

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drq no			Drq Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
1	0001	31631112049-00A	HALB	F30	DEAERATOR ST.TANK ASSLY (SEC-I)					
		1.000	EA	33,641.000		31631112049-00			00	
					1.000				13.04.2015	
GROUP 1 & 4, WEIGHT OF TEST COUPON					PLATES= 373 Kgs.					
2	0001	11631111433-00A	HALB	E	SHELL ASSLY (SEC-I)					
		1.000	EA	30,390.000		11631111433-00			00	
					1.000		x		13.04.2015	
GROUP 1 TO 6										
3	0001	11631111433-01AA	HALB	E	SHELL SEGMENT					
		3.000	EA	6,191.730		11631111433-01			00	
			SA516 GR.70		1.000		x		06.05.2014	
4	0001	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
RECTANGLE :2,500.000 X 12,655.000										
MM	3.000	18,626.57	KG	6,208.859						
	HY10470	09	SA516GR70	A2					19.05.2015	
REQUIRED PLATE LEGTH 7490+5155										
4	0099	41631000617-08A	HALB	E	TEST COUPON FOR 25MM THK PLATE					
		12.000	EA	19.230		41631000617-08			00	
			SA516 GR.70		1.000				19.05.2015	
TO BE CUT FROM THE SAME PLATE										
5	0001	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	12.000	230.796	KG	19.233						
	HY10470	09	SA516GR70	A2					19.05.2015	
					MA BY QC & IBR					
3	0002	11631111433-01BA	HALB	E	SHELL SEGMENT					
		1.000	EA	4,475.960		11631111433-01			00	
			SA516 GR.70		1.000		x		06.05.2014	

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 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no			Drq Rev
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0001	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
RECTANGLE :1,810.000 X 12,655.000										
MM	1.000	4,495.214	KG	4,495.214						
HY10470		09	SA516GR70		A2				19.05.2015	
REQUIRED PLATE LEGTH 7490+5155										
4	0099	41631000617-08A	HALB	E	TEST COUPON FOR 25MM THK PLATE					
RECTANGLE :1,810.000 X 12,655.000										
		4.000	EA	19.230			41631000617-08			00
			SA516 GR.70		1.000				19.05.2015	
TO BE CUT FROM THE SAME PLATE										
5	0001	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	4.000	76.932	KG	19.233						
HY10470		09	SA516GR70		A2				19.05.2015	
MA BY QC & IBR										
3	0003	11631111433-02AA	HALB	E	DISHED END ID 4000X 25MM MIN. THK. SF=75					
RECTANGLE :280.000 X 350.000										
		1.000	EA	4,203.000			11631111433-02			00
			SA516 GR.70		1.000	x			06.05.2014	
FOR MANUFACTURE REF. DRG. 41631000609										
4	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
RECTANGLE :2,500.000 X 5,000.000										
MM	2.000	5,500.000	KG	2,750.000			NA			
HY10470		09	SA516 GR70		A2				19.05.2015	
4	0099	41631000617-09A	HALB	E	TEST COUPON FOR 28MM THK PLATE					
RECTANGLE :2,500.000 X 5,000.000										
		2.000	EA	21.540			41631000617-09			00
			SA516 GR.70		1.000				19.05.2015	
TO BE CUT FROM THE SAME PLATE										
5	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	2.000	43.120	KG	21.560			NA			
HY10470		09	SA516 GR70		A2				19.05.2015	

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 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no			Drq Rev
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0100									
		1.000	ST							19.05.2015
FOR PLATE WELDING REFER DRG. 41631000619										
3	0004	11631111433-03A	HALB	E	STIFFENER RING (THK. 25X DIA.3996/3496)					
		1.000	EA		578.560		11631111433-03			00
			SA 516 GR. 70		1.000		x			06.05.2014
4	0001	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
RECTANGLE :1,860.000 X 2,380.000										
MM	1.000	868.760	KG		868.760					
	HY10470	09	SA516GR70	A2						06.05.2014
MA BY QC & IBR										
3	0005	11631111433-04A	HALB	E	SPIDER ASSLY					
		1.000	EA		721.920		11631111433-04			00
			SA 516 GR. 70		1.000		x			06.05.2014
GROUP 1 TO 3										
4	0001	AA1012808041	ZROH	F70	BEAM 150X75 IS2062 GRE250 QLTQ-A					
LENGTH =1,860.000										
MM	8.000	223.200	KG		27.900					
	AA10108	11								06.05.2014
4	0002	AA1011819139	ZROH	F70	PLATE 20 IS2062 GRE250(FE410W) QLTQ-B					
D=500.000										
MM	1.000	30.827	KG		30.827					
	AA10119	15		A1						06.05.2014
CENTRE PLATE					MA BY QC					
4	0003	11631111433-04C	HALB	E	RING FOR SPIDER (OD 3996 ID 3596 X 25 )					
		1.000	EA		469.030		11631111433-04			00
			SA 516 GR. 70		1.000		x			06.05.2014

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**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drg no**      **Drg Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
5	0001	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
RECTANGLE :1,590.000 X 2,380.000										
MM	1.000	742.649	KG	742.649						
HY10470		09	SA516GR70	A1					06.05.2014	
					MA BY QC					
3	0006	31631112042-00	HALB	E	SLIDING SUPPORT ASSLY					
		1.000	EA	1,765.180			31631112042-00		00	
					1.000		x		06.05.2014	
GROUP 1 TO 7										
4	0001	31631112042-01	HALB	E	PAD					
		1.000	EA	554.080			31631112042-01		00	
					1.000		x		06.05.2014	
5	0001	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
RECTANGLE :600.000 X 4,700.000										
MM	1.000	553.425	KG	553.425						
HY10470		09	SA516GR70	A3					06.05.2014	
					MA BY QC & LLOYDS					
4	0002	31631112042-02	HALB	E	VERTICAL RIB					
		1.000	EA	414.890			31631112042-02		00	
					1.000		x		06.05.2014	
5	0001	AA1011819171	ZROH	F70	PLATE 32 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :1,180.000 X 3,660.000										
MM	1.000	1,084.883	KG	1,084.883						
AA10119		15		A1					06.05.2014	
					MA BY QC					
4	0003	31631112042-03	HALB	E	BASE PALTE					
		1.000	EA	512.710			31631112042-03		00	
					1.000		x		06.05.2014	

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 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no			Drq Rev
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
5	0001	AA1011819180	ZROH	F70	PLATE 36 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :500.000 X 3,700.000										
MM	1.000	522.810	KG	522.810						
AA10119		15		A1					06.05.2014	
					MA BY QC					
4	0004	AA1011819155	ZROH	F70	PLATE 25 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :234.000 X 220.000										
MM	4.000	40.412	KG	10.103						
AA10119		15		A1					06.05.2014	
					MA BY QC & LLOYDS					
4	0005	AA1011819155	ZROH	F70	PLATE 25 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :234.000 X 425.000										
MM	4.000	78.068	KG	19.517						
AA10119		15		A1					06.05.2014	
					MA BY QC					
4	0006	AA1011819155	ZROH	F70	PLATE 25 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :234.000 X 830.000										
MM	4.000	152.464	KG	38.116						
AA10119		15		A1					06.05.2014	
					MA BY QC					
4	0007	AA1011819155	ZROH	F70	PLATE 25 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :234.000 X 150.000										
MM	2.000	13.776	KG	6.888						
AA10119		15		A1					06.05.2014	
					MA BY QC					
3	0100	D21631000014			WELD DETAILS AND WPS NOS. FOR DEAEERATOR					
		1.000	ST							
		03							06.05.2014	
					MA BY QC					
2	0004	11631111434-00A	HALB	E	NOZZLE ASSLY. (SEC-I)					
		1.000	EA	3,251.000			11631111434-00			01
					1.000		x		13.04.2015	
GROUP 1 TO 16										

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 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drg no**      **Drg Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no			Drg Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
3	0001	31631111588-08E	HALB	E	MAN HOLE ASSLY. (24" 300# SORF)					
		1.000	EA	696.310		31631111588-08			00	
					1.000		x		06.05.2014	
GROUP 1 TO 11, S6, REFER VAR 06 OF DRG.					11631111434					
4	0001	41631114023-05	HALB	E	PIPE					
		1.000	EA	99.410		41631114023-05			01	
			SA516 GR70		1.000		x		30.01.2012	
5	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :590.000 X 1,885.000										
MM	1.000	122.225	KG	122.225						
	HY10470	09	SA516GR70		A2				15.02.2012	
					MA BY QC & CIB					
5	0099	41631000617-03A	HALB	E	TEST COUPON FOR 14MM THK PLATE					
		2.000	EA	10.770		41631000617-03			00	
			SA516 GR.70		1.000		x		15.04.2015	
TO BE CUT FROM THE SAME PLATE										
6	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	2.000	21.540	KG	10.770						
	HY10470	09	SA516GR70		A2				19.05.2015	
4	0002	AA7246106200	ZSUD	F	FLANGE CS 24" ANSI 300 SORF					
		1.000	EA	216.000						
	AA7246106-00	03			A2				15.02.2012	
					MA BY QC					
4	0003	HY7240365166	ZSUD	F	NAB MSW GASKET 24" " #300 RF GRAPHITE					
		1.000	EA	0.500						
	HY7240365	01	GRAPHITE						30.01.2012	

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 T31631112049-00A      03      P006      TOTAL DEAERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
4	0004	HY7142299304	ZSUD	F70	STUD 2 NUTS M36X3X240					
		24.000	EA	2.891		NA				
HY7142299-04		04	ASTM A193B7/194 2H						30.01.2012	
Engineering Remarks					Technology Remarks					
4	0005	HY7246772200	ZSUD	F	CS BL FLANGE 24" " # 300 RF					
		1.000	EA	342.000						
HY7246772		02	A105		A2				15.02.2012	
					MA BY QC & CIB					
4	0006	31631111588-08A	HALB	E	HANDLE					
		1.000	EA	0.800		31631111588-08		00		
					1.000		x		30.01.2012	
5	0001	HY1010299107	ZROH	F70	RND CS 20					
LENGTH =340.000										
MM	1.000	0.836	KG	0.836						
HY10199		03	CS GR15 C8						30.01.2012	
4	0007	31631111588-08B	HALB	E	ROD					
		1.000	EA	4.550		31631111588-08		00		
					1.000		x		30.01.2012	
5	0001	AA1020208155	ZROH	F70	ROUND 36 HOTRLD/FORGD(NORMZ) IS1570GR40C8					
LENGTH =580.000										
MM	1.000	4.634	KG	4.634						
AA10208		07							30.01.2012	
4	0008	31631111588-08C	HALB	E	INNER HINGE					
		2.000	EA	3.280		31631111588-08		00		
					1.000		x		30.01.2012	

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H.Material BOM ST Plant Header Desc Base Qty(EA)  
 T31631112049-00A 03 P006 TOTAL DEAERATOR ST.TANK ASSLY. (SEC-I) 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev  
 35,114.000 HEEDEASH 13.04.2015 27.05.2015 31631112049-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no			Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
5	0001	AA1011819171	ZROH	F70	PLATE 32 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :110.000 X 175.000										
MM	2.000	9.672	KG	4.836						
AA10119		15	A1					30.01.2012		
					MA BY QC					
4	0009	31631111588-08D	HALB	E	OUTER HINGE					
RECTANGLE :110.000 X 195.000										
		2.000	EA	3.830		31631111588-08			00	
					1.000	x			30.01.2012	
5	0001	AA1011819171	ZROH	F70	PLATE 32 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :110.000 X 195.000										
MM	2.000	10.776	KG	5.388						
AA10119		15	A1					30.01.2012		
					MA BY QC					
4	0010	HY7161096200	ZSUD	F70	WASHER MCD GAL 37-ST					
RECTANGLE :110.000 X 195.000										
		4.000	EA	0.089		NA				
HY7161096-00-00-01		01	IS2016 GAL ST					30.01.2012		
4	0011	HY7171041859	ZSUD	F70	PIN TAPER 6X60					
RECTANGLE :110.000 X 195.000										
		1.000	EA	0.016		NA				
AA7171041		05	IS 6688 TYPE A					30.01.2012		
3	0002	11631111434-06A	HALB	E	SPHERICAL DISH DIA.626/950X25 THK.					
RECTANGLE :110.000 X 195.000										
		1.000	EA	106.920		11631111434-06			01	
					1.000	x			06.05.2014	
FOR S6, FOR S6, FOR MANUFACTURE REF.					DRG. 41631000609					
4	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
SQUARE = 1,295.000 X 1,295.000										
MM	1.000	368.946	KG	368.946		NA				
HY10470		09	SA516 GR70		A2			16.04.2015		
					MA BY QC & CIB					

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 35,114.000      HEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no		Drq Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
3	0003	11631111434-05	HALB	E	VENTILATOR CONN. 6"					
		1.000	EA	64.090			11631111434-05		01	
					1.000		x		06.05.2014	
GROUP 1 TO 6, S5, FOR NOZZLE CONFIG.REF.					VAR 04 OF DRG. 11631011178					
4	0001	AA1049355520	ZROH	F70	PIPE(SMLS) 168.3X10.97 CS SA106 GR B					
LENGTH =265.000										
MM	1.000	0.265	M	11.278						
	AA10455	09		A2					06.05.2014	
					MA BY QC & CIB					
4	0002	11631111434-05A	HALB	E	RF. PAD DIA. 184/300					
		1.000	EA	9.540			11631111434-05		01	
					1.000		x		06.05.2014	
5	0001									
		1.000	ST							
				A2					06.05.2014	
RF. PAD DIA. 184/300, MATL. COVERED IN					11631111434-21A,MA BY QC & CIB					
4	0003	AA7246106120	ZSUD	F70	FLANGE SOW CS 6" CL 300 RAISED FACE					
		1.000	EA	16.500			NA			
	AA7246106-03	03	ANSI B 16.5		A2				06.05.2014	
					MA BY QC & CIB					
4	0004	HY7142198192	ZSUD	F70	STUD 2 NUTS M20X130					
		12.000	EA	0.513			NA			
	HY7142198-04	04	ASTM A193B7/194 2H						06.05.2014	
4	0005	HY7240365085	ZSUD	F	NAB M.S.W. GASKET SIZE 6" #300 GRPH					
		1.000	EA	0.150						
	HY7240365	01	GRAPHITE						06.05.2014	

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 T31631112049-00A      03      P006      TOTAL DEAERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drq no			Drq Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0006	HY7246772120	ZSUD	F70	FLANGE BLIND CS 6" CL 300 RAISED FACE					
		1.000	EA	21.220		NA				
		HY7246772-02	02	ANSI:B16.5		A2			06.05.2014	
					MA BY QC & CIB					
3	0004	41631112231-00	HALB	F30	HOOK					
		2.000	EA	2.670		41631112231-00			00	
					1.000		x		06.05.2014	
4	0001	AA1020208104	ZROH	F70	ROUND 20HOTRLD/FORGD(NORMLZ) IS1570GR40C8					
LENGTH =1,200.000										
MM	2.000	5.904	KG	1.000						
		AA10208	07						02.06.2009	
3	0005	41631114127-01	HALB	E	INITIAL HEATING PIPE 14" L=3280					
		1.000	EA	266.300		41631114127-01			00	
					1.000		x		06.05.2014	
4	0001	AA1049455053	ZROH	F70	PIPE(SMLS) 355.6X 9.53 CS SA106 GR B					
LENGTH =3,290.000										
MM	1.000	3.290	M	267.576						
		AA10455	09			A3			07.05.2014	
					MA BY QC & LLOYDS					
3	0006	41631113740-00	HALB	F30	HEATING STEAM SUPPORT ASSY.					
		6.000	EA	22.320		41631113740-00			00	
					1.000		x		06.05.2014	
GROUP 1 TO 5										
4	0001	41631113348-09	HALB	F30	PAD					
		12.000	EA	1.400		41631113348-09			00	
					1.000		x		09.06.2009	
MA BY QC & EIL										

**PART LIST-MATERIAL BOM**

H.Material BOM ST Plant Header Desc Base Qty(EA)  
 T31631112049-00A 03 P006 TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I) 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev  
 35,114.000 HEEDEASH 13.04.2015 27.05.2015 31631112049-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no			Drg Rev
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
5	0001	HY1041870060	ZROH	F70	PLT BQ 8 MM					
SQUARE = 150.000 X 150.000										
MM	12.000	16.956	KG	1.420						
HY10470		09			A3				09.06.2009	
					MA BY QC					
4	0002	AA1012508137	ZROH	F70	ANGLE EQL 75X75X8 IS2062 GRE250 QLTY-A					
LENGTH =640.000										
MM	6.000	34.176	KG	5.600						
AA10108		11			A1				09.06.2009	
4	0003	41631113740-00A	HALB	F30	ANGLE ISMA 75X75X8					
LENGTH =570.000										
		6.000	EA	5.070			41631113740-00		00	
					1.000	x	09.06.2009			
5	0001	AA1012508137	ZROH	F70	ANGLE EQL 75X75X8 IS2062 GRE250 QLTY-A					
LENGTH =570.000										
MM	6.000	30.438	KG	5.070						
AA10108		11						09.06.2009		
4	0004	HY9603148113	ZSUD	F	U-BOLT GALVZD 14"					
LENGTH =475.000										
		6.000	EA	4.600						
HY9603148		06			A1				09.06.2009	
4	0005	AA1012508137	ZROH	F70	ANGLE EQL 75X75X8 IS2062 GRE250 QLTY-A					
LENGTH =475.000										
MM	6.000	25.368	KG	4.210						
AA10108		11			A1				09.06.2009	
3	0007	HY1041870078	ZROH	F70	PLT BQ 10 MM					
SQUARE = 60.000 X 60.000										
MM	4.000	1.132	KG	0.283						
HY10470		09	SA516 GR 70		A3				15.04.2015	
PAD (FOR MANHOLE HOOK), CUT TO DIA. 50										

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drq no		Drq Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0008	11631111434-07	HALB	E	STANDPIPE CONN. 2"				
		2.000	EA	4.090		11631111434-07		01	
					1.000		x		06.05.2014
GROUP 1 TO 2, S7, FOR NOZZLE CONFIG.REF.					VAR 17 OF DRG. 11631011178				
4	0001	AA1049355296	ZROH	F70	PIPE(SMLS) 60.3X 8.74 CS SA106 GR B				
LENGTH =330.000									
MM	2.000	0.660	M	3.666					
	AA10455	09		A2					06.05.2014
					MA BY QC & IBR				
4	0003	HY1041870060	ZROH	F70	PLT BQ 8 MM				
SQUARE = 120.000 X 120.000									
MM	2.000	1.808	KG	0.904					
	HY10470	09		A2					15.04.2015
BLANKING PLATE, CUT TO DIA. 110					MA BY QC & IBR				
3	0009	11631111434-03	HALB	E	INITIAL HEATING STEAM CONN. 14"				
		1.000	EA	201.240		11631111434-03		01	
					1.000		x		06.05.2014
GROUP 1 TO 3, S3, FOR NOZZLE CONFIG.REF.					VAR 01 OF DRG. 11631011178				
4	0001	AA1049455070	ZROH	F70	PIPE(SMLS) 355.6X12.7 CS SA106 GR B				
LENGTH =1,220.000									
MM	1.000	1.220	M	131.028					
	AA10455	09		A3					06.05.2014
					MA BY QC & CIB				
4	0002	11631111434-03A	HALB	E	SPHERICAL DISH DIA. 372/600X 25 THK.				
		1.000	EA	46.400		11631111434-03		01	
					1.000		x		06.05.2014
FOR MANUFACTURE REF. DRG. 41631000609									
5	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)				
SQUARE = 820.000 X 820.000									
MM	1.000	147.928	KG	147.928		NA			
	HY10470	09	SA516 GR70	A2					15.04.2015

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drg no**      **Drg Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0003	HY1041870159	ZROH	F70	PLT BQ 25 MM (SA516 GR70)					
D=410.000										
MM	1.000	25.910	KG	25.910						
HY10470		09	SA516GR70		A2					06.05.2014
BLANKING PLATE					MA BY QC & CIB					
3	0010	31631111566-00	HALB	F30	ANTI SURGE BAFFLE ASSLY.					
		2.000	EA	483.000			31631111566-00		00	
					1.000		x		06.05.2014	
GROUP 1 TO 7										
4	0001	41631113215-01	HALB	F30	CHANNEL 150X75					
		2.000	EA	63.200			41631113215-01		00	
					1.000		x		09.06.2009	
5	0001	AA1012708063	ZROH	F70	CHANNEL 150X75 IS2062 GRE250 QLTY-A					
LENGTH =3,775.000										
MM	2.000	126.840	KG	63.160						
AA10108		11							09.06.2009	
4	0002	41631113215-02	HALB	F30	CHANNEL 150X75					
		2.000	EA	56.300			41631113215-02		00	
					1.000		x		09.06.2009	
5	0001	AA1012708063	ZROH	F70	CHANNEL 150X75 IS2062 GRE250 QLTY-A					
LENGTH =3,365.000										
MM	2.000	113.064	KG	56.290						
AA10108		11							09.06.2009	
4	0003	41631113216-00	HALB	F30	BAFFLE PLATE					
		2.000	EA	332.700			41631113216-00		00	
					1.000		x		09.06.2009	

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no		Drq Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
5	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :3,860.000 X 790.000										
MM	2.000	766.010	KG	332.670						
HY10470		09	SA516/70		A1					09.06.2009
					MA BY QC					
4	0004	41631113214-01	HALB	F30	RIB					
RECTANGLE :160.000 X 410.000										
		4.000	EA	7.100			41631113214-01		00	
				A3	1.000		x	09.06.2009		
MA BY QC & LLOYDS										
5	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :160.000 X 410.000										
MM	4.000	32.956	KG	7.100						
HY10470		09	SA516/70		A1					09.06.2009
					MA BY QC					
4	0005	41631113214-02	HALB	F30	RIB					
RECTANGLE :160.000 X 410.000										
		4.000	EA	6.500			41631113214-02		00	
				A3	1.000		x	09.06.2009		
MA BY QC & LLOYDS										
5	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :160.000 X 410.000										
MM	4.000	32.956	KG	6.540						
HY10470		09	SA516/70		A1					09.06.2009
					MA BY QC					
4	0006	HY7142198150	ZSUD	F70	STUD 2 NUTS M20X90					
RECTANGLE :16.000 X 0.415										
		16.000	EA	0.415			NA			
HY7142198-04		04	ASTM A193B7/194 2H						09.06.2009	
					MA BY QC					
4	0007	AA7161001099	ZSUD	F70	WASHER MCD 21-ST					
RECTANGLE :32.000 X 0.017										
		32.000	EA	0.017			NA			
AA7161001-03		03	IS 2016 ST						09.06.2009	

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drg no**      **Drg Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0011	11631111434-12	HALB	E	SAFETY RELIEF VALVE CONN. 8"					
		2.000	EA	103.660			11631111434-12		01	
					1.000		x		06.05.2014	
GROUP 1 TO 6, S12, FOR NOZZLE					CONFIG.REF. VAR 08 OF DRG. 11631011178					
4	0001	AA1049355601	ZROH	F70	PIPE(SMLS) 219.1X12.7 CS SA106 GR B					
LENGTH =265.000										
MM	2.000	0.530	M	17.130						
	AA10455	09		A2					06.05.2014	
					MA BY QC & IBR					
4	0002	11631111434-12A	HALB	E	RF. PAD DIA. 235/400					
		2.000	EA	17.800			11631111434-12		01	
					1.000		x		06.05.2014	
5	0001									
		2.000	ST							
				A2					06.05.2014	
RF. PAD DIA. 235/400, MATL. COVERED IN					11631111434-21A					
4	0003	AA7246106138	ZSUD	F70	FLANGE SOW CS 8" CL 300 RAISED FACE					
		2.000	EA	25.500			NA			
	AA7246106-03	03	ANSI B 16.5	A2					06.05.2014	
					MA BY QC & IBR					
4	0004	HY7240365093	ZSUD	F	NAB M.S.W. GASKET SIZE 8" #300 GRPH					
		2.000	EA	0.200						
	HY7240365	01	GRAPHITE						06.05.2014	
4	0005	HY7246772138	ZSUD	F70	FLANGE BLIND CS 8" CL 300 RAISED FACE					
		2.000	EA	35.040			NA			
	HY7246772-02	02	ANSI:B16.5	A2					06.05.2014	
					MA BY QC & IBR					

# PART LIST-MATERIAL BOM

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drq no			Drq Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0006	HY7142198389	ZSUD	F70	STUD 2 NUTS M22X170					
		24.000	EA	0.758		NA				
		HY7142198-04	04	ASTM A193B7/194 2H					06.05.2014	
3	0012	41631114127-02	HALB	E	INITIAL HEATING PIPE 14" L=5990					
		1.000	EA	486.530		41631114127-02			00	
					1.000		x		06.05.2014	
4	0001	AA1049455053	ZROH	F70	PIPE(SMLS) 355.6X 9.53 CS SA106 GR B					
LENGTH =6,000.000										
MM	1.000	6.000	M	487.980						
		AA10455	09	A3					06.05.2014	
					MA BY QC & LLOYDS					
3	0013	11631111434-24	HALB	E	TEMPERATURE GAUGE CONN. M33X2					
		4.000	EA	0.680		11631111434-24			01	
					1.000		x		06.05.2014	
GROUP 1 TO 2, C4,C8,C9,C10										
4	0001	AA7326101329	ZSUD	F70	STUB STRT IMMER CS SCRW M33X2-F L=45 40					
		4.000	EA	0.400		NA				
		AA7326101-01	01	A2					06.05.2014	
					MA BY QC & IBR					
4	0002	HY9601207112	ZSUD	F70	PLUG M33X2					
		4.000	EA	0.280		NA				
		HY9601207-01-03	04	A1					06.05.2014	
					MA BY QC					
4	0003	HY7161094429	ZSUD	F70	WASHER SEALING 33X39X2					
		4.000	EA	0.001		NA				
		HY7161094-00-00-01	01	CSN029310					06.05.2014	

**PART LIST-MATERIAL BOM**

H.Material BOM ST Plant Header Desc Base Qty(EA)  
 T31631112049-00A 03 P006 TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I) 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev  
 35,114.000 HEEDEASH 13.04.2015 27.05.2015 31631112049-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0014	11631111434-10	HALB	E	BFP RECIRCULATION CONN. 10"					
		1.000	EA	107.640			11631111434-10		01	
					1.000		x		06.05.2014	
GROUP 1 TO 5, S10, FOR NOZZLE					CONFIG.REF. VAR 10 OF DRG. 11631011178					
4	0001	AA1049355695	ZROH	F70	PIPE(SMLS) 273.1X12.7 CS SA106 GR B					
LENGTH =470.000										
MM	1.000	0.470	M	38.333						
	AA10455	09		A2					06.05.2014	
					MA BY QC & IBR					
4	0002	11631111434-10A	HALB	E	RF. PAD DIA. 289/500					
		1.000	EA	28.280			11631111434-10		01	
					1.000		x		06.05.2014	
5	0001									
		1.000	ST							
				A2					06.05.2014	
RF. PAD DIA. 289/500, MATL. COVERED IN					11631111434-21A,MA BY QC & IBR					
4	0003	HY1041870132	ZROH	F70	PLT BQ 20 (SA516 GR70)					
SQUARE = 335.000 X 335.000										
MM	1.000	17.619	KG	17.619						
	HY10470	09	SA516GR70	A2					15.04.2015	
BLANKING PLATE, DRILL 1/2" NPT HOLE, CUT					TO DIA. 325 .MA BY QC & IBR					
4	0004	41631612907-00	HALB	F30	DISPERSER PIPE (SS) 10"					
		1.000	EA	21.480			41631612907-00		00	
					1.000		x		06.05.2014	
5	0001	HY1071155989	ZROH	F70	PIPE SS 273 X 9.3 A312 TP321					
LENGTH =440.000										
MM	1.000	0.440	M	1.000						
	AA10755	07		A1					02.06.2009	
					MA BY QC					

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no		Drq Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0005	HY1071886096	ZROH	F70	PLT SS 12 TP304L					
SQUARE = 335.000 X 335.000										
MM	1.000	10.774	KG	10.774						
HY10786		00			A2					15.04.2015
END COVER, CUT TO DIA. 325					MA BY QC & CIB					
3	0015	11631111434-23	HALB	E	PRESSURE GAUGE CONN. 1/2"					
		1.000	EA	0.350			11631111434-23		01	
					1.000		x		06.05.2014	
GROUP 1 TO 2, C3, FOR NOZZLE CONFIG.REF.					VAR 06 OF DRG. 11631011178					
4	0001	HE9691001012	ZSUD	F	SW COUPLING ANSI 6000# CS 1/2"X45					
		1.000	EA	0.230						
HE91001		05	SA350 LF2		A2					06.05.2014
					MA BY QC & LLOYDS					
4	0002	HE9791003017	ZSUD	F	3/8" BAR PLUG CS					
		1.000	EA	0.120						
HE91003		03	SA105		A2					06.05.2014
3	0016	HE9791003025	ZSUD	F	1/2" BAR PLUG CS (SA105)					
		1.000	EA	0.200						
HE91003		03	SA105							06.05.2014
ON HYDROTEST BLANKING PLATE FOR S10										
3	0100	D11631011178			NOZZLE DETAIL ASSLY					
		1.000	ST							
		00								15.04.2015
2	0100	D41631000609			DE ID4000X25 THK. (MIN.) WITH SPH DISH					
		1.000	ST							
		01								13.04.2015

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no		Drq Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
2	0101	D41631000619			PLATE FOR 2:1 ELLIPSOIDAL DISHED END					
		1.000	ST							
		00								18.04.2015
1	0101	31631112042-03B	HALB	F30	BOTTOM PLATE (SLIDING SUPPORT)					
		1.000	EA		512.710		31631112042-03			00
						1.000				13.04.2015
2	0001	AA1011819180	ZROH	F70	PLATE 36 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :500.000 X 3,700.000										
MM	1.000	522.810	KG		522.810					
	AA10119	15			A1					06.05.2014
					MA BY QC					
1	0102	41631113965-03SC	HALB	F30	SS PLATE					
		2.000	EA		20.000		41631113965-03			00
						1.000				13.04.2015
2	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L					
RECTANGLE :250.000 X 2,000.000										
MM	2.000	40.000	KG		20.000					
	HY10786	00			A1					01.06.2010
					MA BY QC					
1	0103	HE9817194000	ZSUD	F	TEFLON SHEET 2.5X250X2000					
		2.000	EA		2.500					
	HE51514-00	00	PTFE							13.04.2015
1	0104	HE9717444218	ZSUD	F	STUD 2 NUTS M56X3X400					
		8.000	EA		10.710		41631000567-21			00
	HY7142299-00	04	SA193B7/ SA194 2H							13.04.2015

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAEERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drg no**      **Drg Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no			Drg Rev
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
1	0105	HY7161096260	ZSUD	F70	WASHER MCD GAL 58-ST					
		16.000	EA	0.424			NA			
		HY7161096-00-00-01	01	IS2016 GAL ST						13.04.2015
1	0107									
		2.000	ST							
				A2						13.04.2015
		SRV 8"300/10"150#, SP 14(G), RC 110T/HR				, WT.381KG				
1	0108	AA7246101144	ZSUD	F70	FLANGE SOW CS 10" CL 150 RAISED FACE					
		2.000	EA	17.000			NA			
		AA7246101-02	02	ANSI B16.5			A2			13.04.2015
		FOR S12C,D				MA BY QC & CIB				
1	0109	HY7142198370	ZSUD	F70	STUD 2 NUTS M22X160					
		24.000	EA	0.728			NA			
		HY7142198-04	04	ASTM A193B7/194 2H						13.04.2015
		FOR S12C,D								
1	0110	HY7240364062	ZSUD	F	NAB M.S.W. GASKET SIZE 10" #150 GRPH					
		2.000	EA	0.300						
		HY7240364	00	GRAPHITE						13.04.2015
		FOR S12C,D								
1	0111	HY7240365093	ZSUD	F	NAB M.S.W. GASKET SIZE 8" #300 GRPH					
		2.000	EA	0.200						
		HY7240365	01	GRAPHITE						13.04.2015
		FOR S12C,D								
1	0112									
		5.000	ST							
				A1						13.04.2015
		THERMOWELL, C4,8,9,10, COVERED VIDE				, WT. 0.4KGS.MA BYQC				

**PART LIST-MATERIAL BOM**

**H.Material**      **BOM ST**      **Plant**      **Header Desc**      **Base Qty(EA)**  
 T31631112049-00A      03      P006      TOTAL DEAERATOR ST.TANK ASSLY. (SEC-I)      1

**Net Wt(KG)**      **Created by**      **Created on**      **Changed on**      **Drq no**      **Drq Rev**  
 35,114.000      HEEDEASH      13.04.2015      27.05.2015      31631112049-00      00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no			Drq Rev
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
1	0113									
		2.000	ST							
				A1						13.04.2015
TEMP. GAUGE, C4, COVERED VIDE MATL. NO.					HY7320301750, WT. 2 KGS.,MA BY QC					
1	0114	AA1049355083	ZROH	F70	PIPE(SMLS)- 21.3 X3.73 CS SA106 GR B					
LENGTH =1,000.000										
MM	1.000	1.000	M	1.600						
	AA10455	09		A2						13.04.2015
FOR C3					MA BY QC & CIB					
1	0115	AA7501468583	ZSUD	F70	GLOBE VALVE CS 1/2" CL 800 SW ENDS					
		1.000	EA	1.600			NA			
	AA7501468-00	00	BS:5352	A2						13.04.2015
FOR C3					MA BY QC & CIB					
1	0116									
		1.000	ST							
				A1						13.04.2015
PRESS. GAUGE, C3, COVERED VIDE MATL. NO.					HE9751463017, WT. 2.5KGS.MA BY QC					