ANNEXURE-I

DETAILED SPECIFICATIONS OF GREENSEEKER FOR NDVI MAPPING FOR PRECISION AGRICULTURE APPLICATION	
ITEM DESCPRIPTION	Unit that provides precision measurement and data logging of Normalized Difference Vegetative Index (NDVI) for generating maps. Also Unit should be supported with handheld PDA
EMISSION WAVELENGTH	
Near infrared	774nm
Red	656nm
MECHANICAL SPECIFICATION	
Dimension	Less than 30x10x20 cm (LxWxH)
Weight	Less than 2 kg
Mounting	Should be Tractor mounted
Sensor mounting Height	75 cm to 100 cm
ELECTRICAL SPECIFICATION	
Voltage	12VDC
Current	0.75 A
OUTPUT	
Data Format	RS 232
Vegetation Index	NDVI
NDVI Range	0 to 1 (approximate limits)
PDA SPECIFICATION	
Weight	750gm
Operating System	Windows or Android
Screen	4.5" and above
Battery	4000mAh minimum
Sensors	Accelerometers, gyroscope, Ambient light sensor, Digital compass, Barometer, Proximity, Ambient temperature
Connections	USB A Host, USB micro, DB9 RS-232 serial
ACCESSORIES	
Sensor Cable	
Integrated Stainless Steel Bracket	
OTHER REQUIREMEMNTS	
A demonstration of working of entire unit at the institute is preferred.	
The supplier should be reliable.	
Warranty: 1 year	
PDA provided should be compatible with the Greenseeker.	