

Appendix I: TECHNICAL SPECIFICATIONS

INVITATION TO BID / TENDER No: 2019/FAAFG/FAAFG/101555

VENDORS MUST INDICATE COMPLIANCE OF THE GOODS OFFERED WITH THE FOLLOWING TECHNICAL SPECIFICATIONS.

-			SPECIFICATIONS	TECHNICAL SPECIFICATIONS OFFERED PLEASE USE THE SPACES BELOW TO SPECIFY THE EQUIPMENT BEING OFFERED FOR THE OFFER TO BE VALID
Item	Name: Laser Leveller/	Laser Leve	elling	Unit
Descri	iption and purpose of the ite	m: In survey	ing and construction, the laser level is	Total quantity required
a cont	rol tool consisting of a laser	beam project	or that can be affived to a twined. The	Total quantity offered
tool is	i levelled according to the a	ccuracy of the	he device and projects a fixed red or	Make/brand and model of
green	beam about the horizontal a	nd/or vertica	axis. A laser-controlled land levelling	Item
Laser	transmitter, 3-Laser Receiv	ve major con er, 4-Control	nnonents: 1-Drag Scranner/Rucket 2	Name and address of the manufacturer of Item
1.0	Technical Specifications	: General		
1.1	Wavelength		er Diode) visible	
1.2	Laser Output	2.4mW		
1.3	Laser Class	CDRH (FDA) Class IIIa, IEC Class 3R	
1.4	Automatic Correction Range	±5°		
1.5	Accuracy	±10" (1m	m/20m)	
1.6	Manual Slope Settable range	surface). T decreased	the instrument is installed on the 0° he slope range is increased or according to the tilt of the surface on instrument is installed	
1.7	Rotation Speed	600 r.p.m	and different 13 Historied	
1.8	Range		Approx. 2m to 800m (When using LS-	
1.9	Power Supply	4 x D size MH batter	dry cell batteries (alkaline)*1or Ni- y pack BT-74Q (7000mAh)	
1.10	Charging Time	Approx. 1	3 hours (Using with AD-15)	·





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1.11	mangane	100 hours (Using with alkaline se dry battery Approx. 60 hours (Using 4H battery pack BT-74Q
1.12	Ingress Protection IP66	mi outory pack bi-74Q
1.13	Operating Temperature -20°C to +.	50°C (-4°F to +122°F)
1.14		60°C (-22°F to +144°F)
1.15		6(W)x217(H)mm (7.0 x 7.7 x 8.5 in)
1.16	Weight 2.4kg [5.3	lbs] (Including dry cell 2.6kg [5.7 lbs] (Including BT-74Q)
1.17	Beam detection window 50mm (2.0 in)
1.18	precision: ±	on: ±1mm (±0.04 in)/Normal 2mm (±0.08 in)
1.19	Beam detection indication Liquid crys	al (both sides) and buzzer
1.20		size dry cell batteries
1.21		urs at +20°C (+68°F) (Using alkaline
1.22	Auto shut-off delay Approx.	30 minutes without beam detection
1.23		sed on the standard IEC60529)
1.24		50°C (-4°F to +122°F)
1.25		60°C (-22°F to +140°F)
1.26		76(W)x26(H)mm (5.7x2.9x1.0 in)
1.27	Weight 0.19 kg	[0.41 lbs] (including dry cell
2.0	Material Specifications (Bucket)	
2.1	Body made from 2440x720x8mm M.S sheet. from 2440x440x8mm M.S sheet.	\mathbf{i}
2.2	Side Walls (internal); 02 Nos.710x250x10mm	M.S sheet Welded to bucket body.
2.3	Internal Side Wall: Reinforced at front with 67	0x605 mm L-key bend.
2.4	Adjustable side walls (External): 2 Nos, 550x side walls adjustable according to scraper and	30x10 mm M.S sheet bolted with external
2.5	Braces 02 Nos, 690x50x10mm M.S flat bolted	to external wall and bucked
2.6	Cutting Edge Reversible Double Side edge: 24 bolts.	30x150x16-20 mm SAE 1045-1050 with 8
3.0	Draw Bar	

	T PART	
3.1	Pipe: 2060 long. 160-180mm outer dia M.S pipelosed with 170x170x20 mm M.S plates.	pe of 8 mm wall thickness. Pipe ends
3.2	02 Nos, 280x130x15 mm M.S Plates reinforce	d with 02 Nos. 300x90x15mm M S plates
3,3	Hook. Forged steel 400mm long hook outer di	a 120mm, inner hole 55mm, nin die 35
4.0	mm outer pipe dia 80 wall thickness 8mm weld	ded to 02 Nos M.S plate 200x130x10 mm.
4.1	Eye all screws 02 Nos left hand threads 38mm	dia 02 Nos. right hand threads 38mm dia
4.2	Pipe 02 Nos 6 mm wall thickness 1550 mm lor ball and screw. Eye balls 04 Nos.	ng outer dia 700-720 mm including eye
4.3	Pins 04 Nos. 150mm M.S round with safety pin welded to draw bar pipe 02 Nos. 152x100x15 r 390x110x15mm M.S with pin holes.	nm M.S lower plate 01 Nos.
4.4	Links Brackets (on bucket) 04 Nos welded to the 130x110x15mm M.S plates with pin holes.	
4.5	Tow bar coupling 02 Nos .M.S plates welded to	pipe 500×150 ×10 mm.
4.6	Attachment 02 Nos .M.S plates welded to buck tow bar height, 04 Nos bolts 30 mm dia 02 Nos from lower side.	et body 550×250×10 mm with adjustable s. Reinforcement plates 550×100×10 mm
4.7	01 No, 300×230×6 mm M.S plate welded at bu 02 No. Reinforcement plates 750×100×10 mm at top	cket base for reinforcement of above plate
5.0	Hydraulic Assembly	
5.1	Mast (Attachment Base) M.S pipe 1000 mm lowith quick lock at top for rigid mast.	ng.100 mm outer dia 5 mm wall thickness
5.2	Foundation inverted U type 280×250×10mm w	elded to bucked M.S
5.3	By screw axis receiver Increment/Decrement.	
5.4	Hydraulic jack frame 02 Nos. 850×100×20mm right position	
5.5	Of jack welded reinforcement sheet at centre. 0 with spacer pipe 02 No .300×100×20mm M.S f below Z reinforcement sheet along bucket curve welded to 400×190×8 mm M.S plate and welde	lat welded in line with above two pieces 2.02NOS ,200×160×20 mm M.S.plate d to H-shape.
5.6	Hydraulic jack 01 No .470mm long .100 mm or	iter dia

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5.7	Piston dia 40mm double acting with two jack round	pins 140mm long .25-32 mm dia M.S	
5.8	02.Nos, 1000 mm long and dia 24-28 mm, hy dia 24-28mm ,hydraulic pipe connect to jack	and tractor	
5.9	H-frame boxes 02 No .200×200×6-7mm M.S No .200×200×8 mm M.S sheet 01 No. Box 200×200×6-7 mm M.S sheet .800 02,Nos .500×240×10 mm M.S plate bolted w 01 Nos, Axle, 2300 mm long outer dia 65mm 02, Nos .hab with 6 bolt .04 Nos .ball bearing 04, Nos wheel 6-bolte 15 and 04.Nos. tire	sheet .800 mm long ends closed with 04 Omm long. ith axle and welded to H-frame	
6.0	Training and Operator Manuals:		
4.1	One-day of training must be provided to operation and maintenance of the machin	e. <i>OK</i>	
4.2	Operator's handbook in English and/or lo	cal language for each unit OK	
	Spare Parts:		
5.1	A list of manufacturer's recommended, fa year of operation must be submitted for e individually itemised, costed and submitte	ach machine. The list must be	
6.0	After Sales Service:	- yan you old.	
6.1	Supply name, address and Tel./Fax number of agents in Afghanistan.		
6.2	State who will be responsible for undertaking equipment upon arrival.		
6.3	A clear statement is required with your bid of after sales service that will be available with t	he goods offered.	
6.4	The bid price must include the cost of deliver	and installation	166.
7.0	Warranty:		

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7.1 A clear and comprehensive statement is required with your bid of the terms and conditions of the product warranty that will be available with the goods offered. Minimum one-year warranty. Warranty certificate: a. Supplier shall issue certificate of warranty inclusive to labour and spare parts, warranty card (pre-numbered by the manufacturer): prime mover/engine and spare parts – at least six months; b. Warranty period shall start a day after the unit has been accepted base in the certificate of acceptance. 8. Goods not meeting specifications: a) Upon delivery and inspection, if the goods do not meet the technical specification quoted, the Supplier will be responsible for the cost of taking back such items; b) The item not meeting technical specifications will be replaced and delivered within a period of two weeks' time.		
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	8. Goods not a) Upon de quoted, b) The iter	eting specifications: ery and inspection, if the goods do not meet the technical specification Supplier will be responsible for the cost of taking back such items; of meeting technical specifications will be replaced and delivered

FAILURE TO COMPLY WITH REQUIREMENTS 1 to 3 STATED BELOW WILL RESULT IN YOUR BID BEING REJECTED

1. You must complete all the empty spaces in the technical specification sheet to confirm your specifications being offered.

2. Your bid <u>must include a manufacturer's brochure</u> or leaflet describing the equipment being offered to enable your specifications to be verified.

3. All brochures and leaflets submitted <u>must</u> be written in the English language or a translation into the English language.





Appendix II: FINANCIAL OFFER

#	Item description	Delivery location		Qty	Qty Offered (each)	Unit Price FCA	Total Cost FCA (in US\$*)	Total Freight Cost / (in	Total Insurance Cost	COST DAP	Delivery Time (specify	Delivery
		Province	district	(each)	(1)	(in US\$*) (2)	(3) = (1) x (2)	(4)	(in US\$*) (5)	(in US\$*) (6) = (3) + (4)+(5)	in calendar days)	Mode
1	Laser Leveler	Herat	Herat City	5								
	T	OTAL:										

^{*} If the quote is in a different currency than specified here, FAO will convert prices for the commercial evaluation to the requested currency using the official UN exchange rate corresponding to the date of the offer.

NOTE regarding arithmetical errors and discrepancies:

- If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected, unless in the opinion of evaluators, there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted will govern and the unit price will be corrected.
- If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals will prevail and the total will be corrected.
- In case of discrepancy between a word and figures, the amount in words will prevail, unless the amount expressed in words is related to an arithmetical error, in which case the amount in figures will prevail subject to the note above.

