### CONSTRUCTION OF SOIL AND WATER CONSERVATION STRUCTURES LOT 1: DOHO & NGENGE IRRIGATION SCHEMES IN BUTALEJA AND KWEEN DISTRICTS BILL OF QUANTITIES

### **SUMMARY PAGE**

SITE	AMOUNT
BILL NO. 1: PRELIMINARY AND GENERAL ITEMS	
BILL NO. 2: NGENGE SCHEME	
BILL NO. 3: DOHO SCHEME	
BILL NO. 4: DAY WORKS	
SUB IOTAL I	
CONTINGENCY 10%	
SUB TOTAL 2	
18% VAT	
GRAND TOTAL	

Amount in Words: .....

### BILL NO. 1: PRELIMINARY AND GENERAL ITEMS

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1	Contractual Requirement				
1.1.1	Performance Security	Sum	1		
1.1.2	Insurance of the works	Sum	1		
1.1.3	Third party insurance	Sum	1		
1.1.4	Insurance of the contractor's equipment	Sum	1		
1.1.4	Insurance for accident or injury to workmen.	Sum	1		
1.2	Equipment for use by the Engineer's staff				
1.2.1	Use of Contractor's Survey Equipment by Engineer during construction period	Month	12		
1.3 1.3.1	<b>Provisional Sums</b> Access Roads to Site Materials, Borrow Pits and Dam site.	Km	30		
1.3.2 1.3.3	Diversion/control of water from site during earth works construction	Sum	1		
1.4 1.4.1	<b>Laboratory Tests</b> Provisional sum for Geo-Technical investigation to confirm design bearing capacity and soil properties	Psum	2	150,000,000	300,000,000
1.4.2	Provisional sum for concrete and soil testing to be carried out in accordance with the specification	Psum	1	20,000,000	20,000,000
1.4.3	In-situ density using the sand replacement method done to BS 1377:1975 of the compacted dam fill	Nr	50		
1.4.4	Moisture Content Done to Specification in Contract Document	Nr	75		
1.4.5	Permeability All tests done to BS 5930, 1981.				
	Use of constant head permeameter for fine and coarse grained soils	Nr	75		
1.4.6	Compaction Standard compaction tests by proctor Use of a 2.5kg rammer to BS 1377 Use of a 4.5kg rammer to BS 1377	Nr Nr	75 75		
1.4.7	Sieve Analysis	Nr	75		
1.4.8	Comprehensive Strength tests	Nr	50		
1.4.9	Slump Tests	Nr	50		
<b>1.5</b> 1.5.1	<b>Material Tests from Borrow Pits</b> Testing Murram from different Borrow Pits	Nr	20		
1.5.2	Testing of sand	Nr	20		

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1.5.4	Testing aggregates	Nr	20		
1.5.3	Testing clay Borrow Pits	Nr	20		
1.5.2	resting of sand	111	20		

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>1.6</b> 1.6.1	<b>Sign Boards</b> Supply, install and maintain Signboard during the Construction period.	Nr	4		
1.7	Method Related Charges				
1.7.1	Allow for contractor's mobilisation and demobilisation	Sum	1		
1.7.2	Prepare ''AS Builtt'' Drawings.	Sum	1		
1.7.3	Site Handover (Provisional Sum)	PSum	2	25,000,000	50,000,000
1.7.4	Contract administration and Supervision (Provisional sum)	Month	12	25,000,000	300,000,000
1.7.4	District counterpart facilitation (Provisional sum)	Month	12	10,000,000	120,000,000
1.7.5	Defects liability/Post constuction inspection/supervision (Provisional sum)	Month	6	5,000,000	30,000,000
1.7.6	Technical Commissioning (provisional sum)	PSum	1	50,000,000	50,000,000
1.7.7	Provide office, office furniture and office equipment for supervisor's representative	PSum	1	15,000,000	15,000,000
1.7.8	Maintenance of office, office furniture and office equipment for	PSum	1	12,000,000	12,000,000
1.7.9	Provisional sum for rated residential facilities for the Engineers staff	Month	12	4,000,000	48,000,000
1.7.10	Provision sum for maitainance of residential facilities for Engineer's	Month	12	2,000,000	24,000,000
1.7.11	Provision sum for establishment of communication and dedicated	Sum	1	5,000,000	5,000,000
1.7.12	Provision sum for maitanance of the communication and dedicated	Month	12	500,000	6,000,000
1.7.12	Provision sum for Engineer's transport expenses during construction	Month	12	12 600 000	162 200 000
1.7.13	period (fuel and vehicle maintenance) Percentage adjustment to provisional sum for Contractor's handling charges above	%	12	13,000,000	103,200,000
1.8	ENVIRONMENTAL, SOCIAL, HEALTH & SAFETY ACTIVITIES				
1.8.1	Environmental & Social Protection / Mitigation Actvities				
1.8.2	Develop and operationalize a strict recruitment plan and code of conduct for employees and workers; Develop a communication and sensitization plan for employees, workers and general public about HIV/AIDS, accident prevention, child abuse and gender-based violence including the use of IEC material.	sum	1		
1.8.3	Develop and implement a vegetation cover and drainage management plan for all sites where excavation and landfill will take place to prevent soil erosion and degradation.	sum	1		
1.8.4	Installation of silencers / sound attenuation canopies for equipment that emit excessive noise. Installation and maintenance of noise measuring equipment to measure the level of noise at specific sites during noise generating activities. Ensure availability of earmuffs at the site for worker and visitors.	sum	1		
1.8.5	Sprinkle water on all excavated sites and dusty vehicle pathways and limit vehicle speeds. Provide tarpaulin covers for vehicles while hauling dust generating materials. Provide dust masks for all workers and visitors, as required during the project period, monitor air quality around project site and keep records	sum	1		
1.8.6	Provisions of nose and mouth masks for worker operation near exhaust fumes generating equipment.	sum	1		
TOTAL	CARRIED TO COLLECTION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>	>>>>>>	>>	

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.8.7	Acquire approvals for borrow pits, sand and aggregate mines, dumping sites by the relevant authorities. Prepare, acquire approval and implement the site management plan	sum	1		
1.8.8.	Prepare and acquire approval and implement site waste management plan.	sum	1		
1.8.9	Prepare and acquire approval and implement site human waste management plan. Sensitize workers about the dangers of open defecation. Sensitize workers about proper toilet use and	sum	1		
1.8.10	Prepare and acquire approval and implement site accident management plan. Undertake site safety training for all workers regularly. Purchase and ensure workers and visitors wear all the necessary PPE (e.g nose masks, ear muffs, heavy duty shoes, heavy duty gloves, reflector jackets, helmets, eye gaggles, life jackets) at all times while on the sites.	sum	1		
1.8.11	Preparation of Campsite project brief and Contractor's Environmental and Social Management Plan and acquiring NEMA approvals	sum	1		
1.9	Health and Safety Protection / Mitigation Activities				
1.9.1	Store and dispose off hazardous wastes and raw material (e.g.fuel or chemicals) - storage of hydrocarbons (disposal charge per quarter)	sum	1		
1.9.2	Confine access to restricted work sites (including hoarding, hiring of	sum	1		
1.9.3	Preparation, approval and implementation of the Traffic Management Plan (TMP)	sum	1		
1.9.4	Preparation, approval and implementation of Fire Management Plan	sum	1		
1.9.5	Installation of a fully equiped first aid room	sum	1		
1.9.6	Hire of a trained Nurse for the duration of the project	sum	1		
1.9.7	Signing of an MOU with a referral hospital to provide ambulance services and handling severe cases /emergencies	sum	1		
1.9.8	Purchase and maintenance of drinking water dispensers	sum	1		
1.9.9	Installation and maintenance of hand washing facilities with soap and water at all project sites	sum	1		

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### CONSTRUCTION OF SOIL AND WATER CONSERVATION STRUCTURES NGENGE IRRIGATION SCHEME IN KWEEN DISTRICT BILL OF QUANTITIES

### **SUMMARY PAGE - BILL ITEM NO. 2**

ITEM	AMOUNT
BILL NO. 2.1: RIVER TRAINING WORKS	
BILL NO. 2.2: FLOOD PROTECTION WORKS - NGENGE RIVER	
BILL NO.2.3: FLOOD PROTECTION WORKS - KABAGIRA RIVER	
BILL NO. 2.4: ROAD CROSSING BOX CULVERT STRUCTURE	
SUB-TOTAL 2 CARRIED TO SUMMARY PAGE	

## BILL NO. 2: NGENGE IRRIGATION SCHEME IN BUTALEJA DISTRICT

### **BILL NO. 2.1: RIVER TRAINING WORKS**

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>2.1.1</b> 2.1.1.1	<b>Clearing and stripping</b> Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m awav	m²	30,000		
2.1.2	Excavation				
2.1.2.1	Excavate of ordinary soil to main canal to formation level on completion and disposal of surplus in spoil tips including placing up to 500m awav	m³	14,400		
2.1.3	Concrete works				
2.1.3.1	500mm thick hardcore blanket with max diam 400mm	m³	102		
2.1.3.2	Blinding Concrete Class C-20, 75mm thick cover the channel bed and sides as per drawing	m²	235		
2.1.3.3	Reinforced concrete Class C-30 vibrated both in the base and stems of the RC structure	m <sup>3</sup>	28		
2.1.3.4	Iron mesh under the concrete as per the drawing	m²	235		
2.1.4	Form work				
2.1.4.1	To provide cut and fix in position smooth finish form work to masonry coping	m²	400		
2.1.5	Reinforcement bars				
2.1.5.1	Provide, cut, bend and fix in position reinforcement steel bar to				
2.1.5.2	10mm diameter	kg	1,200		
2.1.5.3	12mm diameter	kg	1,250		
2.1.5.4	16mm diameter	kg	1,250		
2.1.6	River Dredging				
2.1.6.1	River Dredging, Widening and Shaping	m <sup>3</sup>	28,800		
2.1.7	Fill of discontinued channel/ river sections				
2.1.7.1	Compacted fill with selected material obtained from excavated borrow pits and transported soil	m <sup>3</sup>	1,440		
2.1.8	<b>Gabion works</b> Gabion baskets must be of 3mm woven wire mesh; PVC coated				
2.1.8.1	Reinstate washed away sections of river bank by compacting suitable material to sufficient degree and finishing to smooth slope to receive gabion boxes	m³	176		
2.1.8.2	Supply and build gabion boxes and fill with selected rock material to sides of banks at all bends in river course and backfill to level surface. Gabion baskets must be of 3mm woven wire mesh: PVC coated Gabion baskets shall be 2 x1 x 1 and 3mm woven wire mesh; PVC coated	m³	620		
2.1.8.4	Supply and install gabion mattresses of $4 \ge 2 \ge 0.3$ m filled with selected rock material	m²	172		
TOTAL	CARRIED TO SUMMARY >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	·>>>>>	>>>>>>>>	>>>>>>	

## BILL NO. 2.2: FLOOD PROTECTION WORKS - NGENGE RIVER

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.2.1	Flood Protection Dyke				
2.2.1.1	Clearing and stripping of along the dyke to formation level on completion and disposal of surplus in spoil tips including placing up to 500m awav	m <sup>2</sup>	38,636		
2.2.2	Earthworks				
2.2.2.1	Obtain excavated material from borrow areas at a distance 10km and place as compacted fill in layers 200 mm (to 95% MDD ASHTO) to form embankment including trimming and shaping compaction as per drawing and proctor test as directed. The rate should include all costs related to borrow material (establishment, access, transportation and rainstatement)	m <sup>3</sup>	15,000		
2.2.3	Grass protective layer		-		
<b>2.2.3</b> 2.2.2.1	Grass protective layer Prepare embankment surface (including provision of black soil and manure), plant fast growing paspalum species (or similar as approved by engineer), provide care to maturity (at least 6 months)	m²	-		

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### BILL NO.2.3: FLOOD PROTECTION WORKS - KABAGIRA RIVER

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.3.1	Earth work				
2.3.1.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m²	4800		
2.3.1.2	Excavate of ordinary soil to main canal to formation level on completion and disposal of surplus in spoil tips including	m³	4800		
2.3.1.3	Compacted fill with selected material obtained from excavated borrow pits and transported soil to culvert working space	m³	480		
2.3.2	Structural work				
	Stone masonary work				
2.3.2.1	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m³	60		
	Form work				
2.3.2.2	To provide cut and fix in position smooth finish form work to masonry coping	m²	200		
	Concrete work				
2.3.2.4	500mm thick hardcore blanket with max diam 400mm	m3	480		
2.3.2.5	Blinding Concrete Class C-20, 75mm thick cover the channel bed and sides as per drawing	m2	170		
2.3.2.6	Reinforced concrete Class C-30 vibrated both in the base and	m3	225		
2.3.2.7	Iron mesh under the concrete as per the drawing	m2	170		
	Reinforcement bars				
2.3.2.8	Provide, cut, bend and fix in position reinforcement steel bar to tube and control box				
(a)	10mm diameter	kg	2,204		
(b)	12mm diameter	kg	1,100		
2.3.3	Dyke				
2.3.3.1	Obtain excavated material from borrow areas at a distance 10km and place as compacted fill in layers 200 mm (to 95% MDD ASHTO) to form embankment including trimming and shaping compaction as per drawing and proctor test as directed. The rate should include all costs related to borrow material (establishment, access, transportation and reinstatement)	m3	4,900		
2.3.3.2	<b>Grass protective layer</b> Prepare dyke surface (including provision of black soil and manure), plant fast growing paspalum species (or similar as approved by engineer), provide care to maturity (at least 6 months)	m2	2,700		
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# BILL NO. 2.4: ROAD CROSSING BOX CULVERT STRUCTURE

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.4.1	Earth work				
2.4.1.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including	m²	96		
2.4.1.2	Excavate of soil to approach channel canal and crossing roads for culvert to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m³	192		
2.4.1.3	Compacted fill with selected material obtained from excavated borrow pits and transported soil to culvert working space	m³	20		
2.4.2	Structural work				
	Stone masonary work				
2.4.2.1	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m³	25		
	Form work				
2.4.2.2	To provide cut and fix in position smooth finish form work to masonry coping	m²	180		
	Concrete work				
2.4.2.3	Lean concrete class C-15, 150mm thick blinding under the tube floor Mass concrete class $C_{-25}$ to masonry coping	m <sup>2</sup>	50		
2.4.2.4	Reinforcement hars	111	45		
2.4.2.5	Provide, cut, bend and fix in position reinforcement steel bar to				
(a)	tube and control box 12mm diameter	kg	1,540		
(b)	16mm diameter	kg	750		
TOTAL	CARRIED TO SUMMARY >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>	-

### CONSTRUCTION OF SOIL AND WATER CONSERVATION STRUCTURES DOHO II IRRIGATION SCHEME IN BUTALEJA DISTRICT BILL OF QUANTITIES

### SUMMARY PAGE BILL NO. 3 - DOHO SCHEME

ITEM	AMOUNT
BILL NO. 3.1: FLOOD PROTECTION WORKS	
BILL NO. 3.2: RIVER TRAINING WORKS	
BILL NO. 3.3: ROAD CROSSING BOX CULVERT STRUCTURE	
BILL NO. 3.4: PIPE CULVERT STRUCTURE	
SUB-TOTAL 3 CARRIED TO SUMMARY PAGE	

### **BILL NO. 3.1: FLOOD PROTECTION WORKS**

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NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.1.1	Flood Protection Dyke				
3.1.1.1	Clearing and stripping of along the dyke to formation level on completion and disposal of surplus in spoil tips including placing up to 500m away	m²	38,636		
3.1.2	Earthworks				
3.1.2.1	Obtain excavated material from borrow areas at a distance 10km and place as compacted fill in layers 200 mm (to 95% MDD ASHTO) to form embankment including trimming and shaping compaction as per drawing and proctor test as directed. The rate should include all costs related to borrow material (establishment, access, transportation and reinstatement)	m <sup>3</sup>	15,000		
3.1.3	Grass protective layer		-		
3.1.3	Prepare embankment surface (including provision of black soil and manure), plant fast growing paspalum species (or similar as approved by engineer), provide care to maturity (at least 6 months)	m²	22,900		

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### **BILL NO. 3.2: RIVER TRAINING WORKS**

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
321	Clearing and strinning				
3.2.1.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m²	26,900		
3.2.2	Excavation				
3.2.2.1	Excavate of ordinary soil to main canal to formation level on completion and disposal of surplus in spoil tips including placing up to 500m away	m³	10,832		
3.2.3	Concrete works				
3.2.3.1	500mm thick hardcore blanket with max diam 400mm	m³	189		
3.2.3.2	Blinding Concrete Class C-20, 75mm thick cover the channel bed and sides as per drawing	m²	473		
3.2.3.3	Reinforced concrete Class C-30 vibrated both in the base and stems of the RC structure	m³	56		
3.2.3.4	Iron mesh under the concrete as per the drawing	m²	473		
3.2.4	Form work				
3.2.4.1	To provide cut and fix in position smooth finish form work to masonry coping	m²	1,350		
3.2.5	Reinforcement bars				
3.2.5.1	Provide, cut, bend and fix in position reinforcement steel bar to tube and control box	ha	2 500		
a	10mm diameter	кg	2,500		
D	12mm diameter	кg	2,500		
C		кg	2,500		
3.2.6	River Dredging				
3.2.6.1	River Dredging, Widening and Shaping	m³	36,106		
3.2.7	Fill of discontinued channel/ river sections				
3.2.7.1	Compacted fill with selected material obtained from excavated borrow pits and transported soil	m³	2,167		
2.1.8	Gabion works Gabion baskets must be of 3mm woven wire mesh: PVC				
2.1.8.1	Reinstate washed away sections of river bank by compacting suitable material to sufficient degree and finishing to smooth	m³	6,300		
2.1.8.2	slope to receive gabion boxes Supply and build gabion boxes and fill with selected rock material to sides of banks at all bends in river course and	m³	3,625		
2.1.8.3	backfill to level surface. Gabion baskets must be of 3mm woven wire mesh: PVC coated Gabion baskets shall be 2 x1 x 1 and 3mm woven wire mesh; Supply and install gabion mattresses of 4 x 2 x 0.3m filled with selected rock material	m²	2,730	_	
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# BILL NO. 3.3: ROAD CROSSING BOX CULVERT STRUCTURE

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.3.1	Earth work				
3.3.1.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including	m²	150		
3.3.1.2	Excavate of soil to approach channel canal and crossing roads for culvert to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m³	375		
3.3.1.3	Compacted fill with selected material obtained from excavated borrow pits and transported soil to culvert working space	m³	40		
3.3.2	Structural work				
	Stone masonary work				
3.3.2.1	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m³	60		
	Form work				
3.3.2.2	To provide cut and fix in position smooth finish form work to masonry coping	m²	224		
	Concrete work				
3.3.2.3	Lean concrete class C-15, 150mm thick blinding under the tube	m²	114		
3.3.2.4	Mass concrete class C-25 to masonry coping	m³	78		
	Reinforcement bars				
3.3.2.5	Provide, cut, bend and fix in position reinforcement steel bar to tube and control box	kσ	3674		
(a)	16mm diameter	ka	3674		
(0)		16	5071		
TOTAL	CARRIED TO SUMMARY >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>	>>>>>	>>>>>>>	

# BILL NO. 3.4: PIPE CULVERT STRUCTURE

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3 4 1	Farth work				
5.4.1					
3.4.1.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m <sup>2</sup>	60		
3.4.1.2	Excavation of soil to left and right side approach ditch of culvert, masonry wing walls and pipe bedding foundation to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m³	90		
3.4.1.3	Compacted fill with selected material obtained from excavated borrow pits and transported soil to masonry wing walls floor foundation working space	m³	60		
3.4.2	Structural work				
3.4.2.1	<i>Form work</i> To provide cut and fix in position smooth finish form work to masonry coping	m²	150		
3.4.2.2 3.4.2.3	<i>Concrete work</i> Lean concrete class C-15, 70mm thick blinding under the pipe floor bedding Mass concrete class C-20 to:	m²	52		
(a)	Headwall	m³	25		
(b)	Pipe bedding	m <sup>3</sup>	2.5		
3.4.2.4	Precast concrete pipe and thickness as mentioned in the drawing:				
а	Diameter 450 mm	m	10		
b	Diameter 600mm	m	10		
С	Diameter 900mm	m	10		
d	Diameter 1000mm	m	10		
е	Diameter 1200mm	m	32		
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#### **BILL 4: DAY WORKS**

NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4.1	Labour				
4.1.1	Working ganger leader	hr	50		
4.1.2	Semi-skilled labour	hr	80		
4.1.3	Unskilled labour	hr	120		
4.1.4	Driver for light vehicle	hr	10		
4.1.5	Driver for heavy vehicle	hr	10		
4.1.6	Operator for heavy equipment	hr	10		
4.2	Materials				
4.2.1	Ordinary Portland Cement in 50 kg bags	t	5		
4.2.2	Coarse aggregate for concrete.	m <sup>3</sup>	20		
4.2.3	Fine aggregate for concrete.	m <sup>3</sup>	30		
4.2.4	Water for concrete	L	100		
4.2.5	Plaster sand	m <sup>3</sup>	10		
4.2.6	Bricks for building.	nr	500		
4.2.7	Wire mesh size A193	$m^2$	200		
4.2.8	HDPE Pipes PN10 63mm OD	m	1		
4.2.9	HDPE Pipes PN16 63mm OD	m	1		
4.2.10	D I plipe PN25 300mm	m	1		
4.2.11	Ductile iron PN 25 OD 300mm	m	1		
4.2.12	PVC pipe PN10 300mm OD	6m	1		
4.2.13	PVC pipe PN16 300mm OD	6m	1		
4.2.14	Stainless -steel pipe PN 25 OD 300mm	6m	1		
4.2.15	25mm Strainer on 300 DN stainless steel flanged adaptor	No.	1		
4.2.16	25mm Strainer on 300 DN stainless steel flanged adaptor	No.	1		
4.2.17	300mm DN double flanged stainless steel pipe	No.	1		
4.2.18	300mm DN double flanged stainless steel gate valve	No.	1		
4.2.19	300mm DN double flanged stainless steel bend		1		
4.2.20	300mm DN flanged stainless steel pipe flanged on one end	No.	1		
4.2.21	and spigot on other end 300mm DN stainless steel pipe flange on one end and socket on other and	No.	1		
4.2.22	300mm DN flanged equal tee	No.	1		
4.2.23	High yield steel reinforcement bars	t	1		
4.2.24	Mild Steel reinforcement bars	t	1		
4.2.25	50 x 100mm soft wood	m	4		
4.2.26	50 x 100 mm hardwood	m	4		
4.2.27	450 x 230 x 200 mm Concrete Block	No.	1		
TOTAL C	ARRIED TO COLLECTION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>	

4.2.27	50 x 50 x 6 mm steel angle	m	1				
4.2.28	Concrete blocks for building, 225 mm for building	No.	1				
4.2.29	Concrete blocks for building, 150 mm for building	No.	1				
4.2.30	Timber, sawn	cm	1				
4.2.31	Timber, wrought	cm	1				
4.2.32	Steel reinforcement fabric S reference: A193	Sm	1				
4.2.33	Steel reinforcement fabric S reference: A142	Sm	1				
4.3	Day Work - Plant						
4.3.1	Road vehicles:Pick-up,1 1/2t.	hr	26				
	Road vehicles: Lorries:						
4.3.2	Flat-5t capacity	hr	120				
4.3.3	Flat-10t capacity	hr	120				
	Tipping :						
4.3.4	5t capacity	hr	120				
4.3.5	10t capacity	hr	120				
4.3.6	Over 10t but less than 18t	hr	120				
	Water tankers with pump and hoses:						
4.3.7	2,5001 capacity.	hr	120				
4.3.8	5,0001 capacity.	hr	120				
	Excavation, face shovel or dragline:						
4.3.9	0.25 m <sup>3</sup> bucket.	hr	120				
4.3.10	0.5m <sup>3</sup> bucket.	hr	120				
4.3.11	1.0m <sup>3</sup> bucket.	hr	120				
	Tractors:						
	rubber tyred with trailer, tracked including bull and angle dozer with ripper:						
4.3.12	(i) 75 kW.	hr	120				
4.3.13	(i) 150 kW.	hr	120				
4.3.14	(ii) 200 kW	hr	120				
4.3.15	(iii) 250 kW.	hr	120				
	Wheel loaders:						
4.3.16	(i) 1m <sup>3</sup> bucket.	hr	120				
4.3.17	(ii) 1.5m <sup>3</sup> bucket.	hr	120				
	Dumpers:						
4.3.18	1m <sup>3</sup> capacity	hr	120				
4.3.19	2m <sup>3</sup> capacity	hr	120				
4.3.20	3m <sup>3</sup> capacity	hr	120				
	Rollers:						
4.3.21	manual, 250 kg	hr	120				
4.3.22	vibratory, self, propelled, 1500 kg.	hr	120				
4.3.23	vibratory, trailer type, 2500 kg.	hr	120				
4.3.24	pneumatic tyred, self propelled, 5t.	hr	120				
4.3.25	smooth wheel, self propelled, 8t.	hr	120				
4.3.26	sheep's foot, trailer type, 5t.	hr	120				
TOTAL C	TOTAL CARRIED TO COLLECTION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>						

	Cranes, including slings chains, dogs & nins,				
	mobile, rubber tyred:				
4.3.27	(i) 5t capacity.	hr	120		
4.3.28	(ii) 10t capacity.	hr	120		
4.3.29	tracked, 20t.	hr	120		
	Concrete mixers with weigh batchers and loading				
1000	hoppers:		100		
4.3.30	3001 capacity.	hr	120		
4.3.31	4001 capacity.	hr	120		
	Concrete vibrator, pneumatic with hoses:				
4.3.32	poker type, 50 mm	hr	120		
4.3.33	shutter type	hr	120		
	Bar bending and shearing machines:				
	bending:-				
4.3.34	(i) hand operated.	hr	120		
4.3.35	(ii) power operated.	hr	120		
	shearing:-				
4.3.36	(i) hand operated	hr	120		
4.3.37	(ii) power operated.	hr	120		
	Air compressor, mobile with 5m of hose and steels				
1 2 2 9	with:	hr	120		
4.3.30 1.3.30	2 breakers	hr	120		
4.3.59	4 brookers	hr	120		
4.3.40	4 Dieakers.	111	120		
	Mobile electricity generating sets, 240 v, 1 pll, 50 Hz.				
4.3.41	5 kVA	hr	120		
4.3.42	10 kVA	hr	120		
TOTAL	CARRIED TO COLLECTION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>>	>>>>>>>	>	
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