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CENTRAL ORDNANCE DEPOT – RAWALPINDI

Central Ordnance Depot
Rawalpindi
Tel : GHQ 34729
17 Normal / LP
21 Apr 2022

SUBJECT: INVITATION TO TENDER AND GENERAL INSTRUCTIONS 17 NORMAL 2022

1. DATE AND TIME OF CLOSING OF TENDER IS 06 May 2022 UPTO 1030 HOURS.
2. DATE AND TIME OF OPENING OF TENDER IS 06 May 2022 AT 1100 HOURS AT THE PREMISES OF CENTRAL ORDNANCE DEPOT RAWALPINDI.
3. RATES ARE INVITED FOR SUPPLY OF ITEMS MENTIONED AT ANX "A" TO THIS TENDER INQUIRY.
4. TERMS AND CONDITIONS GOVERNING BIDDING/PURCHASES AND GENERAL INSTRUCTIONS FOR BIDDERS:-

- a. THE PURCHASER CAN WAIVE OFF ANY OF THE CONDITIONS STIPULATED IN THIS TENDER INQUIRY AND RESERVES THE RIGHT TO ACCEPT OR REJECT THERETO.
- b. BIDDERS SHOULD NOTE THAT DECISION OF COMMANDANT CENTRAL ORDNANCE DEPOT RAWALPINDI WILL BE FINAL IN RESPECT OF ACCEPTANCE / REJECTION OF THE OFFERS.
- c. ALL SAMPLES AND SUPPLIES WILL BE SUBJECT TO TESTS AND INSPECTIONS EITHER BY CONCERNED INSPECTORATES OR A BOARD OF OFFICERS CONSTITUTED FOR THE PURPOSE AND ANY COST INCURRED ON TESTS / INSPECTIONS AND STORES CONSUMED IN THE SAME WILL BE BORNE BY SUPPLIERS. DEPOT MAY TEST/INSPECT SAMPLES BEFORE PLACING OF PURCHASE ORDERS.
- d. SUCCESSFUL BIDDERS WILL HAVE TO COMPLETE THE SUPPLIES WITHIN PERIOD AS SPECIFIED IN THE PURCHASE ORDERS, FAILING WHICH APPROPRIATE PENALTY AS DECIDED BY COMMANDANT CENTRAL ORDNANCE DEPOT RAWALPINDI WILL BE IMPOSED AND NECESSARY / APPROPRIATE DISCIPLINARY ACTION WILL ALSO BE TAKEN.
- e. DURING WARRANTY PERIOD (IF STORES) SUPPLIED IS/ARE BACKED BY WARRANTY) IF A FAULTS OCCURS IN SUPPLIED STORES THEN SUPPLIER WILL BE RESPONSIBLE TO EITHER RECTIFY THE FAULTS COMMUNICATED OR GET THE FAULTY PARTS REPLACED WITH IN 7 (SEVEN) DAYS OF RECEIPT OF INFORMATION IN THIS REGARD FROM THE PURCHASER AT HIS SPECIFIED PLACES WHICH CAN BE OTHER THAN THE PLACE OF DELIVERY OF STORES. IN CASE SUPPLIER FAILS TO RECTIFY THE FAULTS OR REPLACE THE FAULTY PARTS IN A SPECIFIED TIME THAN PURCHASER WILL HAVE THE RIGHT TO TAKE DISCIPLINARY ACTION AGAINST THE SUPPLIER AND ALSO IMPOSE PENALTY IF CONSIDERED NECESSARY/ APPROPRIATE.
- f. DURING WARRANTY PERIOD IT WILL BE THE RESPONSIBILITY OF THE SUPPLIER TO CARRY OUT PERIODIC MAINTENANCE OF SUPPLIED

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STORES AS PRESCRIBED BY THE MANUFACTURERS FREE OF COST AT PURCHASER'S SPECIFIED PLACES WHICH CAN BE OTHER THAN THE PLACE OF DELIVERY OF STORES.

- g. SAMPLE AND STORE OFFERED WOULD BE BRAND NEW, UNUSED, AS PER APPROVED SPECIFICATIONS, DRAWING AND SAMPLES WHERE APPLICABLE.
- h. IN CASE OF AN ITEM HAS NO SPECIFICATIONS, DRAWING OR APPROVED SAMPLE THEN A BOARD OF OFFICERS APPOINTED FOR THE PURPOSE
- i.
- j.
- k. WILL DECIDE ITS ACCEPTABLE STANDARDS.
- l. MAKE / MODEL / BRAND AND COUNTRY OF ORIGIN OF STORES MUST BE MENTIONED WHERE APPLICABLE.
- m. MANUFACTURER CERTIFICATE OF BRANDED ITEMS MUST BE PROVIDED.
- n. PRICES / RATES WILL BE QUOTED ON DELIVERY BASIS AT LOCATIONS AS MENTIONED IN PARA 4 ABOVE.
- o. PRICES / RATES QUOTED MUST BE INCLUSIVE OF ALL APPLICABLE TAXES / DUTIES.
- p. PRICES / RATES QUOTED MUST BE AS PER ACCOUNTING UNIT.
- q. MORE THAN ANY MANUFACTURE/MODEL MAY ALSO BE QUOTED GIVING SEPARATE PRICE OF EACH MANUFACTURE/MODEL.
- r. PRICES/RATES WILL BE QUOTED IN PAKISTANI CURRENCY.
- s. PRICES/RATES QUOTED WILL BE APPLICABLE TO COMPLETE ZONE.
- t. PRICES / RATES QUOTED WILL BE VALID FOR SIX MONTHS FROM DATE OF OPENING OF TENDERS.
- u. BID SECURITY / PERFORMANCE GUARANTEE MAY BE ASKED, IF REQUIRED. SUCCESSFUL BIDDERS WILL HAVE TO SUPPLY STORES AS PER PRICES / RATES QUOTED FOR SIX MONTHS FROM DATE OF OPENING OF TENDER'S OR ELSE APPROPRIATE DISCIPLINARY ACTION WILL BE TAKEN AGAINST THE FIRM.
- v. DRAWING OF SAMPLES FOR TEST/INSPECTION FOR ACCEPTANCE OF STORES TO BE SUPPLIED AGAINST PURCHASE ORDERS FOR TEST / INSPECTION PROCESSES WILL ONLY COMMENCE WHEN COMPLETE / ORDERED QUANTITIES HAS BEEN SUPPLIED.
- w. PART DELIVERY / PART PAYMENT WILL NOT BE ACCEPTED / MADE.
- x. PAYMENT WILL BE MADE AFTER ACCEPTANCE OF ORDERED STORES.
- y. IF STORES ARE NOT DELIVERED WITHIN DELIVERY PERIOD, PENALTY WILL BE IMPOSED.
- z. ITEMS SHOULD BE PACKED PROPERLY AT THE TIME OF DELIVERY.

5. **SPECIAL INSTRUCTIONS.**

- a. AS FAR AS POSSIBLE PRICE(S) / RATE(S) MUST BE QUOTED AGAINST EACH ITEM, WHERE PRICES / RATES ARE NOT BEING QUOTED THIS SHOULD BE REFLECTED BY WORDS "NOT QUOTED".
- b. LIST OF STORE(S) (HARD COPY) WILL BE SUBMITTED DULY TYPED, (NOT HAND WRITTEN) SIGNED AND DULY STAMPED ON EACH PAPER OR ELSE OFFER WILL BE REJECTED.
- c. PRICES / RATES QUOTED MUST BE TYPED AND NOT HAND WRITTEN ON HARD COPY OR ELSE OFFER WILL BE REJECTED.
- d. QUOTED RATES ARE ONLY VALID ON FIRM'S LETTER HEAD.

- e. NO CHANGE SHOULD BE MADE IN SOFT COPY OF TENDER INQUIRY PROVIDED (LIST OF STORES AND BIDDERS SHOULD FILL PRICES) / RATES IN FRONT OF THE ITEMS WITHOUT DELETING / AMENDING ANY COLUMN / ROW AND WITHOUT DISTURBING THE SERIAL NUMBERS.
 - f. THE BID AGAINST THE ITEMS SHALL COMPRISE TWO SEPARATE ENVELOPES. EACH ENVELOPE SHALL CONTAIN SEPARATELY THE FINANCIAL PROPOSAL AND THE TECHNICAL PROPOSAL.
 - g. THE ENVELOPES SHALL BE MARKED AS "FINANCIAL PROPOSAL" AND "TECHNICAL PROPOSAL" IN BOLD AND LEGIBLE LETTERS TO AVOID CONFUSION. INITIALLY, ONLY THE ENVELOPE MARKED "TECHNICAL PROPOSAL" SHALL BE OPENED.
 - h. THE ENVELOPE MARKED AS "FINANCIAL PROPOSAL" SHALL BE OPENED AFTER ACCEPTANCE OF "TECHNICAL PROPOSAL".
6. **PURCHASER'S RIGHT.** PURCHASER DOES NOT PLEDGE TO ACCEPT THE LOWEST OR ANY TENDER AND RESERVES THE RIGHT OF ACCEPTING THE WHOLE OR ANY PART OF THE OFFER MADE.
7. **DELIVERY OF TENDER.** THE OFFER IS TO BE SUBMITTED AS PER PARA 5 OF THE TENDER INQUIRY.
8. **DATE AND TIME OF RECEIPT OF TENDER.** YOUR TENDER MUST REACH THIS DEPOT / DROPPED IN TENDER BOX PLACED AT FORT GATE COD RAWALPINDI BY TIME AND DATE AS SPECIFIED IN PARA 1 ABOVE. THIS OFFICE WILL NOT ACCEPT ANY EXCUSE OF DELAY OCCURRING IN POST. TENDERS RECEIVED AFTER THE APPOINTED / FIXED TIME WILL NOT BE ENTERTAINED. THE APPOINTED TIME WILL FALL ON NEXT WORKING DAY IN CASE OF CLOSED / FORCED HOLIDAY.


LIEUTENANT COLONEL
LOCAL PURCHASE OFFICER
(MUNEEB KHALID)

TENDER 17 NORMAL 2022 - COD RWP

Ser	Nomenclature	A/U	Rate	Remarks
Items required for ASC installations				
1.	Mob Motor Trolley	Nos		Sample of each are available in POL Depot Lahore. Firm's Rep can visit before quoting the rates
2.	Fire Fighting System	Nos		
3.	POL Flow Counting System	Nos		
4.	Radar TK Gauging	Nos		

(MOB MOTOR TROLLEY)**PART-I**

Ser	Item	Responsibility	Remarks
1.	Sponsoring Dte		
2.	Nomenclature / Title	Mob Trolley	
3.	Cat of needed eqpt	Engr Eqpt	
4.	<u>Op Need / Req</u>		
	a. Filling in decanting from bulk to bulk, bulk to pack, pack to bulk and pack to pack.		
5.	<u>Main Task / Req / Obj</u>		
	a. To acct as addn pump in case of mal func of main pump of any tank in a POL dep		
	b. To tfr POL from Bzr to pack stock in fwd area		
	c. Where req pack stock to anther PM (in case of leakage)		
6.	<u>Essential parameters</u>		
	a. Should toed with 1.5 ton or 5 ton		
	b. Should ply its 70 kms speed when toed		
	c. Should not req priming of pipe line for filling/ decanting		
7.	<u>Preferable Parameters</u>		
	a. Should be easy to maint and repair		
	b. Should meet safety precautions		

(MOB MOTOR TROLLEY)

PART-II

Ser	Parameter				Remarks
1.	Design Characteristics				
a.	Gen Description				
b.	<u>Physical Aspects of Mob Trolley:-</u>				
c.	<u>Tech / Performance Aspects</u>				
(1)	Vane Pump		Cap: 350 to 400 LPM, Operating Press: 6 Bar RPM: 630 to 700RPM, Operating Principal: Sliding vane Inlet 3", Outlet 2 ½ " Couple Driven, Pump casing: Cast Iron Rotor: Cast Iron, Vane: Fortron Shaft: AISI 303 steel Type: Reciprocal moving with 1 rotor-6 vanes Make: IPT Turkey or other well-known Europe/ USA Frim Origin: Europe/ USA		
(2)	Motor		Motor: 10 HP, 750-900 RPM Made in Weg USA other well-known Europe/ USA Frim		
(3)	Pipe Line		Inlet: 2 ½ ", HDP Flexible (Imported) Outlet: 2" HDP Flexible (Imported) Hose Pipe Real: Cap 50 ft, pipe for 2"		
(4)	Body		Chassis: MS C Chanel, Tyre: 2 x tyre (size 13 General Pakistan) Wheels: Solid Rubber with towing eye Accessories: Extinguisher, Tool kit, Tool Box		
(5)	Electronic Panel		Connection: 3 Phase, 2 x breaker 16-18 AMP 1 x Electronic Kit		
d.	<u>Compatibility Aspects</u>				
(1)	Cptr Eqpt		Nil		
(2)	Integration – Held Inventory		Nil		
e.	<u>Environmental Aspects</u>				
(1)	<u>Temp Zone / Area</u>			Max	Min
	(a)	Northern Zone	-	-	All aval temp across the country
	(b)	Southern Zone	-	-	
	(c)	Gen Cat	-	-	
f.	<u>Spec Ops Conds</u>				
	Dusty	Humid	Rainy	Snow	All weather
g.	<u>Logistic Aspects</u>				

RESTD

Ser	Parameter			Remarks	
	(1)	Repair & Maint			
		(a)	Fd	Wksp	
		(b)	Base	"	
		(c)	Req of TOT	Nil	
	(2)	Spec Storage Conds			
		(a)	Fd	Should be preferably kept under a shed	
		(b)	Dep		
		(c)	Misc		
	(3)	Spec Tn Req		Toed with 1.5 ton or above veh	
	h.	Spec Emp Needs		1 x POL Qualified Op	
	i.	Aux Eqpt / Assy / Cap/ items		Nil	
	j.	Fire Hazard / Risk			
	k.	Low	Medium	High	Extremely Volatile High

MOB MOTOR TROLLEY



(FIRE FIGHTING SYS)
PART-I

Ser	Item	Responsibility	Remarks
1.	Sponsoring Dte		
2.	Nomenclature / Title	Fire Fighting Sys	
3.	Cat of needed eqpt	Engr Eqpt / Civ work	
4.	Op Need / Req		
a.	To able to carry out firefighting from distance 60 ft (nearest bund wall) and should be able to cover complete POL tank with foam		
b.	Should be able to cover tank surface with foam within max 3 mins after ops of pump		
5.	Main Task / Req / Obj		
a.	To control fuel fire hazard within min time		
b.	To avoid spreading of fire to other fuel tanks		
c.	POL tank cooling		
d.	Should be able to cover an area of 150 ft all around (360 degree) from the fire monitor		
e.	Should be able to mov 100 ft from static monitor with the help of auto monitor incl foam towards fire thus giving 250 ft radius all around from static monitor for any fire		
f.	Should be able to cover any fire incl fuel tank / PM / elec (after disconnection of elec) and wood / material fire		
6.	Essential parameters		
a.	Should be able to cover a distance of 150 ft from static monitor and 250 ft with auto mob monitor		
7.	Preferable Parameters		
a.	Should be easy to maint and repair		
b.	Should meet safety precautions		

(FIRE FIGHTING SYS)**PART-II**

Ser	Parameter	Remarks
1.	Design Characteristics	
a.	Gen Description	
b.	Physical Aspects of Fire Fighting Sys	
c.	Tech / Performance Aspects	
(1)	Fire Pump Set	(1x Elec + 1 x Diesel + 1 x Jockey) complete skid, horizontal end suction type, capacity 500 GPM @ 12 Bar. Controller star Delta & Standard Accessories. Excel series, Star Delta & with only discharge manifold. Standard approved. Vertical multistage type centrifugal Jockey pump closed coupled to elec motor: Elec Motor: 60 HP 2900 RPM. Jockey Elec motor: 3HP 380/415-V 2900rpm Engine: 60 HP – 2900 rpm Automatic / Manual Elec control panel Make: Well-known Europe/ USA Frim Origin: Europe/ USA
(2)	Pipe Line	High Density Polyethylene Pipe 4 inch, Wall Thickness: 110 mm Working Pressure : 10 Bar Test Pressure: 14 Bar Standard: ISO 4427 or DIN 8074/8075 Make: Well-known Europe/ USA Frim Origin: Europe/ USA
(3)	HDPE Fittings	TEE, Elbow, Cap, Adopter, Cross. Wall Thickness: 110 mm Working Pressure : 16 Bar Test Pressure: 20 Bar Standard: ISO 4427 or DIN 8074/8075
(4)	MS Pipe	Mild steel seamless pipe sch 40 Dia 6, 4 and 2 ½ inch Pipe wall Thickness: 6 mm Working Pressure : 16 Bar Test Pressure: 20 Bar Standard: ASME/ANSI B36.10/19. Make: Well-known Europe/ USA Frim Origin: Europe/ USA
(5)	Fire Hydrant	Two way pillar Hydrant for monitor body material: MS – Seamless sch-40 Inlet: 150 mm Flange Outlet: 02 x 2 ½ " control valve with female

RESTD

Ser	Parameter	Remarks
		BS Instantaneous BS 336 cap and chain. Working Pressure: 16 Bar Test Pressure: 20 Bar Colour: Red Make: Well-known Europe/ USA Frim Origin: Europe/ USA
(6)	Fire Monitor	Body material: 100 type 304 stainless steel construction Inlet: 6" Flange, Outlet, 2 1/2" Male BAT Flow: 750 GPM and 2 1/2" waterway type 360 degree horizontal and 120 degree vertical travel Colour: Red Make: Well-known Europe/ USA Frim Origin: Europe/ USA
(7)	Foam Nozzle/ Branch Pipe	Inlet: 2" Flow: @ 8 Br 2000 LPM Max service pressure: 175 PSI (12 Bar) Material Aluminium or S.S Flow: 400-600GPM (1500-2270LPM) Pick-Up tube: 1 1/4" clear PVC tube with SS dip tube - 3.0 mtrs long with 1 1/4" BSP
(8)	Foam Concentrate	Aqueous Film Forming Foam (AFFF) 3% Standard: EN 1568 Temp: +50C, -15C Shelf Life: 30 yrs Packing (25, 100,200 ltrs)
(9)	Mob Foam Unit	Foam tank: thermoplastic coated steel Tank cap: 140 ltrs Chassis: thermoplastic coated steel Wheels: Solid Rubber
(10)	Ground Monitor	Type: water come foam Monitor Material: SS-304 Pressure: 7-Bar Min Through range: 45 Mtr (150 ft)
(11)	Auto Foam Responder	Auto (Motor Cycle cap): 150CC Engine Type: 4 stroke OHV Single Cylinder cold by air Foam tank: Stainless steel -304. Tank cap: 500 ltrs Chassis: Mild steel Monitor: Inbuilt with tank Accessories: Fire hose box, Hotter, Flasher, Extinguisher, Tool kit, Branch pipe, hood Make: Well-known Europe/ USA Frim Origin: Europe/ USA
d.	Compatibility Aspects	
(1)	Cptr Eqpt	Nil

Ser	Parameter				Remarks		
	(2)	Integration – Held Inventory			Nil		
e.	Environmental Aspects						
(1)	<u>Temp Zone / Area</u>						
			Max	Min			
	(a)	Northern Zone	-	-	All aval temp across the country		
	(b)	Southern Zone	-	-			
	(c)	Gen Cat	-	-			
f.	<u>Spec Ops Conds</u>						
	Dusty	Humid	Rainy	Snow	All weather		
g.	<u>Logistic Aspects</u>						
(1)	<u>Repair & Maint</u>						
	(a)	Fd			Nil		
	(b)	Base			MES		
	(c)	Req of TOT			Nil		
(2)	<u>Spec Storage Conds</u>						
	(a)	Fd			Used in dep only		
	(b)	Dep					
	(c)	Misc					
(3)	<u>Spec Tn Req</u>				Nil		
h.	<u>Spec Emp Needs</u>				12 x Fireman employed as per To&E		
i.	<u>Aux Eqpt / Assy / Cap/ items</u>				Nil		
j.	<u>Fire Hazard / Risk</u>						
	Low	Medium	High		Extremely Volatile	Low	

(FLOW METER)
PART-I

Ser	Item	Responsibility	Remarks
1.	Sponsoring Dte		
2.	Nomenclature / Title	Flow Meter	
3.	Cat of needed eqpt	Engr Eqpt	
4.	<u>Op Need / Req</u>		
	a. To able to acct any qty passing through pipe line and passed info to PLC for record		
5.	<u>Main Task / Req / Obj</u>		
	a. To have a check on any filling / decanting from POL tank		
	b. To supplement RTG sys in accurate calc of POL product		
	c. To minimize chances of theft / pilferage		
6.	<u>Essential parameters</u>		
	a. Should be able to acct POL product passing through		
7.	<u>Preferable Parameters</u>		
	a. Should be easy to maint and repair		
	b. Should meet safety precautions		

(FLOW METER)
PART-II

Ser	Parameter				Remarks
1.	Design Characteristics				
	a.	Gen Description			
	b.	Physical Aspects of Flow Mtr			
	c.	<u>Tech / Performance Aspects</u>			
	(1)	Flow Meter			<ul style="list-style-type: none">Type: Flow MeterMake: European/ USA/ JapanInput power: 220V AC, 50HzFlow Range: 1000 LPMLine size: 4"Body: Stainless steelApplication: Diesel, HOBC, PMGAccuracy: $\pm 0.5\%$Temp: Standard (-60 to 260 deg F)Pressure: 10 BarSignal Output: 4-20mA, Modbus RS485, Plus
	(2)	Area Classification			<ul style="list-style-type: none">Explosion Proof FM Class 1 Div 1Make Origin: Rose Mount / Tektrol or other well-known Europe/ USA FirmOrigin: Europe/ USA
	d.	<u>Compatibility Aspects</u>			
	(1)	Cptr Eqpt			Nil
	(2)	Integration – Held Inventory			Nil
	e.	<u>Environmental Aspects</u>			
(1)	<u>Temp Zone / Area</u>				
			Max	Min	
	(a)	Northern Zone		- -	
	(b)	Southern Zone		- -	
	(c)	Gen Cat		- -	
f.	<u>Spec Ops Conds</u>				
	Dusty	Humid	Rainy	Snow	
g.	<u>Logistic Aspects</u>			All weather	
(1)	<u>Repair & Maint</u>				
	(a)	Fd		Nil	
	(b)	Base		MES	
	(c)	Req of TOT		Nil	
	(2)	<u>Spec Storage Conds</u>			
	(a)	Fd		Used in dep only	

Ser	Parameter				Remarks	
			(b)	Dep		
			(c)	Misc		
		(3)	Spec Tn Req			
	h.	Spec Emp Needs				Nil
	i.	Aux Eqpt / Assy / Cap/ Items				Nil
j.	Fire Hazard / Risk					
		Low	Medium	High	Extremely Volatile	Medium

FLOW MTR



(RADAR TANK GAUGING SYS (RTG))**PART-I**

Ser	Item	Responsibility	Remarks
1.	Sponsoring Dte		
2.	Nomenclature / Title	Radar Tank Gauging (RTG)	
3.	Cat of needed eqpt	Engr Eqpt	
4.	<u>Op Need / Req</u>		
	a. Real time fuel lvl and temp monitoring		
	b. Daily/ weekly/ monthly consumption reports		
	c. Filling and decanting record / monitoring		
	d. Safety of assets by monitoring temp and lvl in tanks		
5.	<u>Main Task / Req / Obj</u>		
	a. To monitor volume of a tank and give real time measurement of fuel incl temp and any addn / subtraction.		
6.	<u>Essential Parameters (RTG)</u>		
	a. Accuracy ± 2 mm		
	b. Range 30 mtrs		
	c. Protection IP 68 explosion proof		
	d. Working temp 55 degree centigrade		
7.	<u>Essential Parameters (Temp Transmitter)</u>		
	a. Accuracy 0.1degree FS		
	b. Protection IP 66 water proof		
	c. Temp range -44 degree centigrade to 80 degree centigrade		
8.	<u>Preferable Parameters</u>		
	a. Should be easy to maint and repair		
	b. Should meet safety precautions		

(RADAR TANK GAUGING (RTG))

PART-II

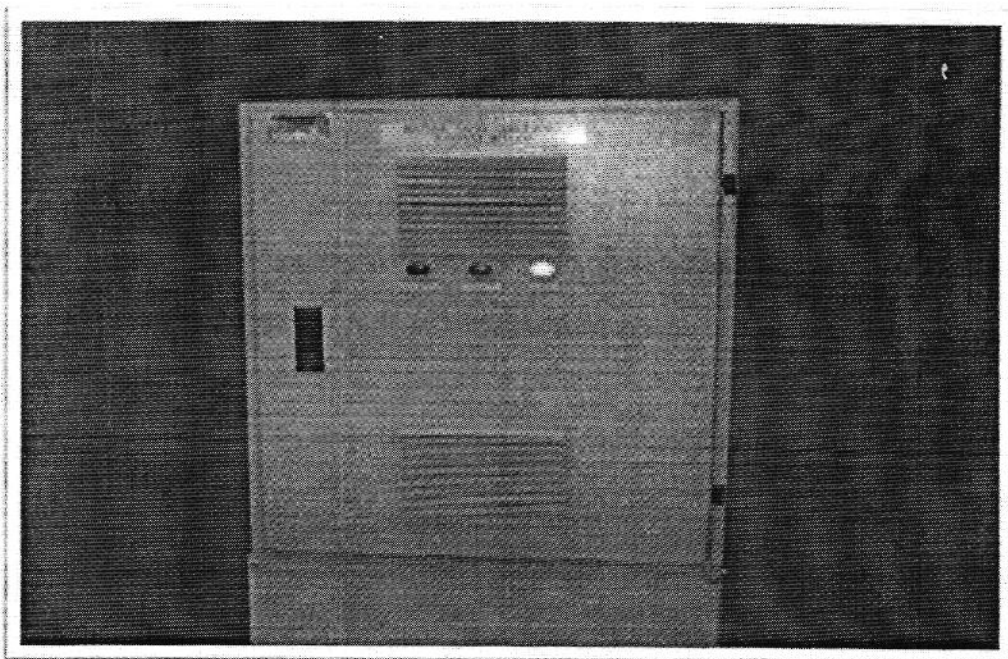
Ser	Parameter	Remarks
1.	Design Characteristics	
a.	Gen Description	
b.	Physical Aspects of Radar Tank Gauging	
c.	Tech / Performance Aspects	
(1)	Non Contacting Radar	<ul style="list-style-type: none">• Type: Radar Non-contact / guided wave• Operating frequency: 26GHz, for non-contact / 6 GHz for GWR• Input Power: 11 to 36 VDC, 2 wire Loop powered• Measuring range: 30 mtrs• Application: Diesel, HOBC & PMG• Temp range: Max upto 150 degree C)• Signal output: 4-20 mA w/Hart w/SIL 2 Hardware• User Interface: Digital display and key pad• Mounting: Integral• Accuracy: +/- 3mm• Repeatability: +/- 0.1 (3 or 0.05% of tank height (whichever is greater)• Response time: <2 seconds (configuration dependent)• Warm Up time: <30 seconds• Enclosure: Cast Aluminium• Electrical Entry: Two (2) M20 x 1.5• Area classification: Explosion proof FM Class 1 Div 1• Adopter Nut Material: 316/316L SS (C/S flange)• Process Connection: 4" 150# ANSI RF, 316/ 316L SS w/Carbon Steel flange• Nozzle Extension: None• Normal rating: 285 psig (19.7 barg) @70degree F (20 degree C)• Rating @ max temp: 230 psig (15.9 bang) @ 265 degree F(129 degree C)• Dielectric Range: 1.7 to 100)• Span Limits: 0.5 ft (0.15m) to 130 ft (39.62m)• Span Limits Based on: Dielectric =80.0, Turbulence= None• Make: Rose Mount 5408 or other well-known Europe/ USA Frim• Origin: Europe/ USA
(2)	Multipoint Averaging Temp	<ul style="list-style-type: none">• Type: ATEX II 2G Ex db

Ser	Parameter		Remarks
		Transmitter	<ul style="list-style-type: none"> • T6, TI Gb certified • Flexible multilevel sensor type 3 x Pt100-3 wire sensors with anchor weight and welded flange. With 3 transmitters • Junction box material: Aluminium • Size connection box: To suit req transmitter • Cable entry: M20 x 1.5 (w/o gland) • Extension: Nipple • Extension Length: Approx 200 mm • Extension material: SS316 • Construction: Flexible convoluted gas-tight SS tube • Length LX: 700mm • Diameter: 22mm • Material: SS316 • Process connection: 4" 150# RF • Material flange: SS316 • Type sensor: Pt100-3wire • Accuracy sensor: EN60751 class B • Anchor weight: 4 kg (265 x45mm) • Input: 1x Pt100-3 wire, Hart7 • Output: 4-20mA • Power supply: 8-30 VDC loop powered • Range: 0 to 150 deg C • Make: Rose Mount or other well-known Europe/ USA Firm • Origin: Europe/ USA
	(3)	PLC	<ul style="list-style-type: none"> • Inventory management sys should be capable of retrieving data from instruments, Radar lvl transmitters, temp transmitters, flow mtrs and any digital IOs via programmable controller • CPU of inventory management should be latest version • Sys should be capable for future expendability and addn • Data should be displayed on a dashboard and logged in excel/ csv. Format. On PC sys. Different page for HMI display should be made for data display, schematic of ops. • At least two yrs data history is req so that daily, weekly, monthly, or yearly reports could be extracted via printer. • Sys should be capable to incorporate 35 analog inputs and 10 DI/10 DO. • Hardwired sig from instruments to be incorporate in inventory management sys, then through TCP /

Ser	Parameter			Remarks
				<p>IP protocol this data will be accessed in PC sys with installed licensed inventory management/ Data logging software display and store data for further use.</p> <ul style="list-style-type: none"> • Inventory management sys software will be licensed version • Software should be user friendly and adv diagnostic features • Inventory management software should be capable of incorporating all these IOs with 20% extra in no of soft tags must be accordingly. • 60 inch non android LCD should be incorporated for remote display • PC sys for inventory software should be min specifications, as Core I7, Hard1TB, RAM 16GB, with 24 inch LCD incl • Prewired control panel incorporating with complete hardware and programmable logic controller should be installed in it. • Supply of all instrument cables will be in contractor scope. • Any kind of mechanical work, cutting, welding is req will be in contractor scope of supply. • Trenching, refilling for instrument as well as control cables will be in contractor scope of supply. • Installation, testing and commissioning will be in contractor scope of supply • Make: Rose Mount / Siemens or other well-known Europe/ USA Frim • Country of Origin: Europe / USA
	(4)	Wire		<ul style="list-style-type: none"> • Wire will be used 1.5 mm2 x 1 pair, CU/PVC/OS/PVC/SWA/PVC, shielded, Armoured instrument cable • Make: Well-known Europe/ USA Frim • Country of Origin: Europe / USA
	(5)	Software		<ul style="list-style-type: none"> • SCADA (Siemens, Germany)
d. Compatibility Aspects				
	(1)	Cptr Eqpt		Nil
	(2)	Integration – Held Inventory		Nil
e. Environmental Aspects				
(1)	Temp Zone / Area			
		Max	Min	
	(a)	Northern Zone	-	-
				All aval temp across the country

Ser	Parameter				Remarks	
		(b)	Southern Zone	-	-	
		(c)	Gen Cat	-	-	
	f.	Spec Ops Conds				
		Dusty	Humid	Rainy	Snow	All weather
	g.	Logistic Aspects				
		(1)	Repair & Maint			
		(a)	Fd	Nil		
		(b)	Base	MES		
		(c)	Req of TOT	Nil		
		(2)	Spec Storage Conds			
		(a)	Fd	Used in dep only		
		(b)	Dep			
		(c)	Misc			
		(3)	Spec Tn Req			Nil
	h.	Spec Emp Needs			1 x UDC	
	i.	Aux Eqpt / Assy / Cap/ Items			Nil	
	j.	Fire Hazard / Risk				
		Low	Medium	High	Extremely Volatile	Medium

TK GAUGING SYS



CERTIFICATE

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Info: Creative Junction News Agency Pvt Ltd

Subj: Advertisement

Attached tender notice is forwarded herewith for publish in English and Urdu Newspaper by **21 Apr 2022** please.

Central Ordnance Depot
Rawalpindi
Tel: GHQ: 34729
17 Normal/LP dated 21 Apr 2022


Lieutenant Colonel
Local Purchase Officer
(Muneeb Khalid)

ٹینڈر نوٹس

سنٹرل آرڈیننس ڈپوراؤلپنڈی کی تمام رجسٹرڈ فرموں سے متفرق سٹورز کی خریداری کیلئے
سر بمہر ٹینڈر مطلوب ہے۔ سٹور کی تفصیل پیپرا کی ویب سائٹ پر موجود ہے۔ ٹینڈر کھلنے کی
تاریخ مورخہ 6 مئی 2022 صبح 11:00 تک ہے۔ ٹینڈر 6 مئی 2022 صبح 1030
بجے تک جمع کروائے جاسکتے ہیں۔

لوکل پریچیز آفیسر / سنٹرل آرڈیننس ڈپوراؤلپنڈی،

فون نمبر 34729-561

موبائل نمبر 03215314791

Central Ordnance Depot
Rawalpindi
Tel: 34729
17 Normal/LP dated 21 Apr 2022

 Lieutenant Colonel
Local Purchase Officer
(Muneeb Khalid)

TENDER NOTICE

1. Central Ordnance Depot (COD) Rawalpindi invites sealed bid from registered Firms with this Depot for supply of misc stores for which details are available on PPRA website.
2. Tender will open at **1100 hrs** on **06 May 2022**.
3. Tender deposit before at **1030 hrs** on **06 May 2022**.

Contact:

Local Purchase Officer

Central Ordnance Depot Rawalpindi

Contact Mob No: **0321-5314791**.

Phone No: **561-34729**

Central Ordnance Depot
Rawalpindi
Tel: 34729
17 Normal/LP dated 21 Apr 2022


Lieutenant Colonel
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(Muneeb Khalid)