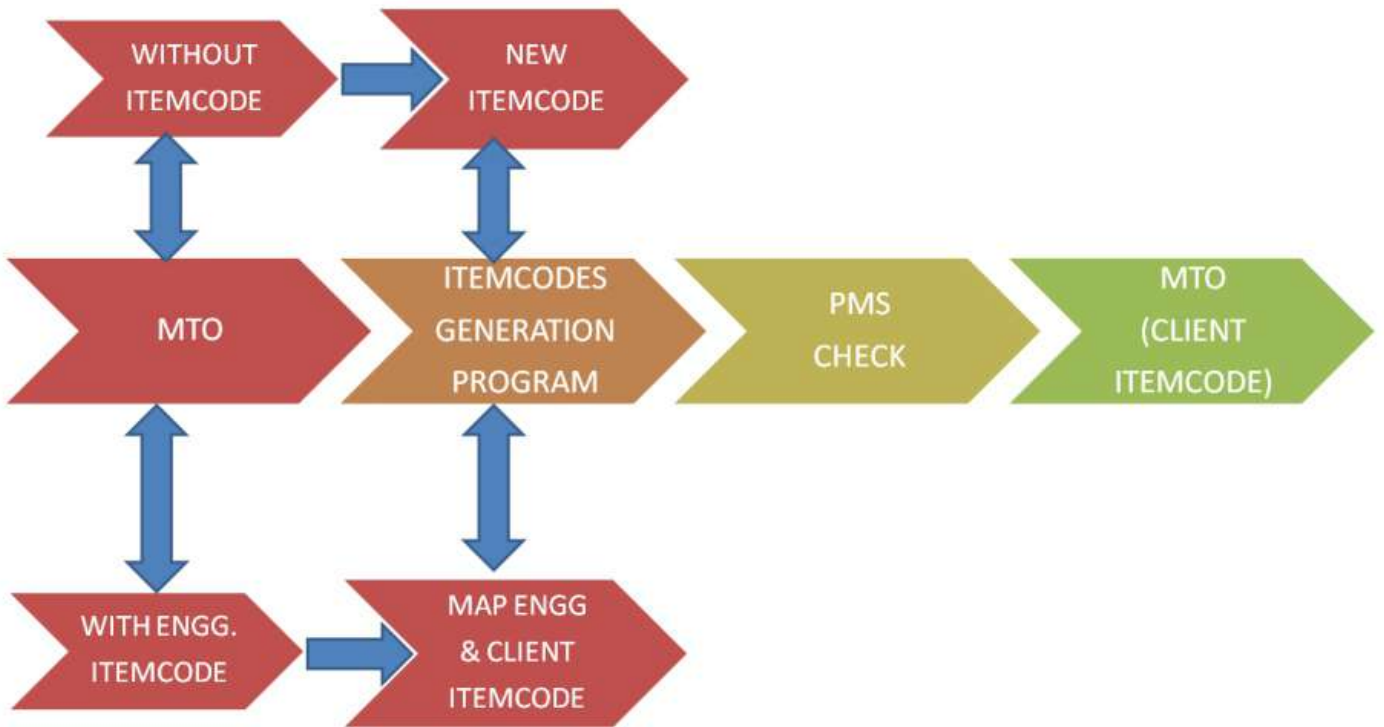




PIPING /STRUCTURAL /CIVIL/E&I/MECHANICAL



ICGP

ICGP is a software for creation of new ItemCode generation of equivalent ItemCode as per the company norms. Item codes are generated by reading standard parameters of item description like Item type, Item sub-type, nominal size, schedule/rating, material description / material grade, thickness, diameters, special remarks etc.

Item Code generation program follows a logical process for code generation, where variety of rule logics can be created to obtain the desired new codes. ICGP takes care of all Item Codification activity required for generating&updating the central library of ItemMaster which is used in EPCPROMAN.

Description Logic

Check All
 None
 Copy
 Swap
 Move
 Merge
 Merge By

Check	Att1	Att2	Att3	Att4	Att5	Att6
<input checked="" type="checkbox"/>	PIPE	CS A106-B	SMLS	BE	STD	B36.10M
<input checked="" type="checkbox"/>	PIPE	CS A106-B	SMLS	BE	STD	B36.10M
<input checked="" type="checkbox"/>	PIPE	CS A106-B	SMLS	BE	STD	B36.10M
<input checked="" type="checkbox"/>	PIPE	ITCS A333-6	SMLS	BE	STD	B36.10M
<input checked="" type="checkbox"/>	PIPE	ITCS A333-6	SMLS	BE	STD	B36.10M
<input checked="" type="checkbox"/>	PIPE	CS A106-B	SMLS	BE	STD	B36.10M
<input checked="" type="checkbox"/>	PIPE	CS A106-B	SMLS	BE	STD	B36.10M

1. User can define a name for description logic or on the basis of attribute count user can select description logic from existing logics:

Rows Count : 7 New Logic : Existing Logic : new

Attribute	Attribute Value
Att1	STYPE_ALT
Att2	MAT
Att3	CONSTR
Att4	ECL_ALT
Att5	SCH1
Att6	DIMSTD

2. Click apply logic

ITYPE	STYPE	ICODE2	DES	ICODE_PREVIEW	NB1_IN
GASK	GASK	PGG154SR215BL01A000	GASKET, 316 SS-FG, SPIRAL WOUND, 1/8in (3.2 MM) THK, INNER RING PER B16.20, CS OUTER RING, CL150, B16.5, B16.20	20	20
BOLT	BOLT	PB1BLC2ACS100010J3B	STUD BOLT (CONT), CR-MO A193-B7, W/ 2 HVY HEX NUTS, A194-2H, B1.1,158.75		1.125
FLNG	FLWN	PFWC1B15RFSTD11A000	WN FLG, CS A105N, CL150, RF, STD, B16.5	20	20
PIPE	PIPE	PPPC1HSMBESTD11A000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M	20	20
ELBO	ELBW	P4LC34SMBESTD01A000	45 LR ELBOW, CS A234-WPB, SMLS, BE, STD, B16.9	20	20
OLET	SKSW	PLSC1BK3000S201A00H	SOCKOLET, CS A105N, CL3000, SW, HDR/BRN, SP97	20	20
FCPL	NRSW	PNPC1HSMPE160L40H00	NIPPLE, CS A106-B, SMLS, PE, SCH 160, B36.10M, 4in	1	1
VALV	VTSW	PVGC1B80SWE181H0H00	GATE VALVE, SW, CL800, MFR DIMS, STD PORT, HW, VGA0031#8-SW	1	1
FCPL	NRSC	PNPC1HSPMP160L40H00	NIPPLE, CS A106-B, SMLS, PE X MNPT, SCH 160, B36.10M, 4in	1	1
CAP	KASC	PCPC1BF3B20000H00	CAP, CS A105N, FNPT, CL3000, B16.11	1	1
ELBO	ELBW	P9LC34SMBESTD01A000	90 LR ELBOW, CS A234-WPB, SMLS, BE, STD, B16.9	20	20
GASK	GASK	PGG154SR215BL018000	GASKET, 316 SS-FG, SPIRAL WOUND, 1/8in (3.2 MM) THK, INNER RING PER B16.20, CS OUTER RING, CL150, B16.5, B16.20	16	16
VALV	VYFL	PVFC2S15RF81J1E8000	BUTTERFLY VALVE, RF, CL150, API 609 CAT B DIMS, GO, VBU1502-RF-GO	16	16
BOLT	BOLT	PB1BLC2ACS100010H2K	STUD BOLT (CONT), CR-MO A193-B7, W/ 2 HVY HEX NUTS, A194-2H, B1.1,254	1	1
FLNG	FLWN	PFWC1B15RFSTD118000	WN FLG, CS A105N, CL150, RF, STD, B16.5	16	16
PIPE	PIPE	PPPC1HSMBESTD118000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M	16	16
ELBO	ELBW	P4LC34SMBESTD018000	45 LR ELBOW, CS A234-WPB, SMLS, BE, STD, B16.9	16	16
PIPE	PIPE	PPPC1HSMBESTD116000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M	12	12
BOLT	BOLT	PB1BLC2ACS100010H2K_1	STUD BOLT (CONT), CR-MO A193-B7, W/ 2 HVY HEX NUTS, A194-2H, B1.1,133.35	1	1
OLET	SKSW	PLSC1BK3000S201800F	SOCKOLET, CS A105N, CL3000, SW, HDR/BRN, SP97	16	16
FCPL	NRSW	PNPC1HSMPE160L40F00	NIPPLE, CS A106-B, SMLS, PE, SCH 160, B36.10M, 4in	0.75	0.75
VALV	VTSW	PVGC1B80SWE181H0F00	GATE VALVE, SW, CL800, MFR DIMS, STD PORT, HW, VGA0031#8-SW	0.75	0.75
FCPL	NRSC	PNPC1HSPMP160L40F00	NIPPLE, CS A106-B, SMLS, PE X MNPT, SCH 160, B36.10M, 4in	0.75	0.75
CAP	KASC	PCPC1BF3B20000F00	CAP, CS A105N, FNPT, CL3000, B16.11	0.75	0.75
ELBO	ELBW	P9LC34SMBESTD018000	90 LR ELBOW, CS A234-WPB, SMLS, BE, STD, B16.9	16	16
MISC	CP	DKTC7H15RF000K20000	RADDLE BLNK (SPCR SET) CS A516 70N, CL150, RF, B16.48	16	16

ICODE created in ICGP are unique on the combination of Engineering Code (ICODE2) and Description. IPMF data can be imported into ICGP using excel file. ICGP have two inputs i.e. Master Data and IPMF Data. The Master data can be uploaded by admin. The IPMF data can be uploaded by user and admin. The item code is generated against the IPMF data.

Following are the ways by which ICODE can be created in ICGP

- 1) Master mapping
- 2) Description breakup
- 3) Manual creation

ITYPE	STYPE	ICODE2	DES
PIPE	PIPE	PPPC1HSMBESTD11A000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M
PIPE	PIPE	PPPC1HSMBESTD118000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M
PIPE	PIPE	PPPC1HSMBESTD116000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M
PIPE	PIPE	PPPC3USMBESTD113000	PIPE, ITCS A333-6, SMLS, BE, STD, B36.10M
PIPE	PIPE	PPPC3USMBESTD114000	PIPE, ITCS A333-6, SMLS, BE, STD, B36.10M
PIPE	PIPE	PPPC1HSMBESTD11C000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M
PIPE	PIPE	PPPC1HSMBESTD117000	PIPE, CS A106-B, SMLS, BE, STD, B36.10M

The screenshot shows the 'Auto ICode Generator' application window. It features two main data grids: 'ICGP DATA' and 'MASTER DATA'. The 'ICGP DATA' grid has columns for APPLY, ICODE_PREVIE, ITYPE, STYPE, DES, NB1_MM, NB2_MM, NB3_MM, NB4_MM, EC1, EC2, MAT, DIMSTD, and SCH1. A callout box labeled 'IPMF data' points to the first row of this grid. Below the grid, a legend indicates: a green square for 'Single ICode', a blue square for 'Multiple ICode', and a grey square for 'Multiple ICode with ICode_Preview'. A callout box labeled '1. Click on the row in the upper grid' points to the first row of the ICGP DATA grid. The 'MASTER DATA' grid has columns for ITYPE, STYPE, DIMSTD, SCH1, RAT, EC1, EC2, CONSTR, MAT, DES, NB1_MM, NB2_MM, NB3_MM, and NB4_MM. A callout box labeled 'Data will be populated from master data on the basis of matched criteria' points to the 'DES' column of the first row in the MASTER DATA grid. At the bottom, there is a 'Filtered Rows: 7 of 7' indicator and an 'Icode Rule Logic' field containing the text '|ITYPE|STYPE|NB1_IN'. A callout box labeled 'Mastercodes' points to the first row of the MASTER DATA grid.

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