






TD-106-1 Rev No. 5	Form No.		PRODUCT STANDARD PROJECT ENGINEERING & SYSTEMS DIVISION BHEL R.C PURAM, HYDERABAD -32	Doc.No: PY60054 Rev No.: 00 Page 1 of 6
<p style="text-align: center;"> <u>TECHNICAL SPECIFICATION</u> <u>FOR SUPPLY OF</u> <u>MODULE MOUNTING STRUCTURE (MMS)</u> </p> <p> <u>PROJECT</u> : <u>1X65 MWp SPV POWER PLANT, NLC, NEYVELI, Tamilnadu</u> </p> <p> <u>CUSTOMER</u> : <u>NEYVELI LIGNITE CORPORATION LIMITED</u> </p>				
Ref. Doc	Prepared By:  G.SESHU KIRAN	Checked By :  SURESH.P	Approved By :  J.K PATTANAIAK	Date : 08.08.16

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A. INTRODUCTION

Bharat Heavy Electricals Limited (BHEL), a premier Maharatna public sector undertaking in the field of Manufacturing entire range of power plant equipments and has proven turnkey abilities for executing power plants from concept to commissioning. BHEL PE&SD Hyderabad executing solar PV Projects.

NLC is Setting up of 130MW grid interactive solar PV power project at Neyveli site, Cuddalore district, Tamilnadu state, India comprises of two nos. blocks of capacity 65 MWp each. The solar PV power project at Neyveli site is located within NLC's command area adjoining township at Neyveli. BHEL is setting up one of block of 65 MWp capacity. The 65MW block which is being executed by BHEL is again subdivided into two sub-blocks of 40MW & 25MW blocks which are located 7-8 km apart.

Plant Location	:	Neyveli site, Cuddalore district
State	:	Tamilnadu
Nearest Important Town	:	Neyveli
Nearest Railway Station	:	Vridhachalam Jn
Nearest Airport	:	Chennai

The PV modules shall be mounted on metallic structures called Module Mounting Structures (MMS). This document describes the technical specification for MMS.

B. SCOPE


This specification covers the supply of structural elements for MMS (refer annexure-1) as detailed below:


Variant No.	Scope of Supply	BHEL Material Code	Remarks
01	Supply of Column Posts	PY9760054019	Includes channel section with punctured holes, etc.
02	Supply of Super Structure of MMS (balance structural elements in MMS like rafters, purlins, bracings etc.)	PY9760054027	Includes Rafter sections with welded cleats, Purlin sections with slotted holes, Bracings and Angles with punctured holes, etc.
03	Supply of Fasteners	PY9760054035	SS304 and Class A2-70


C. MATERIAL SPECIFICATION

MMS frames, post, assembly of the structures, etc. shall conform to Indian standards as mentioned in the list of code. Refer Annexure-1 for details of structural members. All cold formed sections shall be minimum yield stress 350MPa and Hot rolled sections of minimum yield stress 250MPa.

IS: 2062	-	Hot Rolled Medium and High Tensile Structural Steel
IS: 811	-	Cold Formed Light Gauge Structural Steel Sections
IS: 513	-	Cold-rolled low carbon steel sheets and strips

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Ref.	Doc			

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