Figure S1. Weld penetration of hardfaced specimens: (a) S1, (b) S2, (c) H1 and (d) H1.

Figure S2. Microscopic result at HAZ of hardfacing welded specimens: (a) S1, (b) S2, (c) H1 and (d) H2.
Figure S3. Microscopic result at buffer of hardfacing welded specimens: (a) H1 and (b) H2.

Figure S4. Microscopic result at hardfacing of hardfacing welded specimens: (a) S1, (b) S2, (c) H1 and (d) H2.
Figure S5. The EDS spectrum of welded specimen at (a) base, (b) buffer and (c) hardfacing weld.