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## 1 Compilation Basis and Referred Standard

1.1 *Design drawings*

1.2 *Manufacturer's installation technical data*

1.3 *The code of erection and acceptance of electric power construction section of steam boiler set DL5047-95.*

1.4 *Mandatory standard of lifting equipment in Vietnam: Design, manufacture and testing technique TCVN 4244-2005*

## 2 Project Review and Construction Scope

### 2.1 Project Review

Overhauling lifting facilities of BOP area which belongs to Duyen Hai 1 thermal power plant project are purchased by GEDI and installed and commissioned by HTPC. There are 66 overhauling facilities in all, among which 10 belong to mechanical system, 2 belong to circulating water pump house, 22 belong to coal handling system, 9 belong to ash and slag handling system, 3 belong to demineralized water treatment system, 7 belong to hydraulic system and 13 belong to desulfuration system.

S/N	Description	Specification and model	Drawing No.	QTY
<b>Mechanical system</b>				
1	Electric block, used for oil pump motor overhauling of oil pump house in daily oil tank area	MD1 electric block, hoisting weight:2t, lifting height:4m	F4281S-J2504-307	1
2	Electric block, used for oil pump motor overhauling of oil pump house in plant oil tank area	MD1 electric block, hoisting weight:1t, lifting height:4m	F4281S-J2506-309	1
3	Electric block, used for diesel generator overhauling in diesel generator room	MD1 electric block, hoisting weight:5t, lifting height:6m	F4281S-J2701-201	2
4	Electric single beam bridge crane, used for overhauling in Air Compressor Room	MD1 electric block, hoisting weight:5t, lifting height:6m span:10.50m	F4281S-T0319-402	1
5	Electric double beam bridge crane, used for overhauling in mechanical repairing department and maintenance	QD electric double beam bridge crane, hoisting weight:20t, lifting height:10m span:15m	F4281S-T0913	1

	service department			
6	Electric double beam bridge crane, used for overhauling in mechanical repairing department and maintenance service department	MD1 electric block, hoisting weight:5t, lifting height:10m span:15m	F4281S-T0913	3
7	Column jib crane, used for overhauling in garage	MD1 electric block, hoisting weight:1t, lifting height:6m	F4281S-T0917	1
8	Subtotal			10
<b>S/ N</b>	<b>Description</b>	<b>Specification and model</b>	<b>Drawing No.</b>	<b>QTY</b>
	<b>Circulating Water Pump House</b>			
1	Double beam bridge crane in Circulating Water Pump House	Classification group: A3 , lifting weight: 50t/10t , lifting height: 17m/ 18m	F4281S-T0104-301	1
2	Semi-portal crane in water intake room	Classification group:A3,lifting weight: 20t/5t lifting height: 24m/ 24m	F4281S-T0104-302	1
3	Subtotal			2
	<b>Coal Handling system</b>			
1	Electric block, used for overhauling of T1 Transfer Tower	MD1 electric block, hoisting weight:5t, lifting height:18m	F4281S-M0301	1
2	Electric block, used for overhauling of T1 Transfer Tower	MD1 electric block, hoisting weight:3t, lifting height:12m	F4281S-M0301	1
3	Chain block, used for overhauling of T1 Transfer Tower (contain trolley)	hoisting weight:1t, lifting height:12m	F4281S-M0301	1
4	Electric block, used for overhauling of T2 Transfer Tower	MD1 electric block, hoisting weight:5t, lifting height:14m	F4281S-M0302-402	1
5	Chain block, used for overhauling of T2 Transfer Tower (contain trolley)	hoisting weight:3t, lifting height:9m	F4281S-M0302-403	1
6	Electric block, used for overhauling of T3 Transfer Tower	MD1 electric block, hoisting weight:5t, lifting height:14m	F4281S-M0303-402	1
7	Chain block, used for overhauling of T3 Transfer Tower (contain trolley)	hoisting weight:3t, lifting height:9m	F4281S-M0304-403	1
8	Electric block, used for overhauling of T4 Transfer Tower	MD1 electric block, hoisting weight:5t, lifting height:6m	F4281S-M0304-403	1
9	Electric block, used for overhauling of T4 Transfer Tower	MD1 electric block, hoisting weight:5t, lifting height:14m	F4281S-M0304-402	1

10	Chain block, used for overhauling of T4 Transfer Tower (contain trolley)	hoisting weight:3t, lifting height:9m	F4281S-M0304-402	1
11	Chain block, used for overhauling of T4 Transfer Tower (contain trolley)	hoisting weight:1t, lifting height:9m	F4281S-M0304-402	1
12	Electric single beam bridge crane, used for overhauling of T5 Transfer Tower	MD1 electric block, hoisting weight:10t, lifting height:12m span:5.0m	F4281S-M0305-405	1
13	Electric single beam overhang crane, used for overhauling of T5 Transfer Tower	MD1 electric block, hoisting weight:5t, lifting height:30m span:4.5m	F4281S-M0305-406	1
14	Electric block, used for overhauling of T5 Transfer Tower	MD1 electric block, hoisting weight:5t, lifting height:5m	F4281S-M0305-407	1
15	Electric block, used for overhauling of T5 Transfer Tower	MD1 electric block, hoisting weight:3t, lifting height:5m	F4281S-M0305-408	1
16	Chain block, used for overhauling of T5 Transfer Tower (contain trolley)	hoisting weight:2t, lifting height:9m	F4281S-M0305-409	1
17	Chain block, used for overhauling of T5 Transfer Tower (contain trolley)	hoisting weight:2t, lifting height:6m	F4281S-M0305-410	1
18	Electric block, used for overhauling of T6 Transfer Tower	MD1 electric block, hoisting weight:3t, lifting height:52m	F4281S-M0306	1
19	Chain block, used for overhauling of T6 Transfer Tower (contain trolley)	hoisting weight:2t, lifting height:9m	F4281S-M0306	1
20	Electric single beam bridge crane, used for overhauling of Sluicing Pump House	MD1 electric block, hoisting weight:3t, lifting height:12m span:12m	F4281S-T0332	1
21	Electric single beam bridge crane, used for overhauling of Coal Bulldozer House	MD1 electric block, hoisting weight:5t, lifting height:7m span:7m	F4281S-T0552	1
22	Electric block, used for overhauling of C7AB head in Bunker Bay	MD1 electric block, hoisting weight:3t, lifting height:6m	F4281S-M0406	1
23	Subtotal			22
<b>Ash and Slag Handling System</b>				
1	Electric block, used for overhauling of operation floor in Ash Silo	MD1 electric block, hoisting weight:1t, lifting height:11m	F4281S-C0205-301	3
2	Electric block, used for overhauling of Ash Silo Roof	MD1 electric block, hoisting weight:1t, lifting height:35m	F4281S-T0323	1
3	Electric block, used for overhauling of Ash Gasification Fan Room	MD1 electric block, hoisting weight:1t, lifting height:6m	F4281S-T0326	1

S/N	Description	Specification and model	Drawing No.	QTY
4	Electric single beam bridge crane, used for overhauling of Ash Handling Sluicing Pump House	MD1 electric block, hoisting weight:5t, lifting height:6m span:8m	F4281S-T0330	1
5	Electric block, used for overhauling of electrostatic precipitator gasified blower	MD1 electric block, hoisting weight:1t, lifting height:6m	F4281S-T0335	1
6	Electric block, used for overhauling of ash handling pump house	MD1 electric block, hoisting weight:1t, lifting height:8m	F4281S-T0335	2
7	Subtotal			9
<b>Demineralized Water Treatment System</b>				
1	Chain block, used for overhauling of pump house in Demineral Water Treatment Plant (contain trolley)	hoisting weight:2t, lifting height:5m	F4281S-H0202-433	1
2	Chain block, used for overhauling of Roots Blower house in Demineral Water Treatment Plant(contain trolley)	hoisting weight:1t, lifting height:5m	F4281S-H0202-432	1
3	Electric single beam bridge crane, used for overhauling of pump house in Demineral Water Treatment Plant	MD1 electric block, hoisting weight:2t, lifting height:9m span:9.5m	F4281S-H0202-434	1
4	Subtotal			3
<b>FGD System</b>				
1	Electric block, used for overhauling of FGD booster fan rotor	MD1 electric block, hoisting weight:15t, lifting height:15m	F4281S-P0301	2
2	Overhead travelling crane, used for overhauling of desulfurization booster fan motor	MD1 electric block, hoisting weight:35t, lifting height:12m double track, the distance between double track is tentatively fixed at	F4281S-P0301	2
3	Electric block, used for overhauling of GGH actuating device	MD1 electric block, hoisting weight:5t, lifting height:30m	F4281S-P0301	2
4	Electric block, used for overhauling of GGH heating element	MD1 electric block, hoisting weight:1t, lifting height:30m	F4281S-P0301	2
5	Electric block, used for overhauling of ECO anode plate	MD1 electric block, hoisting weight:2.5t, lifting height:14m	F4281S-P0301	2

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