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Fastener Receiving Inspection Checklist

39 acceptance items from three public, World Bank-funded tender specifications. Every item carries the clause it comes from.

39 acceptance items · **7 categories** · **3 tender sources** · **engineering practice marked separately**

Acceptance items

A · Certificates and documents

#	Acceptance item	Source clause
1	Manufacturer's Work Test Certificate is required for all materials.	KWSSIP Vol-II p134
2	The Project Manager may accept manufacturer's mill and laboratory certificates (discretion, not automatic acceptance).	KWSSIP Vol-II p169
3	Locally rolled material must be retested at a laboratory specified by the Project Manager.	KWSSIP Vol-II p134

B · Material grade and standard conformity

#	Acceptance item	Source clause
4	Structural steel base metal to ASTM A36; forgings A235, cast steel A27, cast iron A48.	KWSSIP Vol-II p129-p130
5	Ordinary bolts, anchor bolts, nuts and washers to ASTM A307.	KWSSIP Vol-II §e p130
6	High-strength bolts with nuts and washers: ASTM A325, AISI B18.2 dimensions, AISC A325/A490 installation.	KWSSIP Vol-II §f p130; p134
7	Dismantling joint studs, tie bars, nuts and washers: minimum Grade 8.8, zinc plated and passivated.	KWSSIP-2 K-IV Vol-III p170
8	Strainer fasteners in 316 stainless steel, minimum property class 70.	KWSSIP-2 K-IV Vol-III p191
9	Flange galvanic corrosion prevention: PTFE / phenolic insulating washers to ASTM D1710 plus thread tape.	KWSSIP-2 K-IV Vol-III p138
10	Applicable standards list: ASTM A123/A123M, A153, A325, A394.	MEPCO EDEIP S7 p102
11	Structural connection bolts and nuts to ISO 898-1 / ISO 898-2, minimum 6.8, DIN 7990 / DIN 555, minimum M16.	MEPCO EDEIP S7 p206
12	Washers to DIN 7989, galvanized steel or malleable iron, one washer per bolt.	MEPCO EDEIP S7 p207
13	Galvanized check nuts to DIN 7967 on all bolts.	MEPCO EDEIP S7 p208
14	Clamping screws: hot-dip galvanized class 8.8 or A2-F80 stainless, thread minimum 10 mm; aluminium screws not permitted.	MEPCO EDEIP S7 p220
15	CT structure bolts: hexagon grade 6.8 to ISO 898, one flat washer and one lock washer per nut.	MEPCO EDEIP S7 p311

C · Coating and surface condition

#	Acceptance item	Source clause
16	Galvanizing of steel plates and shapes to ASTM A123.	KWSSIP Vol-II §i p130; p132
17	Galvanizing of hardware (bolts, nuts, washers, lock nuts) to ASTM A153.	KWSSIP Vol-II p132
18	Galvanizing inspection to ASTM A90 - coating weight and uniformity.	KWSSIP Vol-II p134
19	Only minor galvanizing damage may be field-repaired, with three coats of zinc-rich paint.	KWSSIP Vol-II p132
20	Friction-type high-strength contact surfaces to remain uncoated; blast-cleaned roughness is a critical acceptance condition before installation.	KWSSIP Vol-II p133
21	Steelwork embedded in concrete: not painted, blast-cleaned and cement-washed.	KWSSIP Vol-II p133
22	All steel fixings (nuts, bolts, washers) galvanized to BS EN ISO 1461:2022 or an approved equivalent.	KWSSIP-2 K-IV Vol-III p124
23	Galvanized components to withstand 220 hours of salt spray per ASTM B117 with no corrosion failure.	KWSSIP-2 K-IV Vol-III p120
24	Outdoor fasteners above 10 mm hot-dip galvanized unless stainless; bolts above class 8.8 in corrosion-resistant material.	MEPCO EDEIP S7 p132
25	Structural steel hot-dip galvanized after fabrication to ASTM A123.	MEPCO EDEIP S7 p208
26	Bolts, nuts and washers galvanized to ASTM A153; assembly by finger pressure after galvanizing.	MEPCO EDEIP S7 p208
27	Spun-galvanized bolts; thread re-chasing after galvanizing is prohibited.	MEPCO EDEIP S7 p209

D · Dimensions and fit-up

#	Acceptance item	Source clause
28	Bolt hole centre distance not less than 3d; punching limited to plate thickness not exceeding bolt diameter plus 1/8 inch.	KWSSIP Vol-II p131-p132
29	Complete test assembly before galvanizing or painting; disassembly requires written approval.	KWSSIP Vol-II p133
30	Flange bolts sized so two full threads show past the nut when fully tightened (ASME B31.1 / B31.3).	KWSSIP-2 K-IV Vol-III p138
31	Minimum bolt spacing: 16 mm bolt - 40 mm; 20 mm bolt - 50 mm.	MEPCO EDEIP S7 p207

E · Installation and final acceptance

#	Acceptance item	Source clause
32	Final tightening of A325 bolts only after structural alignment is complete.	KWSSIP Vol-II §Alignment p134
33	Fixing bolts set with approved epoxy resin cartridges; fixing held in position until the resin cures.	KWSSIP-2 K-IV Vol-III p123-p124
34	Stubs and anchor bolts cast in during foundation construction; block-outs filled with non-shrink grout.	MEPCO EDEIP S7 p169
35	Tower bolt torque: 10-14 kgf·m for 16 mm bolts; 17-23 kgf·m for 20 / 24 / 30 mm bolts; lock nuts fitted after final tightening.	MEPCO EDEIP S7 p760
36	Tower acceptance: bolt type and tightness checked by the torque wrench method, including step-bolt condition.	MEPCO EDEIP S7 p770

F · Packing and protection

#	Acceptance item	Source clause
37	Machined surfaces not painted, protected with approved rust-preventive oil and wooden padding in transport.	KWSSIP Vol-II p133
38	Unassembled pins, keys and bolt threads greased and wrapped in moisture-proof paper.	KWSSIP Vol-II p133

G · Supply quantity and set definition

#	Acceptance item	Source clause
39	5% surplus supply of bolts, nuts, washers and check nuts.	MEPCO EDEIP S7 p207

Sources

1. KWSSIP Request for Bids — Plant, Vol-II Specifications (Karachi Water and Sewerage Services Improvement Project, G-1 package)
   https://www.kwssip.gos.pk/wp-content/uploads/2022/12/Vol-II-Specifications.pdf
2. KWSSIP-2 K-IV Augmentation Works (Laying of MS Pipelines, Lots 1-4), Vol-III Technical Specifications
   https://kwssip.gos.pk/wp-content/uploads/2026/08/Vol-III_Technical_Specifications-final.pdf
3. MEPCO EDEIP SPD-RFB-PK-MEPCO-560389-CW-RFB-Rev01, Section VII Employer Requirements (World Bank procurement notice OP00461490)
   https://drive.google.com/drive/folders/1KRK3VeJx_Kwdn3rYDszhQI6yfkEJrjw9

Engineering practice — not required by these specifications

- Packing marks and shipping marks: none of the three specifications states a marking requirement. Treat packing marks as engineering practice, not as a tender clause.
- NDT, PMI, EN 10204 3.1 / 3.2 certificate level and dimensional drawings: no clause in these three documents. Add them to the PO if the project needs them.
- Sampling plan (AQL, sample size, inspection frequency): not specified in any of the three documents. A sampling plan must come from your own quality procedure.

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