



Numaligarh Refinery Limited
Commercial Department

CORRIGENDUM NO. 1 TO NOTICE INVITING TENDER

Date : Feb. 06, 2018

Name of Work: Procurement of PSV through open tender.

Tender no. : OC43000146/JIN dated 02-02-2018

- ❖ Kindly note that there is some data missing in the earlier data sheet uploaded in the tender so kindly consider the corrected data sheets as enclosed.
- ❖ Bidders (if any) who have already submitted their bids online, may if they wish, revise their bids during the due date of bid submission.

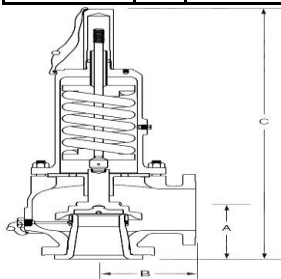
All other terms and conditions of the Tender Document remain unchanged.

CGM (Commercial & Legal)
Numaligarh Refinery Limited

CC:

- NIC e-tender portal <https://eprocure.gov.in/eprocure/app>,
- NRL website (www.nrl.co.in)

NUMALIGARH REFINERY LTD					
Data Sheet					
Pressure relief valve					
General	1	Tag number	Case Number		07-PSV-1204
	2	Service			BFW
	3	Application type			Safety
	4	Type of valve	To be provided by the vendor.		
	5	Design	To be provided by the vendor.		
	6	Bonnet type	To be provided by the vendor.		
Connection	7	Inlet : Size and rating		1" X 600	
	8	Outlet : Size and rating		2" X 300	
Materials	9	Body and Bonnet	To be provided by the vendor based on the service condition given below. The compatibility of the material with the service conditions should be guranted by the vendor.		
	10	Nozzle and disc			
	11	Guide and rings			
	12	Spring			
	13	Bellows			
Options	14	Cap over Adj Bolt	To be provided by the vendor.		
	15	Lever (lifting)	To be provided by the vendor.		
	16	Test Gag	To be provided by the vendor.		
Fluid data	17	Operating pressure		Kg/cm^2	43.3
	18	Set pressure	CDSP	Kg/cm^2	49
	19	Operating Temperature		Degree C	140
	20	Relieving Temperature			160
	21	Max Back pressure		Kg/cm^2	35
	22	CDSP		Kg/cm^2	49.49
	23	Allowable overpressure		%	
	24	Total flow capacity Rated		m3/hr	1.6
	25	Orifice size			
	26	Specific Gravity	Service condition		0.925
	27	H2O			
	28	Kerosene			
	29	Diesel			
	30	Unconverted oil			
	31	Total mass flow		Kg/hr	
	32	Total molar flow		Kg-moles/hr	
	33	Total liquid std. flow		m^3/hr	
	34	EP			
	35	Total Sulfur , ppm		ppm	
	36	Mercaptan Sulfur , ppm		ppm	
	37	Viscosity, cSt at 40 °C		cSt	
	38	Viscosity, cSt at 100 °C		cSt	0.5
	39	CUT POINTS		°C	



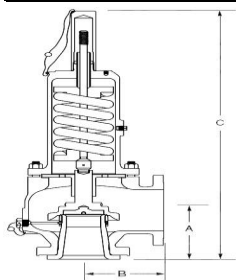
The PSV should comply to the following dimensions as follows:

A = 120 mm

B= 120 mm

C = 495 mm

NUMALIGARH REFINERY LTD					
Data Sheet					
Pressure relief valve					
General	1	Tag number	Case Number		04-PSV-9407
	2	Service			
	3	Application type			Safety
	4	Type of valve	To be provided by the vendor.		
	5	Design	To be provided by the vendor.		
	6	Bonnet type	To be provided by the vendor.		
Connection	7	Inlet : Size and rating		3" X 300	
	8	Outlet : Size and rating		4" X 300	
Materials	9	Body and Bonnet	To be provided by the vendor based on the service condition given below. The compatibility of the material with the service conditions should be guranted by the vendor.		
	10	Nozzle and disc			
	11	Guide and rings			
	12	Spring			
	13	Bellows			
Options	14	Cap over Adj Bolt	To be provided by the vendor.		
	15	Lever (lifting)	To be provided by the vendor.		
	16	Test Gag	To be provided by the vendor.		
Fluid data	17	Operating pressure		Kg/cm^2	
	18	Set pressure	CDSP	Kg/cm^2	37 37.37
	19	Operating Temperature		Degree C	90
	20	Relieving Temperature			
	21	Back pressure			0.7
	22	Allowable overpressure		%	10
	23	Total flow capacity Rated		Kg/hr	850.29
	24	Orifice size	To be provided by the vendor.		
	25	Specific Gravity	Service condition		
	26	H2O			73
	27	Kerosene			4235
	28	Diesel			63288
	29	Unconverted oil			6711
	30	Total mass flow		Kg/hr	74307
	31	Total molar flow		Kg-moles/hr	291
	32	Total liquid std. flow		m^3/hr	90.8
	33	EP			
	34	Total Sulfur , ppm		ppm	
	35	Mercaptan Sulfur , ppm		ppm	
	36	Viscosity, cSt at 40 °C		cSt	
37	Viscosity, cSt at 100 °C	cSt			
38	CUT POINTS			°C	



The PSV should comply to the following dimensions as follows:

A =107 mm

B= 115 mm

C = 496 mm

TSV Specification			
Job name : CRUDE UNLOADING FACILITY AT NRMT			
MOC no : MOC-NRMT-2016-329			
Tag No : 40-TSV-1105			
Items	Data	Items	Data
Inlet Size	0.75" NPTM	Op. pres. (Kg/cm2 g)	7
Outlet size	1" NPTF	Op. Temp.	40
Mat. Bonnet	ASTM A 105	Back pres. (kg/cm2 g)	ATM
Mat. Body	SS 316	Set. Pres (Kg/cm2 g)	11
Mat. Spring	CD PLATED CS	CDSP (Kg/cm2 g)	11
Code	API	Over pres. (%)	25
Service	CRUDE	Flow (M3/hr)	9
		Fluid state	LIQUID