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<u>RECOMMENDED PACKAGING OF INDUSTRIAL FASTENERS</u>		SUPERSEDES BP 710 00 99 (Rev. 04)
1.0 INTRODUCTION : Issue of Industrial Fasteners in Standard packages has considerably reduced and simplified the operations & has affected considerable savings. 2.0 SCOPE : This standard covers the recommended packaging of industrial fasteners stocked in Factory Main Store. Threaded & unthreaded fasteners received in FMS would be in standard packages. Issue and Receipt of such fasteners would be in standard packages irrespective of the requirements. All user departments shall draw their requirements from FMS in terms of standard packages. However for the purpose of Accounting etc., unit would be numbers only but converted to packages for simplified operations. 3.0 GENERAL : 3.1 In formulating this standard considerable assistance has been derived from IS:1367 pt.18 for packaging of fasteners. Additionally, packaging / count charts of some of the leading indigenous manufacturers have been taken into consideration. 3.2 All fasteners supplied shall be as per the packaging chart (See page 3 to 5) in respect of quantity per carton. Before packing the fasteners shall be given surface protection coat / temporary rust preventive. 3.3 The fasteners so treated shall be packed in suitable Polythene bags having a thickness of 60 Microns and conforming IS : 2508 " Low density polythene film ".		
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- 3.4 The sealed polythene bags shall be packed in suitable carton made of strong quality card-board having minimum thickness 1.6 mm and conforming to IS : 2771 (part II) .

While packing due care shall be taken so that the packages are protected against mechanical damage in transit.

- 3.5 Any single packing shall contain **fasteners** of the same Designation, mechanical properties, **characteristics**.

4.0 PACKING & MARKING :

Each package shall be marked clearly & legibly with the following information on suitable labels affixed to the **cartons**.

- 1). Product Designation .
 - 2). Pictorial Representation of product where **possible**.
 - 3). **No.** of pieces in the **carton**.
 - 4). Net **weight**.
 - 5). Name and Identification of the **manufacturer**.
- 5.0 Distinctive colour marking preferably as mentioned below, shall be provided on the package as per IS : 1367 pt.18.

Property Class		Colour of the Label
Bolts & Screws	Nuts	
Up to 6.8	Up to 6	Green (Optional)
8.8	8	Red
10.9	10	Blue
12.9	12	Yellow

6.0 Supply of fasteners in gunny bags will not be accepted

All cartons packed in wooden box shall contain fasteners of the same designation, mechanical properties and **characteristics**.

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HEX. HEAD BOLTS / SCREWS (STEEL P.C. 4.8, 8.8 & BRASS)				SCREWS C' SK & CHEESE HD. STEEL & BRASS	
SIZE	QUANTITY PER CARTON	SIZE	QUANTITY PER CARTON	SIZE	QUANTITY PER CARTON
M 4 X 6	200	M 10 X 30	200	M 3 X 10	200
M 4 X 12	200	M 10 X 40	150	M 3 X 12	200
M 4 X 16	200	M 10 X 50	100	M 3 X 20	200
M 4 X 20	200	M 10 X 65	100	M 3 X 30	200
M 4 X 25	200	M 10 X 75	75	M 4 X 8	200
M 4 X 30	200	M 10 X 100	50	M 4 X 10	200
M 4 X 40	200	M 12 X 20	200	M 4 X 12	200
M 5 X 10	200	M 12 X 25	150	M 4 X 16	200
M 5 X 12	200	M 12 X 30	150	M 4 X 20	200
M 5 X 16	200	M 12 X 40	100	M 4 X 25	200
M 5 X 20	200	M 12 X 45	100	M 4 X 30	100
M 5 X 25	200	M 12 X 50	100	M 4 X 40	100
M 5 X 30	200	M 12 X 60	75	M 5 X 10	200
M 5 X 40	200	M 12 X 65	75	M 5 X 12	200
M 6 X 10	1000	M 12 X 75	50	M 5 X 16	200
M 6 X 12	800	M 12 X 110	50	M 5 X 20	200
M 6 X 16	800	M 16 X 40	50	M 5 X 25	200
M 6 X 20	600	M 16 X 45	50	M 5 X 40	100
M 6 X 25	600	M 16 X 50	50	M 5 X 50	100
M 6 X 30	400	M 16 X 65	40	M 6 X 12	200
M 6 X 40	300	M 16 X 80	35	M 6 X 16	200
M 6 X 50	300	M 16 X 90	30	M 6 X 20	200
M 8 X 12	500	M 16 X 100	30	M 6 X 25	200
M 8 X 16	600	M 20 X 45	30	M 6 X 30	100
M 8 X 20	400	M 20 X 50	30	M 6 X 40	100
M 8 X 25	300	M 20 X 65	25	M 6 X 50	100
M 8 X 30	200	M 20 X 75	20	M 8 X 12	100
M 8 X 40	200	M 20 X 90	20	M 8 X 20	100
M 8 X 45	200	M 20 X 100	15	M 8 X 25	100
M 8 X 50	200	M 24 X 55	15	M 8 X 30	100
M 8 X 65	150	M 24 X 75	15	M 10 X 20	100
M 10 X 20	300	M 24 X 90	10	M 10 X 25	100
M 10 X 25	150	M 24 X 100	10	M 10 X 30	100
				M 10 X 40	100
				M 12 X 30	100



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SCERWS (CAP AND GRUB) , STEEL			SCERWS HAMMER DRIVEN, STEEL		STUDS , STEEL P.C.6.6	
SIZE	QUANTITY PER CARTON		SIZE	QUANTITY PER CARTON	SIZE	QUANTITY PER CARTON
	GRUB	CAP				
M4 X 6	100	-	No. 0 X 4.8	1000	M8 X 30	200
M4 X 10	100	-	No. 0 X 6.4	1000	M12 X 40	100
M4 X 12	100	-	No. 4 X 6.4	1000	M20 X 55	25
M5 X 6	100	-	No. 4 X 8	1000	STUDS , (AUTO-WELD) STEEL	
M5 X 10	100	-	No. 6 X 6.4	1000		
M5 X 12	100	-	SCREWS/ (C' SK HEAD) WOOD , STEEL & BRASS		SIZE	QUANTITY PER CARTON
M6 X 10	100	-				
M6 X 12	100	100	SIZE	QUANTITY PER CARTON	M6 X 20	600
M6 X 20	100	100			M8 X 20	600
M6 X 25	100	100	No. 2 X 12	200	M8 X 25	500
M6 X 30	-	100	No. 4 X 12	200	M8 X 35	300
M6 X 40	-	100	No. 4 X 20	200	M8 X 45	300
M6 X 50	-	100	No. 4 X 25	200	M10 X 20	400
M8 X 12	100	-	No. 6 X 12	200	M10 X 25	350
M8 X 20	-	50	No. 6 X 20	200	M10 X 30	300
M8 X 25	-	50	No. 6 X 25	200	M10 X 40	200
M8 X 40	-	50	No. 6 X 30	200	M10 X 45	150
M8 X 50	-	50	No. 6 X 35	200	M10 X 50	150
M8 X 65	-	50	No. 8 X 20	200	M12 X 25	200
M10 X 12	100	-	No. 8 X 25	200	M12 X 35	150
M10 X 20	100	25	No. 8 X 30	200	M12 X 40	150
M10 X 25	100	25	No. 8 X 35	200	M12 X 45	150
M10 X 30	100	-	No. 8 X 50	200	M12 X 50	150
M10 X 40	100	25	No. 10 X 30	200	M12 X 55	100
M10 X 50	100	25	No. 10 X 35	200	M12 X 65	75
M10 X 65	-	25	No. 10 X 50	100	M16 X 40	75
M10 X 75	-	25	No. 10 X 60	100	M16 X 50	75
M12 X 20	-	10	No. 10 X 75	100		
M12 X 25	50	10	No. 12 X 35	100		
M12 X 40	-	10	No. 12 X 50	100		
M12 X 50	-	10	No. 12 X 60	100		
M12 X 65	-	10	No. 12 X 75	100		
M16 X 50	50	10	No. 12 X 100	100		
M16 X 65	-	10	No. 14 X 75	100		
M16 X 75	-	10				
M16 X 100	-	10				
M20 X 40	-	5				
M20 X 50	-	5				
M20 X 75	-	5				

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HEX. NUTS - COARSE / PINE STEEL / BRASS			WASHERS , MACHINED, STEEL & BRASS			WASHERS- LOCK MULTI - TOOTH, TYPE A & B STEEL	
SIZE		QUANTITY PER CARTON	SIZE (mm)	QUANTITY PER CARTON	SIZE (mm)	QUANTITY PER CARTON	
COARSE	FINE						
M3	-	5000	3.2	4000	4.3	5000	
M4	-	4000	4.3	4000	5.1	2000	
M5	-	3000	5.3	3000	6.4	2000	
M6	-	2000	6.4	3000	8.2	1000	
M8	-	1000	8.4	2000	10.5	1000	
M10	-	400	10.5	1000	12.5	1000	
M12	-	400	13	800	PIN - SPLIT - STEEL		
M16	-	200	17	400	SIZE (mm)	QUANTITY PER CARTON	
M20	M20 X 1.5	75	21	200			
M24	M24 X 2	40	25	150	1.6 X 10	200	
M30	M30 X 2	20	31	75	1.6 X 12	200	
HEX. LOCK NUTS -COARSE/FINE STEEL & BRASS			37	50	1.6 X 16	200	
			WASHERS , TAPERED STEEL		1.6 X 20	200	
SIZE		QUANTITY PER CARTON			2.5 X 16	200	
COARSE	FINE	PER CARTON	SIZE (mm)	QUANTITY PER CARTON	2.5 X 20	200	
M4	-				500	2.5 X 25	200
M5	-	400	11	100	2.5 X 32	200	
M6	-	200	14	100	3.2 X 25	200	
M8	-	200	18	100	3.2 X 32	200	
M10	-	200	22	50	3.2 X 40	200	
M12	-	200	26	25	5 X 50	100	
M20	M20 X 1.5	100	WASHER - SPRING S.C. (TYPE A & B) & D.C.STEEL		6.3 X50	100	
M24	M24 X 2	75			6.3 X 63	100	
NYLOC - NUTS			SIZE (mm)	QUANTITY PER CARTON		RIVETS (STEEL & COPPER)	
SIZE	QUANTITY PER CARTON					SIZE (mm)	QUANTITY PER CARTON
M4	1000		S.C	D.C	2.5 X 10		
M5	1000		3	5000		-	
M6	1000		4	5000	2000	3 X 6	1000
M8	500		5	5000	2000	3 X 8	1000
M10	200		6	5000	200	3 X 10	1000
M12	200		8	3000	500	3 X 12	1000
M16	100		10	1500	200	3 X 20	1000
M20	50		12	1000	200	5 X 10	800
			16	500	100	5 X 12	800
			20	200	-	5 X 16	500
			24	150	-	6 X 35	250