

SUMMARY OF QUANTITIES AND SCOPE OF WORK

PROJECT : Proposed Construction of DPWH Standard "Odette" Temporary Resettlement Housing

SCOPE OF WORK	UNIT	QUANTITY
Ten (10) Units Resettlement Housing		
A.) STRUCTURAL WORKS:		
I. EARTHWORKS:		
1.) Structure Excavation	m ³	38
2.) Gravel Fill	m ³	40
3.) Back Fill	m ³	369
4.) Soil Poisoning	m ²	310
II. CONCRETE WORKS:		
A. Concrete:		
1.) 17.5 Mpa/2,500psi (Slab on Fill)	m ³	31
2.) 21 Mpa/3,000psi	m ³	50
B. Reinforcing Bars:		
1.) 275 Mpa/40,000psi (16mm dia. & Higher)	kgs	6,679
2.) 230 Mpa/33,000psi (below 16mm)	kgs	8,173
C. Formworks: (full contact area/1-use)	m ²	462
III. ROOF FRAMING:		
1.) 16mm Ø Cross Bracing w/ Turnbuckle	li.m.	142
2.) 100mm x 100mm 10mm thk Steel w/ 18mm Ø Holes	pcs	40
3.) 10mm Ø Sagrods with Std nuts and Washers	li.m.	81
4.) Purlins, LC 125x50x20x3mm	li.m.	580
5.) Rafters, W8 x 18	li.m.	161
6.) Base Plate, 200x300x10mm	pcs	40
7.) Anchor Bolts, 16mm Ø x 300mm Long	pcs	160
8.) Leveling Grout 25mm	m ³	3
9.) Connector Steel Plate, 125 x 125 x 75 x 6mm	pcs	280
10.) Machine Bolts, 6mm Ø x 40mm w/ std nuts and washers	pcs	1680
B.) ARCHITECTURAL WORKS		
I. CEILING:		
1.) (CF-1): 4.5mm thk. Fiber Cement Board on Metal Frame	m ²	240
1.) (CF-2): 4.5mm thk. Fiber Cement Board on Metal Frame (Provide Wooden Ceiling Ventilation)	m ²	48
II. FABRICATED MATERIALS:		
1.) Doors/Windows (Refer to plans for schedule and quantities)	lot	1
III. WALL/PARTITIONS:		
1.) 150mm thk. CHB Walls (Including rebars/mortar) with 1.5 Hour Fire-Resistive Rating	m ²	270

2.) 150mm thk. CHB Walls (Including rebars/mortar)	m ²	111
3.) 100mm thk. CHB Walls (Including rebars/mortar)	m ²	70
4.) 12mm thk. Gypsum Bd. (Dry Wall) on 50x100 Aluminum Metal Studs Frame	m ²	132
IV. WALL/FLOOR FINISHES:		
1.) Plain Cement Plaster Wall Finish	m ²	963
2.) 300 x 300mm Vitrified Glazed Tile Wall Finish	m ²	112
3.) Plain Cement Floor Finish (Provide Floor Hardener)	m ²	252
4.) 300 x 300mm Vitrified Unglazed Tile Floor Finish (Provide Floor Hardener)	m ²	26
V. PAINTING WORKS:		
1.) Dry Wall (Gypsum Board)	m ²	264
2.) Concrete Wall	m ²	963
3.) Ceiling (Fiber Cement Bd.)	m ²	288
VI. ROOFING:		
1.) 0.40mm thk. Corr. GI Roofing	m ²	300
2.) Wall Flashing, 0.50mm thk. Pre-painted GI	lin.m	150
3.) Pre-painted Metal Gutter	lin.m	40
4.) GI Fascia, 0.50mm thk. Pre-painted	lin.m	80
5.) 0.50mm thk. Pre-painted GI Parapet Cap	lin.m	97
6.) 6mm thk. Bubble Type Flexible Thermal Insulation with 2-Sided Aluminum Foil	m ²	300
C.) SANITARY/PLUMBING WORKS		
I. STORM DRAINAGE SYSTEM:		
1. PVC Pipes 100mmØ	pc	23
2. PVC Elbow 100mmØ	pc	30
3. PVC Coupling 100mmØ	pc	20
II. SEWER AND VENTS		
1. 100 mm Ø PVC Pipe	pc	44
2. 50 mm Ø PVC Pipe	pc	110
3. 100 mm 1/8 Bend Long Sweep Elbow	pc	25
4. 50 mm 1/8 Bend Long Sweep Elbow	pc	49
5. 100 mm Coupling	pc	54
6. 50 mm Coupling	pc	110
7. 100 mm Clean Out Cover	pc	25
8. 50 mm Clean Out Cover	pc	13
9. 100 mm Wye	pc	25
10. 50 mm Wye	pc	13
11. 100 mm x 50 mm Reducer Wye	pc	45
12. 50 mm x ¼ Bend Elbow	pc	45
13. 50 mm Plain Tee	pc	45
III. WATER LINE		
1. 25 mm Ø PPRC Pipe	pc	18
2. 20 mm Ø PPRC Pipe	pc	70
3. 25 mm Plain Tee	pc	12
4. 20 mm Plain Tee	pc	39
5. 25 mm ¼ Bend Elbow	pc	6
6. 20 mm ¼ Bend Elbow	pc	39
7. 20 mm Female Elbow	pc	60
8. 25 mm Coupling	pc	16

9. 20 mm Coupling	pc	40
IV. FIXTURES AND ACCESSORIES		
1. Water Closet W/ Fitting & Accessories	set	10
2. Floor Drain Strainer	set	20
3. Lavatory With P.Trap & Accessories	set	10
4. Stainless Steel Mesh Screen Protection	set	10
5. Gate Valve	set	10
6. Shower W/ Fittings & Accessories	set	10
7. Kitchen Sink	set	10
8. Roof Drain Cover	pc	10
V. CATCH BASIN:		
1. Excavation	m ³	1.15
2. Concrete	m ³	0.2
3. Rebars	kg	24
4. CHB, 100mm thk. With Mortar & Rebars	m ²	10.6
VI. SEPTIC VAULT:		
1. Excavation	m ³	10
2. Gravel Fill	m ³	0.45
3. Concrete	m ³	4.35
4. Rebars	kg	621
5. Formworks (1-use)	m ²	41
D.) ELECTRICAL WORKS:		
I. CONDUIT WORKS:		
1. 20MMØ X 3 M PVC	LNGTH	185
2. 15MMØ X 3 M RSC	LNGTH	100
3. 50MMØ X 3 M RSC	LNGTH	15
4. 15MMØ FLEXIBLE METAL CONDUIT	ROLL	1
5. MICA TUBE	MTS	15
6. METAL OCTAGONAL/JUNCTION BOX 102MM X 102MM X 54 MM DEEP WITH PLATE COVER	PCS	70
7. METAL UTILITY BOX 50MM X 102MM X 54MM DEEP	PCS	100
8. COPPERCLAD GROUNDING ROD, 20MMØ X 2400MM	PC	11
9. 50MMØ X 90° TYPE "F" CONDULET	PC	1
9. G.I. WIRE	KG	1
10.CONSUMABLES	LOT	1
II. WIRES AND WIRING DEVICES		
3.5mm ² THHN (150m/roll)	ROLLS	11
5.5mm ² THHN	MTS	500
14mm ² THHN	MTS	45
50mm ² THHN	MTS	90
DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15AMPS, 250V.	SETS	40
SPECIAL PURPOSE OUTLET, FLOOR MOUNTED, 20AMPS, 250V.	SETS	10
SINGLE POLE WALL SWITCH IN ONE SWITCH PLATE, 15AMP., 250V.	SETS	30
THREE (3) SINGLE POLE WALL SWITCH IN ONE SWITCH PLATE, 15AMP.,	SETS	10
III. SCHEDULE OF LIGHTING FIXTURES AND LAMPS		
ONE (1) 12WATTS, 230V, 60Hz AC, LIGHT EMITTING DIODE (LED) LIGHT	SET	60
IV. PANELBOARD AND OTHER OVERCURRENT DEVICES		

1. MAIN DISTRIBUTION PANELBOARD "MDP" MAIN CIRCUIT BREAKER RATING: 225AF, 150AT, 2P, 250V BOLT-ON TYPE CIRCUIT BREAKER IN NEMA-3R ENCLOSURE BRANCHES: 11- 50 AF, 30 AT, 2P, 250 V 1- 50 AF, 20 AT, 2P, 250 V	SET	1
2. DISTRIBUTION PANELBOARD "DPU1" TYPICAL TO "DPU2"-"DPU10" MAIN CIRCUIT BREAKER RATING: 50AF, 30AT, 2P, 250V BOLT-ON TYPE CIRCUIT BREAKER IN NEMA-1 BRANCHES: 4- 50 AF, 20 AT, 2P, 250 V	SETS	10
3. ENCLOSED CIRCUIT BREAKER 225AF, 150AT, 2P, 250V BOLT-ON TYPE CIRCUIT BREAKER IN NEMA-3R ENCLOSURE	SET	1
4. MANUAL TRANSFER SWITCH "MTS", 150 AMPS, 2PDT, 250V, WITH 150 AT, 3P, BREAKER TYPE	SET	1
E.) MECHANICAL WORKS:		
I. WATER PUMPING SYSTEM		
1. SP 3.00Hp End-Suction Centrifugal Water Pump with capacity of 40GPM and 56-62m (183-203ft) TDH. 3500rpm, (2.24KW), 220V/1Ph/60Hz	set	1
2. Stainless Steel Overhead Water Tank (1,200USGal / 5,452L),Electrodes, Valves, Pipes and fittings and connections,Headers fabrications of steel works support	set	2
3. 75mmø B.I. Pipe Sch.40	lm	2
4. 50mmø B.I. Pipe Sch.40	lm	4
5. Gate Valves, Check Valves, Tees and Elbow and all necessary accessories.	lot	1
II. EMERGENCY POWER SYSTEM		
1. 40KVA Generator Set (Sound Proof Type), 3ø 1500rpm 230V 60Hz with diesel engine capacity of 240Kw.	set	1
III. STRUCTURAL ITEMS:		
A. EARTHWORKS:		
1.) Structure Excavation	m ³	1.4
2.) Gravel Fill	m ³	0.2
3.) Back Fill	m ³	1
B. CONCRETE WORKS:		
a. Concrete:		
1.) 21 Mpa/3,000psi	m ³	1
b. Reinforcing Bars:		
1.) 275 Mpa/40,000psi (16mm dia. & Higher)	kgs	109
2.) 230 Mpa/33,000psi (below 16mm)	kgs	124
c. Formworks: (full contact area/1-use)	m ²	8
C. WATER TANK FRAMING:		
1.) Angle bar L100x100x6mm	kgs	920
2.) Angle bar 2L100x100x6mm	kgs	697

3.) Anchor Bolts 16mm $\varnothing$ x 300mm with Standard nuts and Washers	pcs	16
4.) Concrete Leveler 25mm	m ³	0.03
5.) Base Plate 300 x 300 x 16mm	kgs	45
6.) Checkered Plate 6mm	kgs	453
7.) Angle bar L38x38x4mm	kgs	48
8.) GI Pipe 1 - 1/2" $\varnothing$	li.m.	60

Materials Recovery Facility (MRF)

A.) STRUCTURAL WORKS:

I. EARTHWORKS:

1.) Structure Excavation	m ³	8
2.) Gravel Fill	m ³	4
3.) Back Fill	m ³	3
4.) Soil Poisoning	m ²	20

II. CONCRETE WORKS:

A. Concrete:

1.) 17.5 Mpa/2,500psi (Slab on Fill)	m ³	2
2.) 21 Mpa/3,000psi	m ³	7

B. Reinforcing Bars:

1.) 275 Mpa/40,000psi (16mm dia. & Higher)	kgs	288
2.) 230 Mpa/33,000psi (below 16mm)	kgs	296

C. Formworks: (full contact area/1-use)

	m ²	37
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III. MISCELANEOUS:

A. Main Framing

1.) Roof Beam, W6 x 12	li.m.	18
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B. Roof Framing

1.) Purlins, LC 150x75x20x3mm	li.m.	50
2.) 10mm $\varnothing$ Sagrods with Std nuts and Washers	li.m.	5
3.) Base Plate, 150x400x10mm	pcs	4
4.) Anchor Bolts, 16mm $\varnothing$	pcs	16
5.) Rafters, W6 x 12	li.m.	8
6.) Connector Steel Plate, 125 x 125 x 50 x 6mm	pcs	280
7.) Machine Bolts, 6mm $\varnothing$ x 40mm w/ std nuts and washers	pcs	1120

B.) ARCHITECTURAL WORKS:

I. FLOORING:

1.) Plain Cement Plastered Finish	m ²	20
2.) Floor Hardener	m ²	20

II. MASONRY WORKS:

1.) CHB Wall 150 with rebar framing	m ²	68
2.) CHB Wall 100 with rebar framing	m ²	30
3.) Exterior Cement Plaster	m ²	68
4.) Interior Cement Plaster	m ²	30

III. PAINTING WORKS:

1.) Paint to Masonry	m ²	195
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IV. OPENINGS:

1.) D-1 Louver Steel Door W1000 x H2150 with Jamb and Complete Hardware and Accessories	units	6
2.) W-1 Stainless Steel Wire Mesh Screen W2000 x H600 with Tubular Frame	units	2

3.) W-2 Stainless Steel Wire Mesh Screen W4183 x H250 with Tubular Frame	units	1
V. ROOFING:		
1.) 0.40mm thk Corrugated GI Sheet Roofing with paint	m ²	32
2.) J-Bolt	lot	1
C.) ELECTRICAL WORKS:		
I. CONDUIT WORKS:		
1. 20MMØ X 3 M PVC	LNGTH	18
2. 15MMØ FLEXIBLE METAL CONDUIT	MTS	10
3. MICA TUBE	MTS	5
4. METAL OCTAGONAL/JUNCTION BOX 102MM X 102MM X 54 MM DEEP WITH PLATE COVER	PCS	10
5. METAL UTILITY BOX 50MM X 102MM X 54MM DEEP	PCS	5
6. CONSUMABLES	LOT	1
II. WIRES AND WIRING DEVICES		
1. 3.5mm ² THHN (150m/roll)	ROLL	1
2. 5.5mm ² THHN (150m/roll)	MTS	100
3. TWO (2) SINGLE POLE WALL SWITCH IN ONE SWITCH PLATE, 15AMP., 250V.	SETS	3
III. SCHEDULE OF LIGHTING FIXTURES AND LAMPS		
1. ONE (1) 12WATTS, 230V, 60Hz AC, LIGHT EMITTING DIODE (LED) LIGHT BULB	SET	6
IV. PANELBOARD AND OTHER OVERCURRENT DEVICES		
1. 50AF, 30AT, 2P, 250V BOLT-ON TYPE CIRCUIT BREAKER IN NEMA-3R ENCLOSURE	SET	1
2. 50AF, 20AT, 2P, 250V BOLT-ON TYPE CIRCUIT BREAKER IN NEMA-3R ENCLOSURE	SET	1

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