: as per ONGC 71-GP-25M-77 standard.

.3 Strip adhesive: as per manufacturer recommendation, without asbestos.

.4 Adhesive for lamination of fibre glass panels.

2.3
Accessories

.1 Flushing mouldings, reinforced angles furring type: galvanized steel of commercial quality 0,5 mm thick, bare, with zinc Z275, as per ASTM A525M-86 standard, perforated wings in one piece.

.2 Acoustical weatherproof mastic: as per CAN/CGSB-19.21-M87 standard.

.1 Acceptable weatherproof products for the present work must be on the list of approved products given by the approval commission for weatherproof products for joints of ONGC.

.3 Insulating strips: rubberized, waterproofed, cellular neoprene, 3mm thick, 12mm large with at least one face coated by a permanent self-adhesive, in appropriate length for panels.

.4 Cement for joints: premixed cement, ready to use, with vinyl base without asbestos, as per ACNOR A82.31-M91 standard.

.5 Kraft paper joint strips especially treated with minute perforations.

.6 "U" shape galvanized steel strip: to maintain gypsum moulding in partitioning areas where there are some empty spaces.

.7 Expansion joints: such as CGC no. 093.

.8 Finishing "L" moulding, galvanized steel, around window's perimeter and all openings.

.9 Finishing moulding and pre-painted steel fold, as per the plan's details and dimensions.

.10 Stone wool: AFB by Roxul

PART 3 – WORK

3.1
Installation of gypsum panels

.1 All partitions go from floor slab to the next upper one when there are no indications on drawings.

.2 Do not install gypsum panels before other false frame, fasteners, shims, electrical and mechanical installations are approved.

.3 Install one or two thickness of gypsum panels to the wall frame or to the furring, with screwing fasteners and wall-frame adhesive for the first thickness. Fix screws at 300mm intervals maximum.

.4 Where indicated, install one thickness of gypsum panel on concrete surfaces or on concrete blocks.

.5 Apply a continuous strip of 12mm in diameter of a waterproof acoustical product, around gypsum panels and structural frame and where partitions join the fixed components of the building. Seal perfectly all cuttings made around electrical boxes, pipes and other perforations in the partitions, where the perimeter has an acoustic sealant and/or fire and smoke dampers.

.6 Insert properly soundproof wool braids between frames to obtain a continuous acoustical protection and/or fire and smoke dampers. Coordinate installation of soundproof wool with installation of metallic frame for doors and frames and interior windows placed in soundproof partitions. In very thick partition, maintain wool braids with mechanical fasteners, as recommended by manufacturer and approved by Ministerial representative. Fill properly all striations of the steel bridge where soundproof partitions meet.

3.2
Accessories

.1 Install accessories square, plumb and on level. Adjust them solidly in the chosen area. When possible, use full length pieces. Make well-adjusted joints, aligned and solidly saddles. Miter angles and adjust perfectly, without leaving rough edges. Install components at 150mm interval.

.2 Install out-crop mouldings around the perimeter of suspended ceilings.

.3 Install out-crop mouldings at junction points of gypsum panels with surfaces having no cover joint and where indicated. Seal joints with waterproof product.

.4 Install insulating strips in a continuous matter to sides of gypsum panels and to out-crop mouldings, at their meeting position, with metallic frames of windows and exterior doors, to ensure a break in the thermal conduction.

.5 Install a moulding at junction of wall/ceiling according to indications. Reduce the number of joints to a minimum; use angle mouldings and joint.

.6 Finishing "L" moulding, galvanized steel, around window's perimeter and all openings.

3.3
Recess joints

.1 Make recess joints, around each overture, formed with prefabricated components with two out-crop mouldings installed back to back, drown in gypsum panel, cover and fixed independently on each side of the joint.

.2 Install a continuous polyethylene strip (making an anti-dust screen) in the back of the recess joint and overlap

.3 Place recess joints where indicated on the drawings. In addition to indications, place receding joints in areas where there is a change in the nature of the support. Place at every 10 meters maximum, along large corridors and on all walls that are longer than 10 meters. On the ceiling, place receding joints at every15 linear meter in all directions.

.4 Make receding joints square and aligned.

.5 Make receding joints at floor level inside staircases.

3.4 Joint strip and plaster

.1 Finish joints between panels and in recessing angles with the following products: Joint paste, joint strips and strip coating. Apply these products as recommended by the manufacturer and smooth down by thinning the work so it meets the finish of the panel surface.

.2 Cover angle mouldings, recess joints and if need be, the trimmings with two (2) coats of joint paste and with one (1) coat of strip coating. Make it smooth and thin so it meets the surface finish of the panel.

.3 Fill screw head holes with joint paste and strip coating until achieving a smooth uniform surface, flush with adjacent gypsum panel surface, so the holes become invisible once application of coating is finish.

.4 Lightly sand the sharp edges and other imperfections. Try not to sand adjoining surfaces that have no need.

.5 Once installation is done, work must be smooth, on level and plumb, with no corrugations and other defects and must be ready to receive the finish coating.

3.5 Soundproof and fireproof integrity

.1 Fit together structural elements (beams, girders, etc.) and others that are situated on top of partitions to be built up to the bypass to get the same soundproof and fireproof properties and/or fire and smoke dampers that of underlying partition.

.2 Where partitions will be built up to the bypass, block all openings perfectly tight around wires, ducts, pipes, structural elements and others. Block openings left by striation of bypass with a gypsum panel and cut according to shape of bypass. Seal each side.

3.6 Soundproof exterior walls integrity

.1 Interior partitions that are against exterior walls must be prolonged up to the exterior wall mullion or metallic insulated panel. Block space between beam and exterior floor covering.

********** END **********