



Santa Maria WATER DISTRICT

SUPPLEMENTAL/ BID BULLETIN NO 2019-006

For the Project:

SUPPLY OF LABOR AND MATERIALS FOR THE CONSTRUCTION OF BRIDGE CROSSING FOR VARIOUS SMWD PROJECTS

Contract No. 2019-06-014-IF

In accordance with Section 22.5.2 of IRR of RA No. 9184, the SMWD-BAC is issuing this Supplemental/Bid Bulletin No. 2019-006 to present the Technical Specifications and Bill of Quantities of the project above stated:

Section VI. Technical Specifications

ELECTRONIC RESISTANCE WELDED BI (BLACK IRON) PIPE

This standard specifies the requirements for Electronic resistance welded black iron (BI) pipes with nominal outside diameter of 60.3mm to 610mm intended for the conveyance of potable water under pressure.

- (a) General - Electronic resistance welded black iron (BI) pipe materials and method of manufacture shall conform to ASTM A106 or API 5L Grade B - Schedule 40. The pipe shall conform with the specification specified in Table 1.

Table 1. Electronic resistance welded BI Specification Grade B Schedule 40

NOMINAL SIZE		OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT PLAIN ENDS		MAXIMUM TEST PRESSURE	
in.	mm	in	mm	in	mm	lb./ft.	kg/m	psi	kpa
4	100	4.500	114.3	0.237	6.02	10.80	16.07	2,210	15,200
6	150	6.625	168.3	0.280	7.11	18.99	28.26	1,780	12,300
12	300	12.750	323.8	0.374	9.50	53.57	79.70	1,340	9,200

- (b) Requirements – As prescribed by ASTM Standards, the chemical and tensile requirements for ERW Black Iron are as follows.

- (1) Mechanical Properties - The pipe shall conform with the mechanical properties Grade B specified in Table 2.

Table 2. Mechanical Properties

Yield Point	≥240MPa (35,000 psi)
Tensile Point	≥415 MPa (60,000 psi)
Elongation	17%-30%

- (2) Dimension Tolerance - The pipe shall conform with the dimension tolerance Grade B specified in Table 3.

Table 3. Dimension Tolerance

Weight	+10%, -3.5%
Outside Diameter	40mm and below: ±0.40mm 50mm and above: ±1%
Wall Thickness	±12.50%

- (3) Chemical Composition - The pipe shall conform with the chemical requirements ERW A106B specified in Table 4.