

Document Name:

- **Contractor Quality Control Plan for Steel Structure Construction**
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No.	Item description	CC	TPI	Owner
2.	Steel structure items			
2.1	Erection of structural steel			
2.1.1	Pre-installation check <ul style="list-style-type: none"> 1) Foundation and anchor bolts <ul style="list-style-type: none"> - Final dimension - Visual check 2) Welding <ul style="list-style-type: none"> - Welding procedure specs. - Welder performance qualification test - Proper fit-up, appearance and size of weld 3) Visual checks <ul style="list-style-type: none"> - Shape and size - Contact surface of joint and ensure - Sharp comers and burs are removed - Where Hi-strength bolts are required, ensure that they are being used - Base plates square with column - Bolts or fasteners - Shop erected to assure fit up (optional) 4) Identification of tagging, piece marking and match marking 	H		
2.1.2	Erection of structural <ul style="list-style-type: none"> 1) Visual check <ul style="list-style-type: none"> - Straighten the anchor bolts and clean threads - Leveling plate or grout pads in place and grouted - Anchor bolts size & spacing checked against column base plate - Bolts double-nutted - Bolt tightening - Installing bracing 2) Orientation 3) Location and position 	H		

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	4) Dimension			
	<ul style="list-style-type: none"> - Eccentricity - Base plate height and elevation - Tilt - Column & beam for plumb level, alignment and flanges - Sweep 			
2.1.3	High strength bolting <ul style="list-style-type: none"> 1) Torque control 2) Tightening high strength bolts 	H		
2.1.4	Welding <ul style="list-style-type: none"> 1) Welds for size, length and standards of workmanship - Contour and appearance of the weld surface - Surface defects - Craters, undercutting overlapping edges of welds - Cracks, etc. 2) Visual check 	H		
2.2	Fireproofing of structural steel			
2.2.1	<ul style="list-style-type: none"> 1) Cast-in-place concrete 2) Preparation of steel surface 3) Certificate of cement 4) Coarse aggregate 5) Slump test 6) Strength 7) Thickness 	H		
2.2.2	Cement mortar <ul style="list-style-type: none"> 1) Preparation of steel surface 2) Certificate of cement 3) Sand 4) Fixing of metal lath 5) Curing 6) Thickness 	H		

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2.2.3	Lightweight mortar 1) Preparation of steel surface 2) Fixing of metal lath 3) 3) Thickness	H		
2.2.4	Preformed board 1) Preparation of steel surface 2) Installation of performed board 3) Joint of board	H		
2.3	Painting of structural steel 1) Hot dip galvanized 2) Other that above 1) 3) (Refer to the section 9 painting)	H		

CC: Construction Contractor

TPI: Third Party Inspection

H: Hold Point; Hold on the production till TPI Inspector performs inspection and supervise the required test

If you want to use this draft for inspection and test plan you need to fill the TPI and Owner Column based your project requirement. You may use following abbreviation for filling the columns:

W: Witness Point; Manufacture shall notify client and TPI Inspector but there is no hold on the Construction;

R: Document Review; Review means Review document, which includes of material test certificates, test reports, records and etc.

A: Approval

SW: Spot Witness; for items with spot witness contractor shall notify TPI inspector as fulfilling the monitoring;