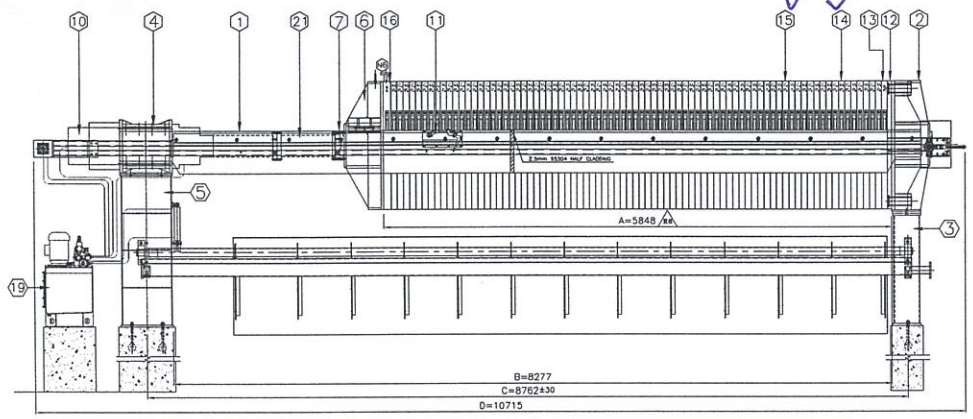
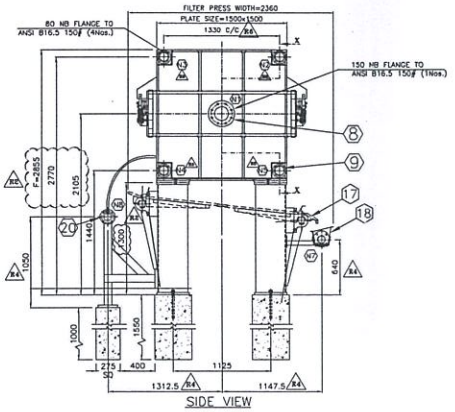
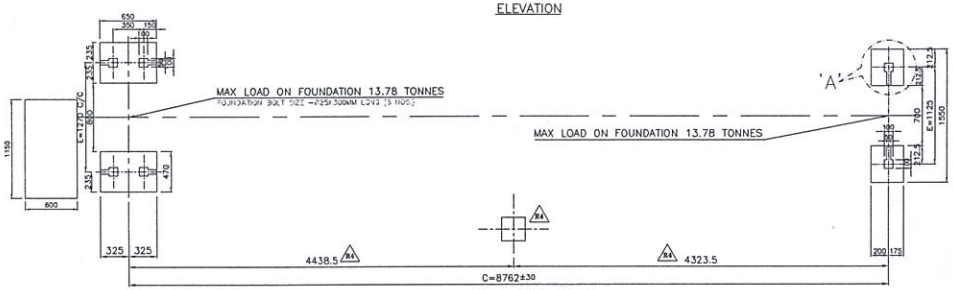


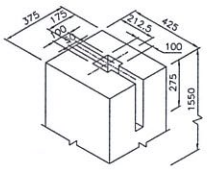

ELEVATION



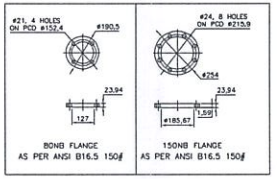

SIDE VIEW

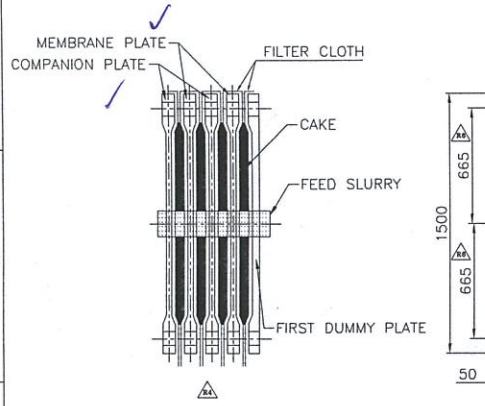



FOUNDATION PLAN

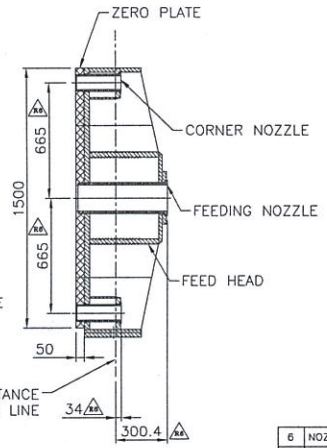


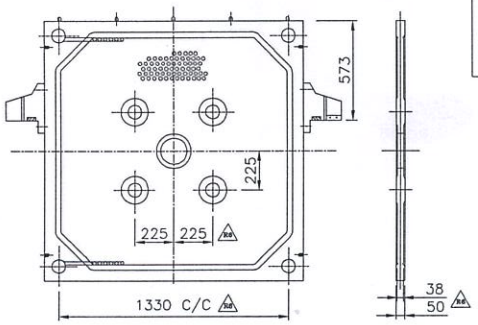

VIEW–'A'




SECTIONAL "X–X"
SECTIONAL DRAWING OF FEED HEAD




COMPANION PLATE DETAIL
(AS VIEWED FROM FEED HEAD SIDE)

| SPECIFICATION OF FILTER PRESS:- | |
|---|---|
| SIZE OF PRESS | 1500x1500 |
| NO. OF CHAMBERS | 80 |
| NO. OF EXPANDABLE CHAMBERS | 10 |
| FILTER ELEMENTS | PP |
| TYPE OF DELIVERY | CLOSE |
| CLOSING DEVICE | DOUBLE ACTING HYD. CYLINDER |
| CYLINDER TONNAGE | 250 TON |
| TECH.DATA FOR 80 (EXP TO 80) CHAMBER FILTER PRESS | |
| FILTRATION AREA | 256 m² |
| FILTRATION AREA (MAX.) | 288 m² |
| CAKE HOLDING CAPACITY | 4096 LTS. |
| CAKE HOLDING CAPACITY (MAX.) | 4608 LTS. |
| TOTAL WEIGHT OF EMPTY PRESS | 18.90 TON |
| TOTAL WEIGHT WITH WET.CAKE | 25.05 TON |

| REV | REVISION DETAILS | DRAWN | CHECKED | DATE |
|---|---|---|---|---|
| 6 | NOZZLE & PLATE DETAILS UPDATED | VIJAY | VIJAY | 09/04/10 |
| 5 | NOZZLES NOMENCLATURE UPDATED | BALRAM | VIJAY | 09/02/10 |
| 4 | UPDATED AS PER COMMENTS (DETAILS OF NOZZLES N7 & N8) | VIJAY | VIJAY | 04/02/10 |
| 3 | UPDATED AS PER COMMENTS (DETAILS OF FEED HEAD) | VIJAY | VIJAY | 04/01/10 |
| 2 | AS PER HDO COMMENTS (INCREASED LEG HEIGHT) | VIJAY | VIJAY | 18/11/09 |
| 1 | ADD EXPANDABLE CHAMBERS, CHANGE B,C,D DIMENSION | BALRAM | VIJAY | 13/11/09 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 5908 | B | 8287 | C | 8762 | | |
| D | 10715 | E | 1125/1270 | F | 2855 | | |

## NOZZLE SCHEDULE

| SR. NO. | NOMENCLATURE | SIZE | CODE | PURPOSE |
|---|---|---|---|---|
| 1 | N1 | 150 NB | ANSI.B16.5,150 # | SLURRY INLET/ CORE BLOW OUTLET |
| 2 | N2 | 80 NB | ANSI.B16.5,150 # | AIR INLET/ WASH/FILTRATE OUTLET |
| 3 | N3 | 80 NB | ANSI.B16.5,150 # | WASH WATER INLET/ WASH/FILTRATE OUTLET |
| 4 | N4 | 80 NB | ANSI.B16.5,150 # | WASH WATER INLET/ FILTRATE OUTLET |
| 5 | N5 | 80 NB | ANSI.B16.5,150 # | WASH WATER INLET/ WASH/FILTRATE OUTLET |
| 6 | N6 | 40 NB | ANSI.B16.5,150 # | CORE BLOW INLET |
| 7 | N7 | 80 NB | ANSI.B16.5,150 # | DRIPPAGE OUTLET |
| 8 | N8 | 50 NB | ANSI.B16.5,150 # | SQUEEZE HEADER |

NOTE:–
1) ALL DIMENSIONS ARE IN mm.
2) DO NOT FIX FOUNDATION BOLTS PRIOR TO ERECTION OF THE FILTER PRESS.
3) WEIGHTS PROVIDED FOR EMPTY PRESS & WITH WET CAKE ARE AS PER EXPANDED CHAMBERS & ARE HENCE THE MAXIMUM WEIGHTS.
4) SECTIONS OF MEMBRANE & COMPANION PLATES ARE SHOWN FOR REFERENCE PURPOSE ONLY. ACTUAL CROSS – SECTION SHALL DIFFER.
5) THE GA DRAWING SHOWS ARRANGEMENT OF 1 PRESS. THE SECOND PRESS SHALL BE MIRROR IMAGE OF THIS DRAWING.

QTY:– 02 NOS

| SR. NO. | NAME | QTY. | MATERIAL |
|---|---|---|---|
| 21 | PROVISION DISTANCE PIECE | 1 | M.S. |
| 20 | SQUEEZE HEADER | 1 | M.S. |
| 19 | POWER PACK | 1 | STD |
| 18 | SIDE TRAY | 1 | SS316 |
| 17 | BOMB DOOR DRIP TRAY | 1 | SS316 |
| 16 | TAIL PLATE | 1 | PP |
| 15 | COMPANION PLATE | 39 | PP |
| 14 | MEMBRANE PLATE | 40 | PP |
| 13 | HEAD PLATE | 1 | PP |
| 12 | ZERO PLATE | 1 | PP |
| 11 | PLATE SHIFTING MECHANISM | 1 | STD |
| 10 | HYD. CYLINDER-250T | 1 | STD |
| 9 | PP LINNER-80 NB | 4 | PP |
| 8 | PP LINNER-150 NB | 1 | PP |
| 7 | COUPLING | 1 | M.S. |
| 6 | MOVING PLATE | 1 | M.S. |
| 5 | END PLATE LEG | 2 | M.S. |
| 4 | END PLATE | 1 | M.S. |
| 3 | FEED HEAD LEG | 2 | M.S. |
| 2 | FEED HEAD | 1 | M.S. |
| 1 | TIE BAR (SS304 HALF CLADDING) | 2 | M.S. |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ZERO PLATE | THICK 50 mm | QTY | 1 | HEAD PLATE | THICK 63 mm | QTY | 1 |
| MEMBRANE PLATE | THICK 90 mm | QTY | 40 | COMPANION PLATE | THICK 50 mm | QTY | 39 |
| TAIL PLATE | THICK 85 mm | QTY | 1 | CAKE | THICK 32 mm | QTY | 80 |

**PURAV INDUSTRIES**
265, M.S ROAD GRANT ROAD CORNER MUMBAI – 400 008

TITLE :– G.A.& FOUNDATION DRG. FOR FILTER PRESS

CLIENT: URANIUM CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)

PROJECT: URANIUM ORE PROCESSING PLANT AT TUMMALAPALLE, A.P. PKG.NO. UCTL–2

CONSULTANT: DEVELOPMENT CONSULTANTS PVT. LTD.

EPC /TURNKEY CONTRACTOR: HINDUSTAN DORR OLIVER LIMITED

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | 06/10/2009 | SIGN. | | JOB NO. | PI/F-23/09-10 | SCALE | N.T.S. |
| DRAWN | BALRAM | | | FILTER PRESS/ITEM FP –1001 | | QTY. SHT. OF REV. | |
| CHKD. | VIJAY | | | DRG.NO. | 60/AF/PR/CD/AUT.SHT | 2 1 1 6 | |
| APPD. | KISHOR | | | | | | |