












**ATTACHMENT-21**

Tanjung Jati B Expansion (Jawa-4) Coal Fired Steam Power Plant 2 x 1,000 MW  
Form for List of ESP Spare Parts

Item No.	Equipment Tag Number (KKS)										Equipment Name	Description of Spare Items	supplier's name	catalogue or part number	Qty per 2 Units Proposed by MHPS		Sketch	Cross Reference Drawing	expected frequency of replacement	Remarks	
	Level 0 (Total Plant)		Level 1 (System Code)		Level 2 (Equipment Code)			Level 3 (Component Code)							nr., pcs, set, etc)	(See Item 2.7 of Instr SH)					(See Item 2.8 of Instr SH)
	G	F <sub>0</sub>	F <sub>1</sub> /F <sub>1</sub> '	F <sub>2</sub>	A <sub>1</sub> A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	B <sub>1</sub> B <sub>1</sub>	B <sub>2</sub>												
1	5 6	0	HDE	01 02							ESP Hopper	Packing for 600x600 Manhole Cover 24W x 12T x 3190L	MHPS-ES	N/A	96	pcs		N/A	2years (A periodic inspection)		
2	5 6	0	HDE	01 02							ESP Hopper	Packing for 600x600 Manhole 24W x 12T x 2590L	MHPS-ES	N/A	96	pcs		N/A	2years (A periodic inspection)		
3	5 6	0	HDE	01 02							ESP Hopper	Sheet Packing for Poke Hole φ235 x φ141 x 1.5t	MHPS-ES	N/A	192	pcs		N/A	when disassembling		
4	5 6	0	HDE	01 02							ESP Side Wall	Packing for 450x800 Manhole Cover 24W x 12T x 3150L	MHPS-ES	N/A	32	pcs		N/A	2years (A periodic inspection)		
5	5 6	0	HDE	01 02							ESP Side Wall	Packing for 450x800 Manhole 24W x 12T x 2550L	MHPS-ES	N/A	32	pcs		N/A	2years (A periodic inspection)		
6	5 6	0	HDE	01 02							ESP Roof Girder	Packing for φ640 Manhole 20W x 20T x 2250L	MHPS-ES	N/A	64	pcs		N/A	2years (A periodic inspection)		
7	5 6	0	HDE	01 02							ESP Roof Girder	Sheet Packing for Nozzle for Rope of Safety Block φ200 x φ115 x 1.5t	MHPS-ES	N/A	128	pcs		N/A	when disassembling		
8	5 6	0	HDE	01 02							ESP Inlet/Outlet Duct	Sheet Packing for Sampling Nozzle φ220 x φ167 x 1.5t	MHPS-ES	N/A	80	pcs		N/A	when disassembling		
9	5 6	0	HDE	01 02							ESP Collecting Electrode	Collecting Electrode (CL type)	MHPS-ES	N/A	11,904	sheets		ESP SYSTEM SPECIFICATION (TJB56-L2-OFF-U5/U6-HDE-M-SPC-0001)	15~20years (Depend on the inspection results)		
10	5 6	0	HDE	01 02							ESP Discharge Electrode	Discharge Electrode (Type DF15) (INC. DE Frame)	MHPS-ES	N/A	69,120	pcs		ESP SYSTEM SPECIFICATION (TJB56-L2-OFF-U5/U6-HDE-M-SPC-0001)	15~20years (Depend on the inspection results)	For ESP 1st Section	
11	5 6	0	HDE	01 02							ESP Discharge Electrode	Discharge Electrode (Type DF10R) (INC. DE Frame)	MHPS-ES	N/A	138,240	pcs		ESP SYSTEM SPECIFICATION (TJB56-L2-OFF-U5/U6-HDE-M-SPC-0001)	15~20years (Depend on the inspection results)	For ESP 2nd/3rd Section	

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