

## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

<b>PRODUCER</b>	B. S. Progressive Pvt. Ltd. 3A Pollock Street 1 <sup>st</sup> Floor 700001 Kolkata India
<b>PLACE OF PRODUCTION</b>	Gangarampur P. S. Bishnupur Diamond Harbour Road 24 Parganas 743503 West Bengal India
<b>DESCRIPTION</b>	Marine plywood constructed from Gurjan timber, with or without alternative decorative timber facings, bonded with WBP type melamine urea or phenol adhesive.
<b>TYPE</b>	POWERPLY: Comprising: Powerply (Gurjan throughout) Powerply Teak (Teak facings) Powerply Sapeli (Sapeli facings) Powerply Mahogany (Mahogany facings) Powerply Fire Fighter (Gurjan throughout) Powerply FR (Gurjan throughout) Powerply Okume (Okume facings) Power Decorative (Any hardwood facing) Powerply Cabin Sole (Gurjan throughout) Powerply World Panel (Gurjan throughout) Austin Powerply (Gurjan throughout) Lincoln Valueply (Gurjan throughout) Power AccoustiPLY (Oak facings)

<b>Certificate No.</b>	07/00064
<b>Issue Date</b>	12 September 2007
<b>Expiry Date</b>	11 September 2012
<b>Sheet</b>	1 of 2



P.F. Moysey  
London Design Support Services  
Lloyd's Register EMEA


Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

<b>APPLICATION</b>	For the construction of small craft in marine applications, and also in offshore and industrial applications, where a WBP grade plywood is specified.
<b>SPECIFIED STANDARDS</b>	BS 1088:2003 – Marine plywood
<b>RATINGS</b>	Timber is classed as “moderately durable” in accordance with BS 1088:2003.  Panel sizes (mm): 1840 x 920 to 3050 x 1525  Thicknesses (mm): 1.5 to 50
<b>OTHER CONDITIONS</b>	Panels manufactured with alternative hardwood facings are classified the same as Gurjan timber throughout, with respect to BS 1088:2003  This approval relates to the durability of the plywood only, and does not relate to any other parameters, such as fire resistance or acoustic properties.

*“This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify LR of any modification or changes to the equipment in order to obtain a valid certificate.”*

*The Design Appraisal Document No. 07/00064 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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Issue number 1

**DESIGN APPRAISAL DOCUMENT**

Date 12 September 2007	Quote this reference on all future communications LDSS/PAS/W01459175/PFM/ O-84908
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**LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2002.**

**Issued to: B S PROGRESSIVE PVT LTD  
for: MARINE PLYWOOD, TYPE POWERPLY  
TYPE APPROVAL CERTIFICATE No. 07/00064**

The undernoted documents have been reviewed for compliance with the requirements of Lloyd's Register's Type Approval System, 1996 and this Design Appraisal Document is a supplement to the Certificate.

**APPROVAL DOCUMENTATION**

Request form	29/05/2007
Powerply data sheets	
Quality control manual for marine plywood	
LR Materials Department review	24/08/2007

**TEST REPORTS**

Knife test reports, Batches 02/06 & 03/06	30/07/2007
Bonding quality test reports, Batches 02/06 & 03/06	16/07/2007
Glue shear strength test reports, Batches 02/06 & 03/06	30/07/2007
BS 1088 test records, Batches 02/06 & 03/06	

**Supplementary Type Approval Terms and Conditions**

*Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.*



P.F. Moysey  
Product Approval Services,  
London Design Support Services  
Lloyd's Register EMEA/London Office  
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**Part 1A**  
**Subject: Materials**  
**Product: Plywood and Other Wood Boards (Part 1A)**

Producer/Licence No.		Description of Product			Cert. No.
Type	Details of Approval	Application	Remarks		
<p><b>POWERPLY:</b>            Comprising:            Powerply,            Powerply Teak,            Powerply Sapeli,            Powerply            Mahogany,            Powerply Fire            Fighter,            Powerply FR,            Powerply Okume,            Powerply            Decorative,            Powerply Cabin Sole,            Powerply World            Panel,            Austin Powerply,            Lincoln Valueply,            Power Accoustiply</p>	<p>Marine plywood constructed from Gurjan timber, with or without alternative decorative timber facings, bonded with WBP melamine urea or phenolic adhesive.</p> <p>Timber is Classed as "Moderately Durable" in accordance with BS 1088:2003</p> <p>Panel sizes (mm): 1840 x 920 to 3050 x 1525</p> <p>Thicknesses (mm): 1.5 to 50</p>	<p>For the construction of craft in marine applications, and also in offshore and industrial applications, where a WBP grade plywood is specified.</p>	<p>Expires: 11 September 2012</p>	<p>07/00064</p>	

