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| Rehabilitations of Nutrition Center under WFP-FFA project in Birsaleeba village Serba locality west Darfur state.Note: local material will be provided by community, also casual daily workers will be the community.(exclude it) |
| 1. 4 x 12 shelter with local material roof.
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| 1.1 | Remove the local roof of 12 x 4 m shelter & build 1 & 1.5 m one red burnt block above the old walls use cement-sand mortar 1:8 and plaster the new built walls , benches and repair old, damaged areas use same ratio of mixing as codes and instruction of CRS engineer. | M2 | 29 |  |  |  |
| 1.2 | Use old circular pipes as poles and prepare it to for truss installation. work include removing and cutting and welding as guided by CRS engineer. | job | 1 |  |  |  |
| 1.3 | Supply and fabricate trusses use 2 inches angles 3mm thickness the vertical elements C/C spacing is 70 cm & use 4 x 8 cm rectangular hollow section and purlins and install 0.35 grade corrugated zinc sheets. C/C space of purlins should not exist one meter. | M2 | 48 |  |  |  |
| 1.4 | Supply and cast 50 cm wide terrace around the building the surface should be made of plain concrete 5 cm thickness. follow the instruction of CRS engineer. | ML | 32 |  |  |  |
| 1.5 | Supply and fix steel grills 1.5 x 2 m cover the above area for 50 cm with steel sheet 0.9 mm and the bottom by x-pended mesh. The frame should be made of 1.5 inches angle 3 mm thickness.  | No | 3 |  |  |  |
| 1.6 | Supply and paint the shelter in/outside use 3 coats of ‘El mohandis’ pomastic. | M2 | 184 |  |  |  |
| Sub-total  |  |
| 1. 4 x 8 m shelter with zinc sheets roof
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| 2.1 | Remove the roof, old poles and replace with new 4 x 8 m 1mm thickness rectangular hollow section make 2 m C/C spacing for the pole and 1m for the purlins use the old zinc sheets. The pole should be fixed to ground for 50 cm use 1:2:4 concrete mix. Follow the instruction of CRS engineer. | M2 | 32 |  |  |  |
| 2.2 | Repair the exist wall and build additional layer which the east & west side should be totally constructed, and the other sides should include 4 windows 2 x 1m. in both sides USE 1:8 cement – sand mix. The widows should be made of 1.5 inches 3mm thickness angle and x-pended mesh. | Job | 1 |  |  |  |
| 2.3 | Supply and plaster the wall in/outside for new work and old work, if necessary, use 1:8 cement-sands mix. | M2 | 56 |  |  |  |
| 2.4 | Supply & cast 3 coat3 of “Elmohandis” pomastic paint inside and outside the wall of the shelter. | M2 | 72 |  |  |  |
| Sub-total  |  |
| 1. The office and store
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| 3.1 | Supply & cast 0.9 m terrace behind the office and store use 1:3:6 concrete mix, the surface should be 5 cm with smooth finish and must be slopy to assist in drainage and well plastered. | M2 | 8 |  |  |  |
| 3.2 | Repair old terrace surface and sides as the guidance of CRS engineer. | M2 | 12 |  |  |  |
| 3.4 | Review the doors and windows and fix all crashed areas, locks ..ext. and renew the painting. Fix the cracks on walls , ground slabs. | Job  | 1 |  |  |  |
| 3.5 | Supply & renew the painting of the office and store in/outside of 3 coats of “ELmohandis” pomastic. Work should include cleaning and repairing all cracks. As codes and CRS engineer instructions. | M2 | 165 |  |  |  |
| Sub-total |  |
| Grand total |  |