

SCOPE: SUPPLY, ACCESSORIES & COMMISSIONING OF ALIGNMENT TELESCOPE COMPLYING WITH SPECIFICATION AS BELOW

SNO	DESCRIPTION FOR BHEL REQUIREMENT	CONFIRMED BY BIDDER	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE: The optical alignment telescope(Qty -2 Nos) is intended make measurements of deviations from a reference line for the following applications:-				
	1.1 Measurement of drift in deep drilled holes.	TO NOTE			
	1.2 Optical Alignment of a number of components in the line of sight in Horizontal and vertical planes.	TO NOTE			
2.0 APPLICATION					
2.1	Hole drift of 0.1 mm for drilled holes of depth 150 mm, 86 mm & Hole drift of 0.05 mm for drilled holes of depth 65 mm and dia. 12.76 mm. Dia of the Job will be 2189 mm.	TO NOTE			
2.2	Hole drift of 0.15 mm for drilled holes of depth 210 mm, 250 mm, & 340 mm, and dia. 12.76 mm. Dia of the Job will be 1165 mm.	TO NOTE			
3.0	Scope of Supply: Alignment Telescope, Mounting base, & Glass targets meeting our application for measuring drift and training for operation & maintenance of alignment telescope.	TO CONFIRM.			
4.0 QUALIFYING CONDITIONS :					
4.1	Only those BIDDER who have manufactured, supplied and commissioned at least 2 No. of Optical Alignment Telescope in the last 8 years as on the tender due date.	TO CONFIRM			
4.2	For Startups & Micro and Small vendors (Manufacturers ONLY) experience criteria is relaxed to 1 No of Optical Alignment Telescope only.	TO CONFIRM			
4.3	Note:1. BHEL prefers Bidders should be OEM, 2. In case the bidder is authorized representative of OEM then Authorization letter with an agreement required & Qualifying document of OEM will be acceptable for authorized bidders. 3. No concessions are provided to MSME Traders.	TO CONFIRM			
	(A) Name of the customer / company where similar machine is installed.	To Specify			

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5.2.2	Least count of measurement: 0.02 mm or better.	TO SPECIFY.			
5.3	Measurement accuracy of the offered equipment: 0.05 mm at 20 m or better.	TO SPECIFY.			
5.4	The equipment should have a built-in auto reflection target on its objective lens.	TO CONFIRM.			
5.5	Auto collimation Illumination unit for the target.	TO CONFIRM.			
5.6	Effective aperture: 40 mm minimum.	TO SPECIFY.			
5.7	Straightness of line of sight: + 0.002" (0 to 50'); + 0.004" (50' to 100'); 0.5 arc seconds beyond 100'.	TO SPECIFY.			
5.8	Eyepiece: Fully erect / straight image on diopter scale.	TO CONFIRM.			
5.9	Telescopic Barrel shall be made of hardened stainless steel and Barrel diameter shall meet A.I.A. specifications or relevant international standard.	TO SPECIFY.			
5.10	Focusing knob to show focusing distance in meters.	TO CONFIRM.			
5.11	Field of view: 0.5 degree minimum at infinity & 40 mm minimum at zero focus.	TO SPECIFY.			
5.12	Magnification: Should vary automatically from 4X minimum at zero focus to 34X minimum at infinity.	TO SPECIFY.			
6.0	Accessories: The bidder to quote for the accessories / attachments as listed below. Bidder to provide item wise breakup of all the accessories offered as mentioned below. Evaluation will be done considering optical alignment telescope and its accessories together as mentioned below.	TO NOTE			
6.1	Suitable Mounting Base for Alignment Telescope for moving in X & Y direction -Qty -2 Nos. Bidder to specify details compatible for our application.	TO SPECIFY.			
6.2	Graduated Glass displacement Target dia 1.5"(38 mm) mounted. Preferably it shall be of metric version-Qty-6 Nos (Suitable targets to suit diameter and our application to be offered)	TO SPECIFY. (Inches /Metric)			

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	(B). PO no	TO Specify. PO copy Required			
	(C).Month & Year of commissioning/supply	To Specify. Invoice copy/Commissioning report required.			
	(D).All Bidders has to submit at least 1 performance Certificate from any of their customers from above PO'S, for satisfactory performance of for at least 1 year during last 8 years as on the tender due date.	Performance certificate/Satisfactory Performance mail required.			
4.4	(A)Bidder Should have on average Turnover of Rs 5 lakhs or more for last 3 consecutive financial years ending march 2019 & it should be supported by Annual report(Balance Sheet and Profit & Loss Account). In case of Foreign bidders, business information report issued by D & B/ Experian etc to be submitted along with offer.	To provide supportive document			
	(B) For Startups & Micro and Small vendors (both for Manufacturers and Traders) exemptions are provided from the condition in 13.4 (A).	TO CONFIRM			
4.5	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/incorrect,the offer shall be rejected.	TO CONFIRM			
5.0	SPECIFICATIONS				
5.1	Focus for eyepiece: 0 to infinity	TO CONFIRM.			
5.2	Micrometer: The equipment shall have X and Y micrometers in order to measure lateral shifts in two mutually perpendicular directions with respect to set line of sight.	TO CONFIRM.			
5.2.1	Micrometer shall be of Metric version.	TO CONFIRM.			

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7.0	The equipment shall be supplied with calibration certificate traceable to National / International standards.	TO CONFIRM.			
8.0	Operation and maintenance manuals (IN ENGLISH) for the telescope and accessories shall be given in both hard copies (3 sets) and soft copy (CD – 1 no.) along with the offer.	TO CONFIRM.			
9.0	The equipment shall be offered for inspection by BHEL at vendor's works prior to dispatch if required by BHEL.	TO CONFIRM.			
10.0	The assembly and commissioning of the equipment at BHEL works shall be the responsibility of the vendor's representative. Vendor may visit.	TO CONFIRM.			
11.0	Training & operation and maintenance of the equipment shall be imparted to BHEL staff by the vendor's representative.	TO CONFIRM.			
12.0	The performance of the equipment shall be guaranteed/Warranty for a period of 12 months from the date of commissioning or 18 months from the date of dispatch which ever is earlier.	TO CONFIRM.			
13.0	Bidder may also provide optional quotation for Target Holders compatible to our Tubesheet drilled holes and fixtures compatible to our Deep Gun Drilling Machine. It will not be considered for evaluation purpose.	TO CONFIRM.			
14.0	OTHER PARTICULARS				
14.1	Details on Standards followed in Design/Manufacturing and Testing of Optical alignment telescope.	TO SPECIFY			
14.2	Number of Optical alignment telescope supplied & commissioned during last 10 years.	TO SPECIFY			
14.3	The BIDDER shall give details about supply of similar equipment to other BHEL units if any with Make, Model and Year of Supply & Commissioning etc.	TO SPECIFY			
14.4	Servicing facility to be available in India Details on Service-After-Sales Set-Up in India (Address of Agents/Service Centers), to be furnished Compulsorily.	TO SPECIFY			
14.5	Any Additional Data to supplement the manufacturing capability of the BIDDER.	TO SPECIFY			