

	Electric and Photovoltaic Division BENGALURU – 560012, INDIA Purchase Specification Group: Photovoltaic Module		SPEC. NO: EP: SPV: PC:02	
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Packing of SPV module for Kaduna Project

SCOPE: The Scope of Packing the SPV modules involves:

- Supply of SPV Modules packing materials as per the Bill of Materials provided in BHEL drawing no 3-988-06-00310, Rev-01 and 3-988-06-004-10, Rev-01.
- Carrying out the packing of SPV Modules using the material supplied as above and as per the procedure of packing indicated in this document below within the premises of BHEL – EPD, Bengaluru. The scope also includes providing the requisite manpower as per the required skill and competency to carry out the SPV Modules packing in Manual mode as required and as instructed by BHEL.

1.0 PROCEDURE FOR PACKING :

The SPV Modules are manufactured by BHEL on an automated manufacturing line, wherein the SPV Modules are being delivered by an automated conveyor and an automatic sorter machine sorts the SPV based on the rating. Based on the project requirement, 16 nos or 19 nos of SPV Modules are to be packed in one box.

The sequence of operation for manual packing is as follows:

- Screwing the carton box on to the wooden pallet.
- Placing 5 ply carton sheet of dimension 2030X740mm or 2030X630mm at the bottom of the box depending upon 19 nos or 16 nos modules to be packed.
- Placing corner caps suitable to match frame profile at the four corners of the PV module
- Placing 16 nos or 19 nos of PV modules with corner caps inside the box as per drawing 3-988-06-004-10, Rev-01 or 3-988-06-00310, Rev-01 depending upon requirement.
- Placing of silica gel sachets between the modules. Each sachet shall be attached with cello tape to the Aluminium frame of modules at bottom side, not touching to the backsheet and as well as glass of the other module.
- Close the carton with top cover.
- Write the carton box no. & put a packing slip on printing side indicating S. no, Module Sl. no. & Pmax.
- Wrap the carton box tightly along with pallet with nylon strip at two places each on width and length side.
- Wrapping of the wrapper sheet on all five sides of the box after nylon strip tightening.

Note:

The contractor shall ensure the following while carrying out the packing activity within BHEL – EPD, premises.

- It must be ensured that modules cleared by BHEL should be packed immediately, without undue delays.
- Modules should be handled carefully and stored in area prescribed by BHEL.
- Manual packing has to be carried out as per instructions of BHEL representative and as per the instructions for manual packing.

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1 st Issue	SPV Prodn	Apoorv Shukla	Manoj Kumar	Indrajit Kumar	07.09.2020

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- d. Quality of the packing will be verified by SPV Quality/production department of BHEL.
- e. Account of numbers of boxes received and used to be maintained by vendor as per prescribe format and same will be subjected to verification to SPV Production department authorized personnel on daily basis.
- f. The contractor has to take utmost care and operate the BHEL material, & equipment viz., the auto packing equipment as per the instruction and not indulge in any activity that may cause damage or breakdown. In case of any damage occurs to BHEL's equipment, modules and facility due to the fault of the contractor's employee then the cost towards damage will be recovered from vendor.

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