

BID NUMBER	RW10392309/21
BID DESCRIPTION	SUPPLY & DELIVERY OF INSTRUMENTATION AND AUTOMATION EQUIPMENT SPARES
BIDDER NAME	

	DELIVERABLES (DESCRIPTION)	QTY (A)	UNIT OF MEASURE	RATE (B)	Total (A x B)
	LEVEL EQUIPMENT				
	VEGA EQUIPMENT				
1	VegaPuls31 Radar Level Part No.: RA-222 229	20	NO		R -
2	VegaPuls C21 Part No.: RA-222 22M	80	NO		R -
3	VegaPuls64 – Part No.: PS64.RWCORELAXBXCCHXKMXXX (eID: ZC4126959)	20	NO		R -
4	Vegapuls61 WL Part No.: PSWL61.XXBXCHKAX	10	NO		R -
5	Vegascan 693 Part No.: SCAN693.XXE	10	NO		R -
6	VEGASON 61 Model: 61XXAGHKMXX; Part No.: 1326690/001	10	NO		R -
7	Vega level sensor , -20...+80°C, Type: SW 72, 40 KHz, 10367897, Serial no:10343969	20	NO		R -
8	VegaMET 391 Controller MET391.XXHXX Part No.: 2053013/001	10	NO		R -
9	VegaPULSE WL 61 Radar Level 15m Part No.: 2560934/1	10	NO		R -
10	VegaSON62 ProfibusPA Level Tx 0.4-8m Part No.: 2051554/001	10	NO		R -
11	VEGASON62 – SON62.XXAGPKMXX	10	NO		R -
12	VEGAPULS C31 Radar Level Part No.: RA-222 229	50	NO		R -
13	VEGAPULS C21 Part No.: RA-222 22M	50	NO		R -
14	VEGAMET 841	15	NO		R -
15	PLICSCOM	10	NO		R -
16	VEGAMET 842	15	NO		R -

## ANNEXURE FOR BIDDING PURPOSES



17	VEGAMET 381	15	NO		R	-
18	VEGA PULSE WL 61 RADA LEVEL 15M PART NO: 2601950/1	30	NO		R	-
19	VEGAPLUS 61 by VEGA Range 0.25...5m, Process Pressure -20...+200kPa, (-.2...2Bar) Temperature -40. +80-degree C, Electronic 4...20mA HART, Power Supply 12...36V Protection: IP66/67	20	NO			0
20	Vega level sensor , -20...+80°C, Type: SW 72, 40 KHz, 10367897, Serial no:10343969	20	NO		R	-
21	VEGAMET 391 by VEGA Ambient Temperature -20. +60-degree C, Electronic 4...20mA HART, Power Supply 20...253VAC/DC, 50-60HZ, Protection: IP66/67	20	NO		R	-
22	Vegamet 381, Type: met381.XX, Temperature: -20..6°C, Protection:IP20 / IP40, Order no: 000000/000, Serial no:42036183	20	NO		R	-
23	VEGA DIS12 by VEGA Type: DIS12.XBXX, Protection: IP66/IP67	2	NO		R	-
24	MiniMe Sensor by VEGA P/N:LU13 – 5001,	2	NO		R	-
25	VEGA EL 4 by VEGA Type: EL4X5VTKX , LENGTH 400mm	2	NO		R	-
26	PLICS Radio R62 by VEGA Temperature 40-80 degree, Output 9.6-48V, 24-42V, Frequency 932-928mHZ	5	NO		R	-
27	Level indicators for slaker house, Make VEGAMET 381, Signal 4-20mA	10	NO		R	-
28	Vegamet 381, Type: met381.XX, Temperature: -20..6°C, Protection:IP20 / IP40, Order no: 000000/000, Serial no:42036183	20	NO		R	-
	<b>ENDRESS &amp; HAUSER EQUIPMENT</b>					
29	Endress & Hauser Prosonic FDU Part No.: 80-RG2A	10	NO		R	-
30	Endress & Hauser FMU 90 Cover P3+Display Field housing PC Part No.: 52025699 Commodity Code: 39269097	10	NO		R	-
31	Endress & Hauser Level Transmitter Prosonic S FMU90 Part No.: FMU 90-R21CA213AA1A	10	NO		R	-
32	Endress & Hauser FDU91 Prosonic S Part No.: FDU91-RG2AA	10	NO		R	-
33	Endress & Hauser Prosonic T FMU Part No.: FMU 230E-AA31	10	NO		R	-
34	Prosonic level sensor, 4 bar/58psi (at20 ~C/ 68~F), -40~C (-40~F), 80~C (176~F)	30	NO		R	-
	<b>SIEMENS EQUIPMENT</b>					
35	Siemens level probes, Order no: 7ML51101De074AF1, Serial no: PBD/LD0606/77, Enclosure: 1P68 Type6, Cable Entry: M20x1.5, Am Temp:40* to +80°C, Power rating : 24VDC, Nom, 30VDC max,, 4-20mA	20	NO		R	-
	<b>MISCELLANEOUS</b>					
36	MOBREY ROSEMOUNT MEASUREMENT MSP900SH-AULTRASONIC LEVEL TRANSMITTER	15	NO		R	-
37	Level Switches for Chlorine plant, Model LS-7 Level switch, 20VA,120-240VAC	10	NO		R	-
38	Milltronics Siem Multi Range 200, Power rating , 100/115/200/230V +-15%, 15 VA, 50/60Hz, Operating temp:-20°C to 50°C	20	NO		R	-
	<b>PRESSURE TRANSMITTER</b>					

ANNEXURE FOR BIDDING PURPOSES



	<b>WIKA EQUIPMENT</b>				
39	Wika Pressure Transmitters & Pressure Gauge C/W Chemical Seal Range: 0-10Bar	30	NO		R -
40	Wika Pressure Transmitters LS-10 Part No.: 14067747	20	NO		R -
41	WIKA 0-6 BAR UPT-20 –ZZZ-KA-AA-BG360-GDS2Z-Z PART NO:14107319	15	NO		R -
42	WIKA 0-10 BAR UPT-20 –ZZZ-KA-AA-BG416-GDS2Z-Z PART NO:14104581	15	NO		R -
43	WIKA 0-16 BAR UPT-20 –ZZZ-KA-AA-BG416-GDS2Z-Z PART NO:14104581	15	NO		R -
44	WIKA UPT20 PRESSURE INDICATOR 0-16 BAR	15	NO		R -
45	Wika Pressure gauge alarm contact, Type cont 821.2,	10	NO		R -
	<b>IFM EQUIPMENT</b>				
46	IFM Pressure Transducer PA3023 PA-025-RBR14_A-ZVG	10	NO		R -
47	IFM Pressure Switch 10 bar Part No.: 7007	10	NO		R -
48	IFM Pressure Switch 25 bar PA3024	10	NO		R -
49	IFM PA3023 Pressure sensor 0-150Bar PA-025-RBR14-A-ZVG/US//V	15	NO		R -
50	IFM PN7007 Pressure sensor 0-10Bar	10	NO		R -
51	IFM Electronic, D-45127 Essen 20-30v	5	NO		R -
	<b>Barksdale Equipment</b>				R-
52	Barksdale Pressure Transmitter 5W2000 (10-15Bar) Part No.: 0428-127	20	NO		
53	Barksdale Pressure sensor 0-15Bar Part No.: 0428-127	20	NO		R -
	<b>SIEMENS</b>				
54	Siemens SITRANS P Pressure Transmitter Profibus PA 0 - 100Bar Part No.: MF4034-1EA00-1AB7-Z	10	NO		R -
55	Siemens SITRANS P Pressure Transmitter Profibus PA 0 - 16Bar Part No.: MF4033-1DA00-1AB6-Z	10	NO		R -
56	Pressure Transmitter (SIEMENS) Output HART@ 4-20Ma, Power supply: 10.5 – 45VDC Over ranging limits -1 – 32 Bar	15	NO		R -
57	Siemens Pressure Transmitter , D76181krishe, Measuring span 16 bar, Over range limit1-32	10	NO		R -
58	Seimens Transmitter for differential pressure, Rang 16mbar-16mbar	10	NO		R -
59	SIEMENS PRESSURE TRANSMITTER 0-10 BAR	50	NO		R -
60	SIEMENS PRESSURE TRANSMITTER 0-16 BAR	50	NO		R -

## ANNEXURE FOR BIDDING PURPOSES



61	SIEMENS 0-10 BAR 7MF1567-3CA-001GA1 PRESSURE TRANSMITTER	20	NO		R	-
62	Siemens Pressure Transmitter Sitrans P 7MF034-1EA00-1AB7-2	10	NO		R	-
	<b>ENDRESS &amp; HAUSER</b>					
63	Endress & Hauser iTemp PT100 - PA Converter Part No.: TMT84-1009/101	10	NO		R	-
64	Endress & Hauser Cerabar s TX PMP71-AND1U11GAAA	10	NO		R	-
65	Endress+ Hauser Serial Cerabar M, Oder no PMC51-37AO/O, Oder Code PMC51-A21JAPGCXJA	5	NO		R	-
	<b>ROSEMOUNT EQUIPMENT</b>					
66	Pressure Transmitter (ROSEMOUNT), Output HART@ 4-20Ma, Power supply: 10.5 – 45VDC	15	NO		R	-
	<b>FUJI EQUIPMENT</b>					
67	Pressure Transmitter (FUJI) Electronic Output 4...20mA HART, Power Supply 28VDC	15	NO		R	-
	<b>ASHKROFT EQUIPMENT</b>					
68	ASHKROFT ½" BOTTOM ENTRY 100MM DAIL 0-1600 KPA	45	NO		R	-
69	ASHKROFT ½" BOTTOM ENTRY 100MM DAIL 0-4000 KPA	45	NO		R	-
70	I.T.S.LIQUID LEVEL TRASMITTER TSS 15XLP 19040917mH20 17m	12	NO		R	-
71	I.T.S.LIQUID LEVEL TRASMITTER TSS 10XLP0-10,00 mh 190408 12m	12	NO		R	-
	<b>RHOMBERG EQUIPMENT</b>					
72	RHOMBERG 0-100 KPA ½" BSP	15	NO		R	-
73	RHOMBERG 0-250 KPA 1/2 " BSP	15	NO		R	-
74	RHOMBERG 0-600 KPA ½" BSP	15	NO		R	-
75	RHOMBERG 0-1000 KPA ½" BSP	15	NO		R	-
76	RHOMBERG 0-4000 KPA ½" BSP	15	NO		R	-
77	RHOMBERG 0-6000 KPA ½" BSP	15	NO		R	-
78	RHOMBERG 0-100 KPA ½" BSP	15	NO		R	-
	<b>MISCELLANEOUS</b>					
79	SA GAUGE 0-1600 KPA/16BAR PT1-16B	15	NO		R	-
80	SA GAUGE 0-1000KPA/10BAR PT1-10B	12	NO		R	-

## ANNEXURE FOR BIDDING PURPOSES



81	SENSUS 10BAR PART NUMBER:182056 PRESSURE SENSOR	30	NO		R	-
82	SENSUS 20 BAR PART NUMBER: 182077 PRESSURE SENSOR	30	NO		R	-
83	SENSUS 40 BAR PART NUMBER: 243900 PRESSURE SENSOR	30	NO		R	-
84	SENSUS REED SWITH: READ 01 IP68 WITHPLUGS	30	NO		R	-
85	SENSUS HRI-MEI B4/32ms/10L/DN40-125 EXTERNAL POWER SUPPLY	30	NO		R	-
86	Pressure Gauge, 2,5(63mm)x ¼ BSP, 0-1000kPa black	20	NO		R	-
87	Pressure Gauge Range 0-4000Kpa, 100mm Dial, ½ inch bottom entry female threaded It must have a chlorine compatible diaphragm	20	NO		R	-
88	Pressure Gauge Range: -500Kpa to 500Kpa, 100mm Dial, ½ inch bottom entry female threaded It must have a chlorine compatible diaphragm	20	NO		R	-
89	Chlorine Gauges Range: 0-600 Bar 100mm Dial, ½ inch bottom entry female threaded It must have a chlorine compatible diaphragm	20	NO		R	-
90	Instrotech 900 Transmitter 1707729	10	NO		R	-
91	Genspec GS4200 Pressure Transmitter 0-16Bar	20	NO		R	-
92	EMA Honeywell pressure switch, 0.5-6 bar max , Druck 16 bar, DCM 6	5	NO		R	-
93	ABB ADJUSTABLE AMING MOUNTING BRACKET A900	15	NO		R	-
94	ABB LLT100 LEVEL TRANSMITTER LAZER TRANSMITTER	15	NO		R	-
95	ABB LST 400YOS15NIP3AIH15C2M5	6	NO		R	-
96	Yokogawa Dp Transmitter , Model EX530A	10	NO		R	-
97	Gauges , Range 0-1000kpa, ½ 1nch male fitting, Glycerine filled, NIP	30	NO		R	-
98	Pressure Gauge C/W Chemical Seal Range: 0 – 1600kPa Dial Size: 100mm Stainless Steel inner Chemical Seal - Teflon Seal (Chlorine) ½" Entry	20	NO		R	-
99	Pressure Gauges Range 0-1600 Kpa, 100mm Dial, ½ inch bottom entry female threaded It must have a chlorine compatible diaphragm	20	NO		R	-
100	Pressure gauge Range: 0-1000 kpa, 100mm Dial, 1/2-inch male fitting diaphragm gauge, Glycerine filled bottom entry, NTP	20	NO		R	-
101	Pressure Gauge Range: 0-1600 kpa, 100mm Dial, 1/2-inch male fitting diaphragm gauge Glycerine filled bottom entry NTP	20	NO		R	-
102	Pressure Gauge Range: 0-4000 kpa, 100mm Dial, 1/2-inch male fitting diaphragm gauge, Glycerine filled bottom entry	20	NO		R	-
103	Pressure gauge Range: 0-2500kpa, 100mm Dial, 1/2-inch male fitting diaphragm gauge, Glycerine filled bottom entry, NTP	20	NO		R	-
104	Manocont Movement Pressure Gauge, All Stainless Steel, ½" BSP Bottom Connection. Range: 0-1000kPa, Fitted To 316L T-Piece, Complete With Transmitter & XWD6001 Chemical Seal, PTFE Coating Of Wetted Parts, For Chlorine Application – Including PTFE Protection Foil For Diaphragm	30	NO		R	-
105	Pressure Gauge -100 – 300kpa ½" 049529 PBBF105504.WB5BC01	10	NO		R	-
106	Pressure Gauge 0-1600kpa ½" PBBF10SS04WC3HC01	10	NO		R	-

## ANNEXURE FOR BIDDING PURPOSES



107	Pressure Gauge C/W Chemical Seal -100 – 300 kpa	10	NO		R	-
108	Pressure Gauge C/W Chemical Seal 0 – 4000 kpa	10	NO		R	-
109	Unite Electric Chemical Sealed Pressure Switch Part No.: H100-702	10	NO		R	-
110	Pressure Recorder - Model TRIDP	30	NO		R	-
111	WATSON MARLOW 520 REM 0-2 BAR 0-30 PSI ROTA	30	NO		R	-
112	WATSON MARLOW 520 REM 2-4 BAR 30-60 PSI ROTA	30	NO		R	-
113	WATSON MARLOW 520 REM 4-7 BAR 60-100 PSI ROTA	30	NO		R	-
114	Isolated Smart Transmitter Output 4- 20Ma, Range: 0_ 1600	2	NO		R	-
115	Pneumatic Equipment (AIR TAC) Pressure range 0-0.8 Mpa (0-8.0Ba), Temperature 5 – 60 degree C, Pressure 1.2Mpa (120ba), Operating Angle +-15 degree, Direction change:4mm(100,200Serialies) or 5mm(300 Serial)	5	NO		R	-
	<b>VEGA EQUIPMENT</b>					
116	VegaBAR52 0-25Bar Pressure TX Part No.: 1751818/001	10	NO		R	-
117	VEGA BAR 82 2601950/003 0-60 BAR LEVPRESSURE TRANSMITTER	20	NO		R	-
118	VEGAPULS C31 Radar Level Part No.: RA-222 229	50	NO		R	-
119	VEGAPULS C21 Part No.: RA-222 22M	50	NO		R	-
120	VEGAMET 841	15	NO		R	-
121	VEGAMET 842	15	NO		R	-
122	VEGAMET 381	15	NO		R	-
123	VEGA PULSE WL 61 RADA LEVEL 15M PART NO: 2601950/1	30	NO		R	-
124	VEGA BAR 82 2601950/003 0-60 BAR LEVPRESSURE TRANSMITTER	20	NO		R	-
125	VEGAPLUS 52 by VEGA Range 0 -+2.5 Bar (0...+250kPa), Process Pressure -1...+50kPa (100...+5000kPa), Temperature -40...+120-degree C, Electronic 4...20mA HART Power Supply 12...36V, Protection: IP66/67	20	NO		R	-
126	VEGAPLUS 64 by VEGA Range 0 ...+25 Bar (0...+2500kPa), Process Pressure -1...+60kPa (-100...+6000kPa), Temperature -20...+120 degree C, Electronic 4...20mA HART, Power Supply 12...36V, Protection: IP66/67	20	NO		R	-
127	VEGAPLUS 61 by VEGA Range 0 -+2.5 Bar (0. +250kPa), Process Pressure -1...2bar , 100...+200kPa), Electronic 4...20mA HART, Power Supply 9.6...36VDC, Protection: IP66/67	20	NO		R	-
128	VEGAPLUS 52 by VEGA Range 0 -+2.5 Bar (0...+250kPa), Process Pressure -1...+50kPa (100...+5000kPa), Temperature -40...+120-degree C, Electronic 4...20mA HART Power Supply 12...36V, Protection: IP66/67	20	NO		R	-
129	VEGAPLUS 64 by VEGA Range 0 ...+25 Bar (0...+2500kPa), Process Pressure -1...+60kPa (-100...+6000kPa), Temperature -20...+120 degree C, Electronic 4...20mA HART, Power Supply 12...36V, Protection: IP66/67	20	NO		R	-
130	VEGAPLUS 61 by VEGA Range 0 -+2.5 Bar (0. +250kPa), Process Pressure -1...2bar , 100...+200kPa), Electronic 4...20mA HART, Power Supply 9.6...36VDC, Protection: IP66/67	20	NO		R	-
131	VEGAPLUS 61 by VEGA Range 0.25...5m, Process Pressure -20...+200kPa, (-2...2Bar) Temperature -40. +80-degree C, Electronic 4...20mA HART, Power Supply 12...36V Protection: IP66/67	20	NO		R	-

# ANNEXURE FOR BIDDING PURPOSES



132	VEGAMET 391 by VEGA Ambient Temperature -20. +60-degree C, Electronic 4...20mA HART, Power Supply 20...253VAC/DC, 50-60HZ, Protection: IP66/67	20	NO		R	-
133	VEGA DIS12 by VEGA Type: DIS12.XBXX, Protection: IP66/IP67	2	NO		R	-
134	MiniMe Sensor by VEGA P/N:LU13 – 5001,	2	NO		R	-
135	VEGA EL 4 by VEGA Type: EL4X5VTKX , LENGTH 400mm	2	NO		R	-
136	VEGABAR 52 by VEGA Type BR52.XXGG10HKMAS, Range 0 -0.4 Bar (0. +40kPa), Temperature -40. +120-degree C, Electronic 4...20mA HART, Power Supply 12...36V Protection: IP66/67	10	NO		R	-
137	VEGAPLUS 65 by VEGA Range 1-3 Bar (-100 -300kPa), Process Pressure -1...+50kPa Process Temperature -40...+130-degree C, Electronic 4...20Ma HART, Power Supply 12...36V, Protection: IP66/67	10	NO		R	-
138	VEGABAR 52 by VEGA Type BR52.XXGG10HKMAS, Range 0 -0.4 Bar (0. +40kPa), Temperature -40. +120-degree C, Electronic 4...20mA HART, Power Supply 12...36V Protection: IP66/67	10	NO		R	-
139	VEGAPLUS 65 by VEGA Range 1-3 Bar (-100 -300kPa), Process Pressure -1...+50kPa Process Temperature -40...+130-degree C, Electronic 4...20Ma HART, Power Supply 12...36V, Protection: IP66/67	10	NO		R	-
SUB-TOTAL					R	-

Total for all Deliverables	#REF!
Disbursements at 12% of Total for all Deliverables	#REF!
Transport Costs at 8%	#REF!
SUBTOTAL before VAT	#REF!
VAT (if applicable)	#REF!
FORM OF OFFER (for commercial evaluation purposes)	#REF!

**NOTE : Goods/services will be called-off as and when required by Rand Water after the award of the contract. Rand Water reserves the right not to acquire all the estimated quantities at once. Suppliers are therefore advised not to procure goods/services upfront and only procure upon the instruction of Rand Water.**