

SORS – SCHEDULE OF REQUIREMET:

10 KW Solar Power System Kunnar Welfare Dispensary Hyderabad.

Sr #	Description	Unit	Quantities
01	Supplying of Customised G.I Pre-fabricated Solar Stand 12/14 SWG , for fixing 02 Solar panels on each stand , including 3/8''-1/2 anchor bolt including nuts,bolts,washers etc.	Each	As per load 9720 watts
02	Supply of solar panels polycrystalline(PVC module) 540 watts , a quality made in Germany /Canada/China or equivalent etc.	Each	9720 solar watts .
03	Supply of hybrid solar inverter on grid/off grid MPPT based , 10 KW infinity-v/infinity vii/MKS-II or equivalent , supporting 48 volts system with battery and without battery solar inverter , suitable for 48 volts all in one pure sine waves best quality with 01 year warranty .	Each	As per load 9720 watts
04	Supplying of pure DC copper cable (99.99) % single core /tin coated 30mm 2 form inverter to batteries , running of cables in PVC pipe/dura duct 1''to 3''from batteries to invertors, complete in all respect.	Meter	As per load 9720 watts
05	Supply of pure DC copper cable (99.99) % single core/tin coated 10mm 2 form pv module to invertors running of cable in pvc pipe(shavel or equivalent 1''dia fixing the PVC pipe with G-1/PVC saddle from poly module to inverter	Meter	As per load of 9720 watts

Sr #	Description	Unit	Quantities
06	Supply of deep storage battery phoenix TX-2500, 12 Volts , high TECH/non-spillable of phoenix or equivalent with electrolyte , electrolyte indicator company charged with lead terminals complete in all aspects .	Each	12
07	Supply of suitable solid wooden table 1.5"x3" wooden frame, china commercial wood , wooden/Rack 2x4' for batteries height up to 2"-6 from ground level , in two shelves etc.	Mr	04
08	Supply of main concealed steel DB, 14 SWG, Powder coated (18x30") with lock and locking arrangements and with light indicators fixing 3mm glass in open able door, fixing following breakers/items in DB details as under 1-(8 nos AC breaker 10 A/20/A) 2-(02 nos AC/DC breaker two pole 40/50 amps 500 volts for PVC in and out)3-80/100 amps change over switch 500 voter rotary type best quality , 4-surrege arrestors 02 Nos, for PVC in and AC Out , 5 –breaker should be schenieder pr hager completing the DB with all connections/terminations , 6- AC/DC lights indicator with volts /AMP meter and earthening th DB connecting with existing DB/System /Running the complete system in good work condition as per Engineering practice .	Each	02
09	Testing of commissioning of Solar system/above items as per Engineering Practice , as per direction of Engineering in charge , complete in all	Each	02

	respect, connecting of main DB with existing DB and running to entire system entire satisfaction of engineer inn charge. inverter to batteries , running of cables in PVC pipe/dura duct 1''to 3''from batteries to invertors, complete in all respect .		
11	Earth complete as described in para 24-18.5 of internal electric specification in 8 SWG copper conductor S/F	Each	9720 watts as per load.
12	Providing n laying (main or sub main) PVC insulated wire with 7/.029/.036/.065 in PVC conduit ¾ complete in all respect .	Meter	As per connection requirement of 10KWA
13	Wiring for main with 2-7/0.85, .0764 pvc insulated in 30 mm(1/4'' pvc insulated wire service 7 .	Meter	200
14	Contractor will provide original invoice with catalog of the invertors to the department and provide guarantee for free replacement of parts for 1 year.	NIL	

Note : all above work is required with high class expertise and best engineering practice , as there is no power connection at building , all connection work fitting will be required.Additional relevant accessories may be needed when required for power connection purpose.