

Annexure - I : Torque sensor specifications

Standard Capacities in NM	0.5 to 2000 Nm
RPM	5 to 4000 max Non – Contact type with Radio Digital Telemetry system
Non – Linearity	< $\pm 0.25\%$ FSO
Hysteresis	< $\pm 0.2\%$ FSO
Non-Repeatability	$\pm 0.5\%$ FSO
Creep (30 minutes)	< $\pm 0.3\%$ FSO
RF Transmitter	Battery operated with inbuilt battery & installed on the Torque Shaft, Transmitters sensor signal via Digital Radio Telemetry to stationary Receiver
Rechargeable Battery	Li-Ion battery pack capable of 20 Hrs run time installed in Transmitter with one spare battery & battery charger.
Zero Drift	$\pm 0.02\%$ / C degree
Span Drift	$\pm 0.02\%$ / C degree
Operating Temperature	0 to 50 C degree
Safe Overload	150% OF RC
Ultimate Overload	200% OF RC
Temp. Compensated Range	10 to 50 0 C
Display & Receiver	LED with 5 Digits. Receives Radio Digital Signal from Transmitter.
Display & Receiver Power	230VAC @ 50 HZ
Communication port (from receiver to Computer)	Serial to USB port
Torque transducer detail	Flange type with anti rust coating, Should be as per wheel dimension . Able to measure the torque on the wheel
Wheel Dimension	M16, 5 nos of bolts , PCD -430mm
Output Display	Torque , rpm ,power & angle of rotation , Data should be transfer in form of excel file to the computer
Data Measuring frequency	10 data/sec


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 13/01/2020