

PART 1 - GENERAL

1.1 DESCRIPTION

- .1 This section specifies requirements for supplying and placing rock scour protection for erosion protection at locations and to dimensions indicated on drawings or designated by Departmental Representative.

1.2 RELATED SECTIONS

- .1 Section 31 23 25 - Rock and Gravel Fill.

1.3 MEASUREMENT FOR PAYMENT

- .1 Rock scour protection: Supply and placement of rock scour protection , including the cost of all plant, labour, equipment, and materials required to complete the work as specified, will be measured by the cubic meter (CMPM). The volume of material will be determined in place from measurements taken prior to and at completion of the work.
- .2 Stone barricade: Supply and placement of stone barricade, including the cost of all plant, labour, equipment, and materials required to complete the work as specified, will be measured by the unit installed in place.

PART 2 - PRODUCTS

2.1 ROCK SCOUR PROTECTION

- .1 Hard, dense with relative density (specific gravity) not less than 2.65, durable quarry stone, free from seams, cracks or other structural defects.
- .2 Stones to be used as rock scour protection will weigh 200 kg (500 mm dia.).
- .3 Field stones of appropriate sizes are acceptable.

2.2 STONE BARRICADE

- .1 Hard, dense with relative density (specific gravity) not less than 2.65, durable quarry stone, free from seams, cracks or other structural defects.
- .2 Stones to be used as barricades will weigh not less than 1.5 tonne or more than 2.5 tonne (average diameter of 1 m).

PART 2 – PRODUCTS
(CONT'D)

2.2 STONE BARRICADE
(CONT'D)

- .3 Field stones of appropriate sizes are acceptable.

PART 3 - EXECUTION

3.1 PLACING

- .1 Place rock scour protection as directed to thickness and details indicated on drawings or as designated by Departmental Representative. Place rock scour protection as soon as practicable after placement of cribs or after placement of underlying rock mattress or rock fill material.
- .2 Where scour protection is to be placed on slopes, ensure that fill is placed to the slopes as indicated on the drawings.
- .3 Fine grade area to be protected to uniform even surface. Fill depressions with suitable material and compact to provide firm bed.
- .4 Place stones in manner approved by Departmental Representative to secure surface and a stable mass. Place larger stones at bottom of slopes.
- .5 Hand Placing:
 - .1 Use larger stones for lower courses and as headers for subsequent courses.
 - .2 Stagger vertical joints and fill voids with rock spalls or cobbles.
 - .3 Finish surface evenly, free of large openings and neat in appearance.
- .6 Rock scour shall be carefully hand-laid to give a thickness perpendicular to slope as indicated on drawings.
- .7 Machine place stone barricades in locations as shown on the drawings, and in a manner approved by the Departmental Representative.
- .8 Top elevation of new scour installed along the new wharf face. Shall not be less than -4.5 m in elevation.