SOLUTION ABOUT JADOR

1)

One load is 10 bags

Time of turn and back 4 mm (3+1 mm) so 15 movements of crane per hour

Working time : 11 hours per shift i.e. 82.5 t per shift et per hold

Work in 2 shifts and 3 holds means = x 6 = 495 t per day

Time of loading is so 4,950 t / 495 t = 10 days

With a starting date on Friday 13th December at 8 am : 8 working days and 2 holidays means ending of operations on 23rd December at 8 am

Ship speed : 14 knots, i.e. 14 miles per hour with total distance 3,725 miles

3,725 miles / 14 miles = 266 hours, means slightly more than 11 sailing days

So 23 december + 11 sailing days : ETA 3 january between 8 am and 10 am at Marseilles

2)

Cost is

Average cost of a stevedore

6750 CFA (working days) x 8 days x2 shifts x 14 stevedores x 3 holds = 4,536,000 CFA

8500 CFA (holidays) x 2 days x 2 shifts x 14 stevedores x 3 holds   = 1,428,000 CFA

Crane rent of 6 t capacity

6900 CFA x 24 hours x 10 days x 3 holds =4,968,000 CFA

Crane driver cost

17,000 CFA (working days) x 8 days x 2 shifts x 3 cranes = 816,000 CFA

22,500 CFA (holidays) x 2 days x 2 shifts x 3 cranes = 270,000 CFA

Unloading within the port

475 CFA per t x 4,950 t = 2,970,000 CFA

Port Handling cost : 600 x 4,950 = 2 970 000 CFA

Total amount is 17,339,250 CFA

3)

The crane break in hold no 3 means loss of 2 full shifts, i.e. 24 hours delay amount of :

6,750 CFA (working days) x 1 day x 2 shifts x 14 stevedores = 189,000 CFA

17,000 CFA x 1 day x 2 shifts = 34,000 CFA

Total amount is 388,600 CFA

Handling port ….

4)

Loading cost at the end is 10 days + 1 unforeseeable day = 11 days

Surestaries cost are (11 days – 4 days) x 17000 US $ = 119,000 US $ in CFA is 59,500,000

And margin of 20% x 17,339,250 CFA = 3,467,850 CFA

So meaning that contract conditions are not suitable for breakbulk load and have to be negotiate **first**