



የአዲስ አበባ ከተማ አስተዳደር ዲዛይንና ግንባታ ስራዎች ቢሮ
**Addis Ababa City Administration Design And Construction
 Works Bureau**



ቀን /Date 30 / 10 / 2018 ዓ/ም

Our Ref. 20/አአ/ከአ/ዲ/ግ/ስ/ቢሮ/1399 /18

Your Ref. _____

ለቢሮ ኃላፊ

ለም/ቢሮ ኃላፊ ትላልቅ ፕሮጀክቶች የኮንትራት አስተዳደር ዘርፍ

ለም/ቢሮ ኃላፊ መካከለኛ ፕሮጀክቶች የኮንትራት አስተዳደር ዘርፍ

ለም/ቢሮ ኃላፊ የዲዛይን ዝግጅትና ምህንድስና ግዥ ዘርፍ

ለልደታ ክፍለ ከተማ ጽ/ቤት

ለየካ ክፍለ ከተማ ጽ/ቤት

ለቦሌ ክፍለ ከተማ ጽ/ቤት

ለኮልፌ ቀራንዮ ክፍለ ከተማ ጽ/ቤት

ለቂርቆስ ክፍለ ከተማ ጽ/ቤት

ለንፋስ ስልክ ላፍቶ ክፍለ ከተማ ጽ/ቤት

ለአራዳ ክፍለ ከተማ ጽ/ቤት

ለገላሌ ክፍለ ከተማ ጽ/ቤት

የአዲስ አበባ ከተማ አስተዳደር

ዲዛይንና ግንባታ ስራዎች ቢሮ

ለአቃቂ ቃሊቲ ክፍለ ከተማ ጽ/ቤት

ADDIS ABABA CITY ADMINISTRATION

DESIGN AND CONSTRUCTION WORKS

BUREAU

ለቤቶች ልማት ኮርፖሬሽን

ለቤቶች ልማትና አስተዳደር ቢሮ

ለውሃና ፍሳሽ አገልግሎት

ለመንገዶች ባለሥልጣን

ለመሬት ልማትና አስተዳደር ቢሮ

ለአካባቢ ጥበቃ ባለሥልጣን

ለከተማ ውበትና አረንጓዴ ልማት ቢሮ

ለግንባታ ፈቃድና ቁጥጥር ባለሥልጣን

አዲስ አበባ

ለከተማችን መሻሻል እንሰራለን! | Dedicated for the betterment of our City!

ለከተማችን መሻሻል እንሰራለን! | Dedicated for the betterment of our City!



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<https://www.addisconstructionwork.gov.et>

<https://www.facebook.com/AddisConstruction/>

<https://whatsapp.com/channel/0029Vani9gi0IwgezDJ1eFH1x>



https://tiktok.com/@design_and_construction1

<https://twitter.com/AddisCity>

<https://www.youtube.com/channel/UCwuE56TQUZmVIUT8>



ቀን /Date 30 / 10 / 2018 ዓ/ም

Our Ref. 20/አአ/ከአ/ዲ/ግ/ስ/ቢሮ/ 13-99 /18

Your Ref. _____

**ጉዳዩ:- የ2018 በጀት ዓመት 4ኛ ሩብ ዓመት የግንባታ
ሥራዎች የቀጥተኛ ዋጋ (Direct Cost) ይመለከታል**

ከላይ በርዕሱ እንደተጠቀሰው በአዲስ አበባ ከተማ አስተዳደር የዲዛይንና ግንባታ ሥራዎች ቢሮ በዓዋጅ ቁጥር 74/2014 በተሰጠው ሥልጣን መሰረት ወቅታዊ የግንባታ ስራዎች ቀጥተኛ ዋጋ በማጥናት ለሚመለከታቸው ተቋማት እያሰራጨ ይገኛል።

በዚህ መሰረት በያዝነው በጀት ዓመት 4ኛ ሩብ ዓመት በቢሮው አማካኝነት ተዘጋጅቶ የጸደቀውን የግንባታ ሥራዎች ቀጥተኛ ዋጋ (Direct Cost) ከዚህ ቀጥሎ በተገለጸው በቢሮ ድረ ገጽ መጠቀም የምትችሉ መሆኑን እንገልጽለን።

- 1.FACE BOOK:- Addis Ababa Design & Constructon works bureau
- 2.TELEGRAM:- Addis Ababa Design & Constructon works bureau
- 3.TWITTER:- Addis Ababa Design & Constructon works bureau

ግልበጭ

- ለም/ቢሮ/ኃ/ኮ/አ/ል/ቁ/ዘርፍ
- የግ/ስ/ዋ/ጥ/አቅ/ግ/ዳይሬክቶሬት
- ለግንባታ ስራዎች ዋጋ ጥናት ቡድን መሪ

ዲ/ግ/ቢ

ለከተማችን መሻሻል እንሰራለን! | Dedicated for the betterment of our City!

ለከተማችን መሻሻል እንሰራለን! | Dedicated for the betterment of our City!

ከላላምታ ወጪ
ከፊርማው በኋላ
የግንባታ ስራዎች
ዲ/ግ/ቢ



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የአዲስ አበባ ከተማ አስተዳደር

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https://tiktok.com/@design_and_construction1

<https://twitter.com/AddisCity>

<https://www.youtube.com/channel/UCwuES6TQUZmVIUT8>

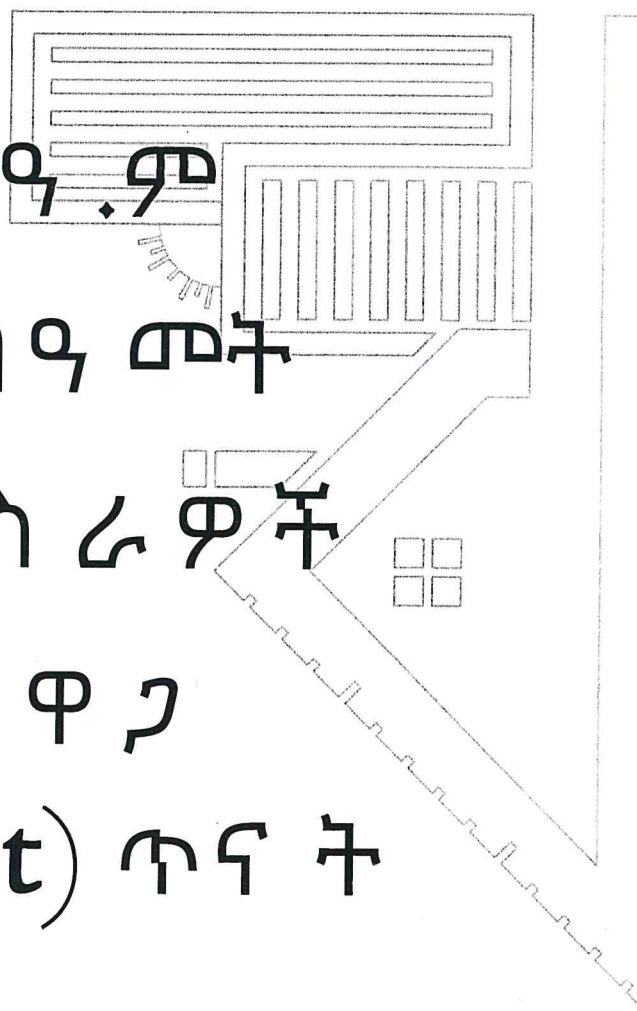


የአዲስአበባከተማአስተዳደርዲዛይንናግንባታስራዎችቢሮ
Addis Ababa City Administration Design And Construction
Works Bureau



ለከተማችን መሻሻል እንተ-ጋለን
 Dedicated for the betterment of our city
 ለከተማችን መሻሻል እንተ-ጋለን

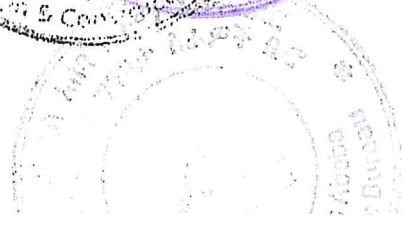
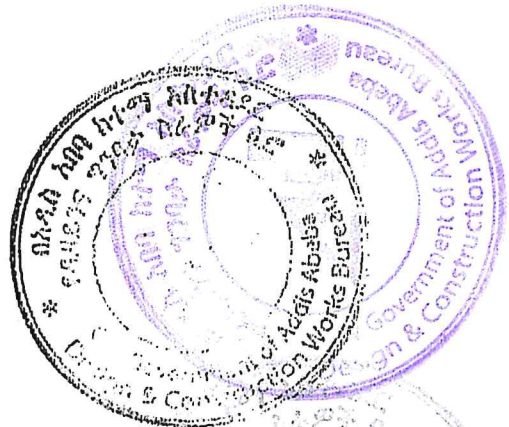
የ 2018 ዓ.ም
 የ 4ኛ ሩብ ዓመት
 የ ግንባታስራዎች
 ቀጥተኛ ዋጋ
(Direct Cost) ጥናት



መግቢያ፡-

በአዲስ አበባ ከተማ አስተዳደር በኮንስትራክሽን ቢሮ በአዋጅ ቁጥር በተሰጠው ስልጣን መሰረት የኮንስትራክሽን ግብዓት ቁርጥ ዋጋ ተዘዋዋሪ ወጪ (Overhead) እና ትርፍ (Profit) ተሰልቶ ጭምር ለባለድርሻ አካላት የሚተላለፍ ቢሆንም ይህንን የቁርጥ ዋጋ በተሰይ የተደራጁ ማህበራት የሚጠቀሙት ከመሆኑ አንፃር የኮንስትራክሽን ኢንዱስትሪውን እድገትና የማህበራቱን አቅም ከመገንባት አንፃር ለረጅም ጊዜ ወቅታዊነቱን ሚዛናዊነትን ያማከለ በቁርጥ ዋጋ ለሚሰሩ ስራዎች የተዘዋዋሪ (Overhead) 7% እና ትርፍ (Profit) 8% በማድረግ የገንባታ ስራ ነጠላ ዋጋ ጥናት ቢሮው ሲደረግ ቆይቶአል፡፡

ሆኖም ለተለያዩ የገንባታ ስራዎች እንደፕሮጀክቱ ስፋት የተቋራጩ አቅምና ደረጃ እንዲሁም ልዩ ልዩ ነባራዊ ሁኔታዎች የተዘዋዋሪ (Overhead) እና ትርፍ (Profit) አሰራር የሚለያይ በመሆኑ በያዝነው በጀት አመት ጥናቱ ቀጥተኛ ወጪ (Direct Cost) ብቻ ያካተተ ሲሆን ተቋማት ግን እንደፕሮጀክቱ ሁኔታ ከዚህ ቀጥሎ በተዘረዘረው መግለጫ አሰራር መሰረት በመጠቀም (Overhead) እና ትርፍ (Profit) ተክለው የገንባታ ስራ ነጠላ ዋጋ መትከል የሚቻልበት ሁኔታ መፍጠር አስፈላጊ በመሆኑ ቢሮው በዚሁ መሰረት ተፈጻሚ እንዲሆን ውሳኔ ላይ ደርሶአል፡፡በመሆኑም ከዚህ በመቀጠል በዝርዝር በተቀመጠው የአሰራር መግለጫ መሰረት ባለድርሻ አካላት የገንባታ ስራ ነጠላ ዋጋ ማስፈጸም የሚችሉበት ሁኔታ እንዲፈጸር ተደርጎአል፡፡



1. ተዘዋዋሪ ዋጋ /ወጪ/ (O)

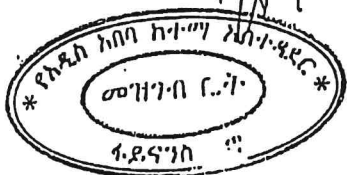
ተዘዋዋሪ ወጪ እንደ የጽ/ቤት ኪራይ፣ የጽ/ቤት ዕቃ ዕልቀት፣ የሠራተኞች ደመወዝ፣ የፖስታ መላላኪያ፣ የመብራት፣ የስልክ፣ የውሃ፣ የውሎ አበል፣ ወዘተ የመሳሰሉትን ወጪዎች ለመሸፈን የሚወጣ ክፍያ ነው። እንደ የድርጅቱ አቅምና ደረጃ እንዲሁም በእጅ ላይ በሚገኙ ፕሮጀክቶች ብዛት፣ መጠን አቅምና ደረጃ ተዘዋዋሪ ወጪ ዋጋ ፐርሰንት ይለያያል። ተዛማጅ ዋጋ /ወጪ/ በሁለት ይከፈላል፡- እነርሱም የዋና መስሪያ ቤት እና የፕሮጀክት ሳይት በመባል ይታወቃሉ።

- ለደረጃ 3 እና ከዚያ በላይ ላሉ ሥራ ተቋራጮች እስከ 10% የቀጥተኛ ወጪ /Direct Cost/ ድረስ ይሰላል።
- ለደረጃ 4፣5 እና 6 ሥራ ተቋራጮች እስከ 8% የቀጥተኛ ወጪ /Direct Cost/ ድረስ ይሰላል።
- ከደረጃ 6 በታች ላሉ ሥራ ተቋራጮች እስከ 6% ድረስ ይሰላል።

ጥልቅ የሆነ ሥራ ለመስራት አባሪ የተደረገውን የተዛማጅ ወጪዎችን ዝርዝር መጠቀም ይቻላል።

2. ትርፍ (P)

- የፕሮጀክት ዋጋቸው ከ5,000,000.00 ብር በታች ለሆኑ 13% የቀጥተኛ የሥራ ዋጋ /ወጪ/ ትርፍ ይሰላል።
- የፕሮጀክት ዋጋቸው ከ5,000,000.00 ብር እስከ 15,000,000.00 ብር ለሆኑ 11% የቀጥተኛ የሥራ ዋጋ /ወጪ/ ትርፍ ይሰላል።
- የፕሮጀክት ዋጋቸው ከ15,000,000.00 ብር እስከ 30,000,000.00 ብር ለሆኑ 10% የቀጥተኛ የሥራ ዋጋ /ወጪ/ ትርፍ ይሰላል።
- የፕሮጀክት ዋጋቸው ከ30,000,000.00 ብር እስከ 50,000,000.00 ብር ለሆኑ 10% የቀጥተኛ የሥራ ዋጋ /ወጪ/ ትርፍ ይሰላል።
- ከ50,000,000.00 ብር በላይ ለሆኑ 7% የቀጥተኛ የሥራ ዋጋ /ወጪ/ ትርፍ ይሰላል።



IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
1.1	Load and cart away all demolishing & dismantling material to an appropriate tip. (Manually)		
1.1.1	Demolishing the lamara wall	m ²	172.41
1.1.2	Demolishing the existing CIS wall	m ²	32.33
1.1.3	Demolishing of wooden wall	m ²	182.53
1.1.4	Demolishing of gypsum wall	m ²	91.27
1.1.5	Demolishing the CIS roof	m ²	51.72
1.1.6	Demolishing of 7x5 cm zigba purline	ml	25.86
1.1.7	Demolishing of eucalyptus upper & lower chords	ml	79.91
1.1.8	Dimolish RHS purline	ml	43.10
1.1.9	Dimolishing the RHS truss.	ml	103.01
1.1.10	Desmantling Gutter	ml	34.30
1.1.11	Desmantling down pipe	ml	69.82
1.1.12	Demolishing the chipwood ceiling	m ²	119.56
1.1.13	Demolishing the tember ceiling	m ²	166.06
1.1.14	Demolishing the abujedid ceiling	m ²	41.51
1.1.15	Dismantle the metal doors from the wall.	m ²	169.07
1.1.16	Dismantle the metal windows from the wall.	m ²	152.16
1.1.17	Desmantling fascia board	ml	47.65
1.1.18	Desmantling ridge & copping	ml	68.60
1.1.19	Demolishing the PVC floor tile	m ²	45.63
1.1.20	Demolishing kitchen sink	pcs	70.46
1.1.21	Demolishing toilet WC,HW,turkish seat	pcs	211.37
1.1.22	Desmantling of wooden door & window	m ²	135.47
1.2	Demolishing Work of different structures N.B. price include clearing the working area & dispose debri (at inside Construction Site) as indicated the supervisor		
1.2.1	Masonry Structure (BGL)	m ³	580.90
1.2.2	Masonry Structure (AGL)	m ³	774.54
1.2.3	Demolishing of 25cm thick hardcore	m ²	54.56
1.2.4	Concrete Structures	m ³	2,580.74
1.2.5	10cm thick HCB Structure	m ²	55.46
1.2.6	15cm thick HCB Structure	m ²	73.61

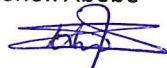
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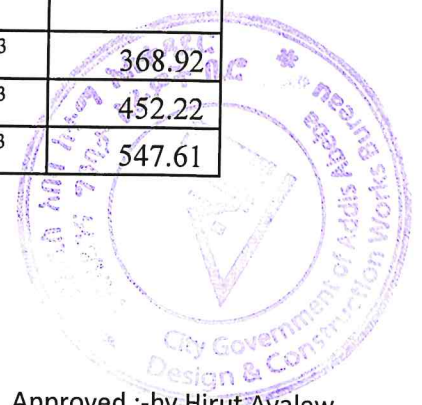
IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
1.2.7	20cm thick HCB Structure	m ²	103.06
1.2.8	Terrazzo floor	m ²	114.51
1.2.9	Cement screed floor	m ²	25.77
1.2.10	8cm thick Mass concrete floor	m ²	34.35
1.2.11	30x120x3cm thick marble tread	pcs	227.83
1.2.12	15x120x3cm thick marble riser	pcs	170.87
1.2.13	Steel Structure	Kg	10.61
1.2.14	Demolishing the ceramic wall tile	m ²	114.51
1.2.15	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	128.83
	(From 1st -3rd floor)		
1.2.16	Concrete Structures	m ³	3,236.74
1.2.17	10cm thick HCB Structure	m ²	78.23
1.2.18	15cm thick HCB Structure	m ²	100.59
1.2.19	20cm thick HCB Structure	m ²	140.82
1.2.20	Terrazzo floor	m ²	150.07
1.2.21	Cement screed floor	m ²	33.77
1.2.22	30x120x3cm thick marble tread	m ²	281.17
1.2.23	15x120x3cm thick marble riser	m ²	210.87
1.2.24	Steel Structure	kg	13.11
1.2.25	Demolishing the ceramic wall tile	m ²	150.07
1.2.26	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	168.83
	(From 4th -7th floor)		
1.2.27	Concrete Structures	m ³	4,036.74
1.2.28	10cm thick HCB Structure	m ²	80.82
1.2.29	15cm thick HCB Structure	m ²	103.91
1.2.30	20cm thick HCB Structure	m ²	145.47
1.2.31	Terrazzo floor	m ²	161.63
1.2.32	Cement screed floor	m ²	36.37
1.2.33	30x120x3cm thick marble tread	m ²	324.90
1.2.34	15x120x3cm thick marble riser	m ²	243.67
1.2.35	Steel Structure	kg	19.32





IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
1.2.36	Demolishing the ceramic wall tile	m ²	185.62
1.2.37	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	208.83
	(From 8th -12th floor)		
1.2.38	Concrete Structures	m ³	4,836.74
1.2.39	10cm thick HCB Structure	m ²	115.36
1.2.40	15cm thick HCB Structure	m ²	126.76
1.2.41	20cm thick HCB Structure	m ²	177.47
1.2.42	Terrazzo floor	m ²	197.19
1.2.43	Cement screed floor	m ²	44.37
1.2.44	30x120x3cm thick marble tread	m ²	378.23
1.2.45	15x120x3cm thick marble riser	pcs	283.67
1.2.46	Steel Structure	kg	19.01
1.2.47	Demolishing the ceramic wall tile	m ²	221.18
1.2.48	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	248.83
	(From 13th -20th floor)		
1.2.49	Concrete Structures	m ³	5,636.74
1.2.50	10cm thick HCB Structure	m ²	116.37
1.2.51	15cm thick HCB Structure	m ²	149.62
1.2.52	20cm thick HCB Structure	m ²	209.47
1.2.53	Terrazzo floor	m ²	232.74
1.2.54	Cement screed floor	m ²	52.37
1.2.55	30x120x3cm thick marble tread	m ²	431.57
1.2.56	15x120x3cm thick marble riser	pcs	323.67
1.2.57	Steel Structure	kg	21.51
1.2.58	Demolishing the ceramic wall tile	m ²	256.73
1.2.57	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	288.83
2	Excavation and earth work /የአፈር ቁፋር /		
2.1	Site clearance and excavation (mechanized)		
2.1.1	20cm. Clearing on wet & black soil.	m ²	98.79
2.2	Bulk excavation in loose & dry soil		
2.2.1	to a depth not exceeding 1.5m	m ³	368.92
2.2.2	to a depth exceeding 1.50m but not exceeding 3.00m	m ³	452.22
2.2.3	to a depth exceeding 3.00m but not exceeding 4.50m	m ³	547.61



IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
2.2.4	to a depth exceeding 4.50m but not exceeding 6.00m	m ³	625.84
2.2.5	to a depth exceeding 6.00m but not exceeding 7.50m	m ³	730.15
2.2.6	to a depth exceeding 7.50m but not exceeding 9.00m	m ³	876.18
2.2.7	to a depth exceeding 9.00m but not exceeding 10.50m	m ³	973.53
2.3	Pit excavation in loose & dry soil		
2.3.1	to a depth not exceeding 1500cm loose and dry soil.	m ³	417.23
2.3.2	to a depth exceeding 1500cm but not exceeding 3000mm	m ³	476.83
2.3.3	to a depth exceeding 3000cm but not exceeding 4500mm	m ³	556.30
2.3.4	to a depth exceeding 4500cm but not exceeding 6000mm	m ³	667.56
2.3.5	to a depth exceeding 6000cm but not exceeding 7500mm	m ³	834.46
2.3.6	to a depth exceeding 7500cm but not exceeding 9000mm	m ³	1,054.05
2.3.7	to a depth exceeding 9000cm but not exceeding 10500mm	m ³	1,430.50
2.4	Bulk excavation in soft rock		
2.4.1	not exceeding 1.5m	m ³	666.61
2.4.2	Over 1.5.0m,not exceeding 3m	m ³	760.13
2.4.3	Over 3.0m,not exceeding 4.5m	m ³	922.70
2.4.4	Over 4.5m,not exceeding 6.0m	m ³	1,318.14
2.4.5	Over 6.0m,not exceeding 7.5m	m ³	1,883.05
2.4.6	Over 7.5m,not exceeding 9.0m	m ³	2,690.08
2.4.7	Over 9.0m,not exceeding 10.5m	m ³	3,842.97
2.5	Pit excavation in soft rock		
2.5.1	not exceeding 1.5m	m ³	829.55
2.5.2	Over 1.5.0m,not exceeding 3m	m ³	911.60
2.5.3	Over 3.0m,not exceeding 4.5m	m ³	1,128.64
2.5.4	Over 4.5.0m,not exceeding 6m	m ³	1,612.35
2.5.5	Over 6m,not exceeding 7.5m	m ³	2,303.36
2.5.6	Over 7.5m,not exceeding 9m	m ³	3,290.51
2.5.7	Over 9m,not exceeding 10.5m	m ³	4,700.72
2.6	Bulk excavation in hard rock		
2.6.1	not exceeding 1.50m	m ³	1,368.24
2.6.2	Over 1.5m,not exceeding 3m	m ³	1,706.63
2.6.3	Over 3.0m,not exceeding 4.5m	m ³	2,051.20

IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
2.6.4	Over 4.5m,not exceeding 6.0m	m ³	2,792.32
2.6.5	Over 6.0m,not exceeding 7.5m	m ³	3,490.40
2.6.6	Over 7.5m,not exceeding 9.0m	m ³	4,363.00
2.6.7	Over 9.0m,not exceeding 10.5m	m ³	5,132.95
2.7	Pit excavation in hard rock		
2.7.1	not exceeding 1.50m	m ³	1,659.11
2.7.2	Over 1.5m,not exceeding 3m	m ³	2,051.09
2.7.3	Over 3.0m,not exceeding 4.5m	m ³	2,666.42
2.7.4	Over 4.5m,not exceeding 6m	m ³	3,627.78
2.7.5	Over 6.0m,not exceeding 7.5m	m ³	5,182.55
2.7.6	Over 7.5m,not exceeding 9m	m ³	7,403.64
2.7.7	Over 9m,not exceeding 10.5m	m ³	10,576.63
2.8	Back fill		
2.8.1	Back fill selected excavated mats. from the site.(mechanized)	m ³	982.68
2.8.2	Back fill selected excavated mats. from out side the site. (Upto 20km from Quarry site as long as Project Site) (Mechanized)	m ³	3,066.43
2.8.3	Back fill selected excavated mats. from out side the site. (Upto 15km from Quarry site as long as Project Site) (Mechanized)	m ³	2,540.36
2.8.4	Back fill selected excavated mats. from out side the site. (Upto 10km from Quarry site as long as Project Site) (Mechanized)	m ³	2,180.98
2.8.5	Back fill selected excavated mats. from out side the site. (Upto 5km from Quarry site as long as Project Site) (Mechanized)	m ³	1,821.61
2.8.6	25cm. thick basaltic hard core. (Mechanized)	m ²	1,099.89
3	EXCAVATION AND EARTH WORK. (manual)		
	20cm. Clearing on wet & black soil.	m ²	98.79
3.1	Bulk excav.in loose and dry soil.		
3.1.1	to a depth not exceeding 1500mm	m ³	718.65
3.1.2	to a depth exceeding 1500mm but not exceeding 3000mm	m ³	829.21
3.1.3	to a depth exceeding 3000mm but not exceeding 4500mm	m ³	937.37
3.2	Bulk excav.in soft rock.		
3.2.1	not exceeding 1.5m	m ³	1,437.86
3.2.2	Over 1.5.0m,not exceeding 3m	m ³	1,617.59
3.2.3	Over 3.0m,not exceeding 4.5m	m ³	1,990.89

IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
3.3	Bulk excav.in hard rock.		
3.3.1	not exceeding 1.50m	m ³	2,588.15
3.3.2	Over 1.5m,not exceeding 3m	m ³	3,041.68
3.3.3	Over 3.0m,not exceeding 4.5m	m ³	4,679.51
3.4	Pit & Trench excav. in loose and dry soil.		
3.4.1	not exceeding 1500cm	m ³	798.50
3.4.2	to a depth exceeding 1500cm but not exceeding 3000mm	m ³	979.98
3.4.3	to a depth exceeding 3000cm but not exceeding 4500mm	m ³	1,347.47
3.5	Pit & Trench excav. in soft rock		
3.5.1	not exceeding 1.5m	m ³	1,725.43
3.5.2	Over 1.5.0m,not exceeding 3m	m ³	2,156.79
3.5.3	Over 3.0m,not exceeding 4.5m	m ³	2,588.15
3.6	Pit Excavation in hard rock		
3.6.1	not exceeding 1.5m	m ³	2,875.72
3.6.2	Over 1.5m,not exceeding 3m	m ³	3,311.63
3.6.3	Over 3m,not exceeding 4.5m	m ³	5,793.68
3.7	Trench Excavation in hard rock		
3.7.1	not exceeding 1.5m	m ³	3,318.14
3.7.2	Over 1.5m,not exceeding 3m	m ³	4,462.33
3.7.3	Over 3m,not exceeding 4.5m	m ³	7,612.21
3.8	Back fill		
3.8.1	Back fill selected excavated mats. from the site. (Manualy)	m ³	854.51
3.8.2	Back fill selected excavated mats. from out side the site. (Upto 20km from Quarry site as long as Project Site) (Manualy)	m ³	3,050.24
3.8.3	Back fill selected excavated mats. from out side the site. (Upto 15km from Quarry site as long as Project Site) (Manualy)	m ³	2,524.17
3.8.4	Back fill selected excavated mats. from out side the site. (Upto 10km from Quarry site as long as Project Site) (Manualy)	m ³	2,164.79
3.8.5	Back fill selected excavated mats. from out side the site. (Upto 5km from Quarry site as long as Project Site) (Manualy)	m ³	1,805.42
3.8.6	Load and Cart away surplus excavated materials to 5km	m ³	589.84
3.8.7	Load and Cart away surplus excavated materials to 10km	m ³	625.59
3.8.8	Load and Cart away surplus excavated materials to 15km	m ³	730.88
3.8.9	Load and Cart away surplus excavated materials to 20km	m ³	872.56
3.8.10	25cm. thick basaltic hard core.(basaltic stone) (Manualy)	m ²	1,034.09
3.8.11	Supply, Spread & Compact Red Ash.	m ³	3,955.19

IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
4	CONCRETE WORK		
	SUB STRUCTURE		
a	C-7 Lean Concrete (Hand mix) (C-7)	m ²	779.95
b	C-5 Lean Concrete (Hand mix) (C-5)	m ²	741.10
c	C-15 10cm thick mass concrete pavement cost include hard core & 7cm selected material.	m ²	3,539.10
d	Mortar production (1:3)	m ³	16,212.93
e	Light Weight Concrete 1:2:5	m ³	16,333.02
f	10cm Thick C-15 mass Concrete	m ²	1,655.59
g	Supply & Apply polymer modified Semi elastic cementitious coating or equivalent water proofing	m ²	842.11
h	Supply & Apply 4mm thick approved quality water proof membrane	m ²	2,173.91
i	Supply & Apply ACRYLIC approved quality water proof.	m ²	1,391.30
j	10mm thick stayroraom expansion joint between ground floor slab & beam.	ml	247.80
k	20mm thick stayroraom expansion joint between ground floor slab & beam.	ml	343.36
l	GRP Water Tanker with all fitting accessories	m ³	70,000.00
	SUB STRUCTURE		
4.1	R.C. C-15 280 kg of cement per m3 with drum mixer		
4.1.1	C-15 Concrete (Mechanical Mix) 1:2:4 with admixture	m ³	18,101.92
4.1.2	C-15 Concrete (Mechanical Mix) 1:2:4 for Footing ,Beam and slab	m ³	17,437.92
4.1.3	C-15 Concrete (Mechanical Mix) 1:2:4 for Column ,shear wall	m ³	17,168.38
4.2	R.C. C-20 336 kg of cement per m3 with drum mixer		
4.2.1	C-20 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	18,102.09
4.2.2	C-20 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	17,438.09
4.2.3	C-20 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	18,050.38
4.3	R.C. C-25 378 kg of cement per m3 with drum mixer		
4.3.1	C-25 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	19,880.42
4.3.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	19,216.42
4.3.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	19,828.70
4.3.4	C-25 Concrete (Mechanical Mix) 1:2:3 for 10cm thick slab	m ²	1,921.64

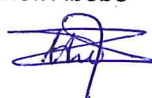
IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
4.4	R.C. C-30 420 kg of cement per m3 with drum mixer		
4.4.1	C-30 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	20,888.42
4.4.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	20,224.42
4.4.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	20,836.70
	SUPER STRUCTURE		
4.5	R.C. C-25 378 kg of cement per m3 with drum mixer		
4.5.1	C-25 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	20,562.87
4.5.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	19,898.87
4.5.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	20,600.21
4.5.4	C-25 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	21,101.17
4.5.5	C-25 Concrete (Mechanical Mix) 1:2:3 for 15cm thick slab	m ²	2,882.46
4.5.6	C-25 Concrete (Mechanical Mix) 1:2:3 for 18cm thick slab	m ²	3,458.96
4.6	R.C. C-30 420 kg of cement per m3 with drum mixer		
4.6.1	C-30 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	21,570.87
4.6.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	20,906.87
4.6.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	21,608.21
4.6.4	C-30 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	22,109.17
4.7	READY MIX CONCRETE WITH STATIONARY PUMP		
4.7.1	Supply and cast Reinforced concrete quality C-25,378 Kg of cement/ m ³ with water tight chemical in accordance with manufacturer Technical data sheet instruction, filled into from work and vibrated around rod reinforcement (formwork and reinforcement measured separately). Ready-Mix To connect stationery Pump. Unit price Shall include Water tight & Concrete bondage chemicals as well as all the necessary works.	m ³	21,955.23
4.7.2	Supply and cast Reinforced concrete quality C-30, 420 Kg of cement/ m ³ with water tight chemical in accordance with manufacturer Technical data sheet instruction, filled into from work and vibrated around rod reinforcement (formwork and reinforcement measured separately). Ready-Mix To connect stationery Pump. Unit price Shall include Water tight & Concrete bondage chemicals as well as all the necessary works.	m ³	22,690.23
4.7.4	Supply and cast Reinforced concrete quality C-40, 448 Kg of cement/ m ³ with water tight chemical in accordance with manufacturer Technical data sheet instruction, filled into from work and vibrated around rod reinforcement (formwork and reinforcement measured separately). Ready-Mix To connect stationery Pump. Unit price Shall include Water tight & Concrete bondage chemicals as well as all the necessary works.	m ³	23,845.23

IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
4.8	READY MIX CONCRETE WITHOUT STATIONARY PUMP		
4.8.1	Supply and cast Reinforced concrete quality C-25,378 Kg of cement/ m ³ with water tight chemical in accordance with manufacturerTechnical data sheet instruction, filled into from work and vibrated around rod reinforcement (formwork and reinforcement measured separately) Ready-Mix . Unit price Shall include Water tight & Concrete bondage chemicals as well as all the necessary works.	m ³	21,405.23
4.8.2	Supply and cast Reinforced concrete quality C-30, 420 Kg of cement/ m ³ with water tight chemical in accordance with manufacturerTechnical data sheet instruction, filled into from work and vibrated around rod reinforcement (formwork and reinforcement measured separately) Ready-Mix . Unit price Shall include Water tight & Concrete bondage chemicals as well as all the necessary works.	m ³	22,140.23
4.8.3	Supply and cast Reinforced concrete quality C-40, 504 Kg of cement/ m ³ with water tight chemical in accordance with manufacturerTechnical data sheet instruction, filled into from work and vibrated around rod reinforcement (formwork and reinforcement measured separately) Ready-Mix . Unit price Shall include Water tight & Concrete bondage chemicals as well as all	m ³	23,295.23
4.9	Form work		
4.9.1	Wooden form work For Beam, Footing & Column. sub structure	m ²	1,190.21
4.9.2	Wooden form work For Super structure column ,Floor beam & slab.	m ²	1,213.23
4.9.3	18mm thick Fair Faced Form work (high quality plywood) with crane.	m ²	1,746.99
4.9.4	Wooden scaffolding	m ²	118.00





IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
4.10	STEEL REINFORCEMENT		
4.10.1	Local Re-Bar Grade 75: Dia. 6mm (Sub structure)	kg	246.97
4.10.2	Local Re-Bar Grade 75: Dia. 8mm (Sub structure)	kg	242.06
4.10.3	Local Re-Bar Grade 75: Dia. 10mm (Sub structure)	kg	242.06
4.10.4	Local Re-Bar Grade 75: Dia. 12mm (Sub structure)	kg	238.74
4.10.5	Local Re-Bar Grade 75: Dia. 14mm (Sub structure)	kg	238.74
4.10.6	Local Re-Bar Grade 75: Dia. 16mm (Sub structure)	kg	238.74
4.10.7	Local Re-Bar Grade 75: Dia. 20mm (Sub structure)	kg	238.74
4.10.8	Local Re-Bar Grade 75: Dia. 24mm (Sub structure)	kg	238.74
4.10.9	Local Re-Bar Grade 75: Dia. 32mm (Sub structure)	kg	238.74
4.10.10	Local Re-Bar Grade 75: Dia. 6mm (Super structure)	kg	249.12
4.10.11	Local Re-Bar Grade 75: Dia. 8mm (Super structure)	kg	249.12
4.10.12	Local Re-Bar Grade 75: Dia. 10mm (Super structure)	kg	249.12
4.10.13	Local Re-Bar Grade 75: Dia. 12mm (Super structure)	kg	241.72
4.10.14	Local Re-Bar Grade 75: Dia. 14mm (Super structure)	kg	241.72
4.10.15	Local Re-Bar Grade 75: Dia. 16mm (Super structure)	kg	241.72
4.10.16	Local Re-Bar Grade 75: Dia. 20mm (Super structure)	kg	241.72
4.10.17	Local Re-Bar Grade 75: Dia. 24mm (Super structure)	kg	241.72
4.10.18	Local Re-Bar Grade 75: Dia. 32mm (Super structure)	kg	241.72
4.10.19	Imported Re-Bar Grade 75: Dia. 8mm (Sub structure)	kg	252.12
4.10.20	Imported Re-Bar Grade 75: Dia. 10mm (Sub structure)	kg	252.12
4.10.21	Imported Re-Bar Grade 75: Dia. 12mm (Sub structure)	kg	243.89
4.10.22	Imported Re-Bar Grade 75: Dia. 14mm (Sub structure)	kg	243.89
4.10.23	Imported Re-Bar Grade 75: Dia. 16mm (Sub structure)	kg	243.89
4.10.24	Imported Re-Bar Grade 75: Dia. 20mm (Sub structure)	kg	243.89
4.10.25	Imported Re-Bar Grade 75: Dia. 24mm (Sub structure)	kg	243.89
4.10.26	Imported Re-Bar Grade 75: Dia. 30mm (Sub structure)	kg	243.89
4.10.27	Imported Re-Bar Grade 75: Dia. 32mm (Sub structure)	kg	243.89
4.10.28	Imported Re-Bar Grade 75: Dia. 8mm (Super structure)	kg	260.35
4.10.29	Imported Re-Bar Grade 75: Dia. 10mm (Super structure)	kg	260.35
4.10.30	Imported Re-Bar Grade 75: Dia. 12mm (Super structure)	kg	246.87
4.10.31	Imported Re-Bar Grade 75: Dia. 14mm (Super structure)	kg	246.87
4.10.32	Imported Re-Bar Grade 75: Dia. 16mm (Super structure)	kg	246.87
4.10.33	Imported Re-Bar Grade 75: Dia. 20mm (Super structure)	kg	246.87
4.10.34	Imported Re-Bar Grade 75: Dia. 24mm (Super structure)	kg	251.95
4.10.35	Imported Re-Bar Grade 75: Dia. 30mm (Super structure)	kg	246.87
4.10.36	Imported Re-Bar Grade 75: Dia. 32mm (Super structure)	kg	246.87


IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
5	Masonry & block work		
5.1.1	40cm. thick masonry foundation (A.G.L) Cement Mortar 1:3.	m3	9,291.87
5.1.2	50cm. thick masonry foundation (A.G.L) Cement Mortar 1:3.	m3	9,179.03
5.1.3	60cm. thick masonry foundation (B.G.L) Cement Mortar 1:3.	m3	9,095.12
5.1.4	40cm. thick One Side Roughly Dressed Stone masonry (A.G.L) Cement Mortar 1:3.	m3	10,086.38
5.1.5	50cm. thick One Side Roughly Dressed Stone masonry (A.G.L) Cement Mortar 1:3.	m3	9,950.26
5.1.6	60cm. thick One Side Roughly Dressed Stone masonry (A.G.L)	m3	9,851.75
5.1.7	50cm. thick masonry foundation (B.G.L) Cement Mortar 1:3.	m3	8,804.92
5.1.8	40cm. thick masonry foundation (B.G.L) Cement Mortar 1:3.	m3	9,222.41
5.1.9	400mm thick Finely dressed elevation wall Cement Mortar 1:3.	m2	3,955.61
5.1.10	500mm thick Finely dressed elevation wall Cement Mortar 1:3.	m2	5,549.60
5.1.11	10 cm. thick class-c HCB Wall Both Sides Left For Plastering.	m2	1,275.74
5.1.12	10 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m2	1,436.53
5.1.13	15 cm. thick class-c HCB Wall Both Sides Left For Plastering.	m2	1,567.67
5.1.14	15 cm. thick class-c Solid CB Wall Both Sides Left For	m2	1,687.10
5.1.15	20 cm. thick class-c HCB Wall Both Sides Left For Pointing	m2	1,808.04
5.1.16	20 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m2	1,963.31
5.1.17	10 cm. thick class-b HCB Wall Both Sides Left For Plastering.	m2	1,486.90
5.1.18	10 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m2	1,728.30
5.1.19	15 cm. thick class-b HCB Wall Both Sides Left For Plastering.	m2	1,782.36
5.1.21	15 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m2	2,244.25
5.1.22	20 cm. thick class-b HCB Wall Both Sides Left For Pointing	m2	2,459.76
5.1.23	20 cm. thick class-b Solid CB Wall Both Sides Left For	m2	2,917.44
5.1.24	10 cm. thick class-a HCB Wall Both Sides Left For Plastering.	m2	1,903.67
5.1.25	10 cm. thick class-a Solid CB Wall Both Sides Left For	m2	2,367.29
5.1.26	15 cm. thick class-a HCB Wall Both Sides Left For Plastering.	m2	2,399.14
5.1.27	15 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m2	3,038.49

IT.NO	DESCRIPTION	UNIT	2018 4rth Quarter (Direct cost Only)
5.1.28	20 cm.thick class-a HCB Wall Both Sides Left For Pointing	m2	2,564.88
5.1.29	20 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m2	3,689.88
5.1.30	40 cm.thick Dressed Stone Masonry Wall one Side well dressed & the other plastered	m2	7,580.80
5.1.31	250mm .thick Double Brick Wall	m2	5,272.11
5.1.32	120mm .thick Single Brick Wall	m2	2,744.51
5.1.33	Chika wall with all wood work /እንጨት በጭቃ ግድግዳ/	m2	1,224.65
5.1.34	Eucalyptus wood wall with all wood work /እንጨት ግድግዳ/	m2	756.45
5.1.35	2.5cm thick Timber wall with 10cm & 6cm dia. Eucalyptus and all wood work/ሳንቃ ጣውላ ግድግዳ/	m2	1,633.75
5.1.36	G32 CIS with Euculyptus /ለአጥር የሚሆን ቆርቆሮ እንጨት ግድግዳ/	m2	1,014.77
5.1.37	8mm thick Chipwood wall with Eucalyptus dia.10cm and 5x7cm shashemene batten.	m2	1,571.79
5.1.38	18mm thick Laminated MDF Wall with 5x7cm Shashemene batten wood work and all necessary work.	m2	2,650.00
5.1.39	18mm thick Laminated MDF Wall. With out batten	m2	1,756.93
5.1.40	20x20mm and 1.5mm thick Wire mesh wall Welded on the frame	m2	1,093.69
5.1.41	Barbed wire fence with 40x40x3mm Angle Iron Frame	m2	1,314.44
5.1.42	Supply & lay class A galvanized 800*1000*2.5cm hexagonal Mesh rock size 100- 250 for 1m ³ as directed by the engineer. (ጋቢዮን በእጅ የተሰራ)	m ³	6,959.18
5.1.45	Supply & lay class A galvanized 800*1000*2.5cm hexagonal Mesh rock size 100- 250 for 2m ³ as directed by the engineer. Fabiricated (ጋቢዮን በማሽን የተሰራ)	m ³	7,159.18
6.00	Shear Wall for river side		
	R.C. C-25 378 kg of cement per m3		
6.1.1	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	20,000.34
7.00	R.C. C-30 420 kg of cement per m3		
7.1.1	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	21,027.84
7.1.2	18mm thick Fair Faced Form work (high quality plywood) with crane.	m ²	2,076.99






item no.	Description	unit	2018 4th Quarter (Only Direct cost)
6	Roof work		
6.1	EGA roof coover the price includes J-bolt		
6.1.1	Galvanized EGA 300 roof cover		
1	0.30 mm thick	m ²	1,596.25
2	0.35 mm thick	m ²	1,785.51
3	0.40 mm thick	m ²	1,958.45
4	0.50 mm thick	m ²	2,135.55
5	0.60 mm thick	m ²	2,385.35
6	0.70 mm thick	m ²	2,632.49
7	0.80 mm thick	m ²	2,863.96
8	1.00 mm thick	m ²	3,107.64
6.1.2	Galvanized EGA 400 roof cover		
1	0.30 mm thick	m ²	1,780.73
2	0.35 mm thick	m ²	1,987.74
3	0.40 mm thick	m ²	2,217.70
4	0.50 mm thick	m ²	2,430.31
5	0.60 mm thick	m ²	2,623.64
6	0.70 mm thick	m ²	2,847.72
7	0.80 mm thick	m ²	3,071.13
8	1.00 mm thick	m ²	3,264.50
6.1.3	Galvanized EGA 500 roof cover		
1	0.30 mm thick	m ²	1,846.07
2	0.35 mm thick	m ²	2,116.70
3	0.40 mm thick	m ²	2,300.15
4	0.50 mm thick	m ²	2,523.61
5	0.60 mm thick	m ²	2,731.78
6	0.70 mm thick	m ²	2,935.84
7	0.80 mm thick	m ²	3,213.53
8	1.00 mm thick	m ²	3,488.80
6.1.4	Galvanized EGA 600 roof cover		
1	0.30 mm thick	m ²	1,915.24
2	0.35 mm thick	m ²	2,110.72
3	0.40 mm thick	m ²	2,313.65
4	0.50 mm thick	m ²	2,543.02
5	0.60 mm thick	m ²	2,756.42
6	0.70 mm thick	m ²	2,977.88
7	0.80 mm thick	m ²	3,263.52
8	1.00 mm thick	m ²	3,584.72
6.1.5	Galvanized EGA 700 roof cover		
1	0.30 mm thick	m ²	1,997.42
2	0.35 mm thick	m ²	2,153.62
3	0.40 mm thick	m ²	2,329.62
4	0.50 mm thick	m ²	2,631.07
5	0.60 mm thick	m ²	2,765.22
6	0.70 mm thick	m ²	2,988.52
7	0.80 mm thick	m ²	3,289.92
8	1.00 mm thick	m ²	3,601.22
9	EGA 0.4mm thick (G-28) Coated roof cover	m ²	1,929.94
10	EGA 0.4mm thick (G-28) Coated For Wall	m ²	1,754.90
11	EGA 0.4mm thick (G-28) Coated For Wall with 10cm Dia. Vertical member & 6cm Dia. Horizontal members Eucalyptus/ለአጥር የሚሆን የተቀባ ኤጋ ከቀርቆ የአንጨት ግድግዳ ጋር/	m ²	2,022.07
6.2	Gutter/ጎረጎጃየ/		
	Galvanized metal sheet gutter /ጎረጎጃየ/		
6.2.1	G- 28 of devt. Length 33 cm	ml	821.83
6.2.2	G- 30 of devt. Length 33 cm	ml	750.07
6.2.3	G- 28 of devt. Length 40 cm	ml	968.35
6.2.4	G- 30 of devt. Length 40 cm	ml	864.31
6.2.5	G- 28 of devt. Length 50 cm	ml	1,157.05
6.2.6	G- 30 of devt. Length 50 cm	ml	920.41
6.2.7	G- 28 of devt. Length 67 cm	ml	1,332.49
6.2.8	G- 30 of devt. Length 67 cm	ml	1,051.99
6.2.9	G- 28 of devt. Length 100 cm	ml	1,470.71
6.2.10	G- 30 of devt. Length 100 cm	ml	1,299.85

Prepared by:- Tedi M.

Checked by:-Henok A.

Approved by:-Hirut A.

item no.	Description	unit	2018 4th Quarter (Only Direct cost)
6	Down pipe (አሽንዳ)		
6.3.1	G- 28 of devt. Length 33 cm	ml	854.07
6.3.2	G- 30 of devt. Length 33 cm	ml	854.07
6.3.3	G- 28 of devt. Length 40 cm	ml	1,012.90
6.3.4	G- 30 of devt. Length 40 cm	ml	857.70
6.3.5	G- 28 of devt. Length 50 cm	ml	1,077.46
6.3.6	G- 30 of devt. Length 50 cm	ml	1,044.66
6.4	PVC down pipe PN 4		
6.4.1	PVC down pipe Dia.75mm	ml	469.41
6.4.2	PVC down pipe Dia.110mm	ml	567.84
6.4.3	PVC down pipe Dia.160mm	ml	1,019.08
6.6	Galvanized steel flashing		
6.6.1	G-30 deve.length 50cm	ml	1,082.14
6.6.2	G-30 deve.length 67cm	ml	1,192.91
6.6.3	G-30 deve.length 100cm	ml	1,497.41
6.6.4	G-28 deve.length 50cm	ml	1,264.84
6.6.5	G-28 deve.length 67cm	ml	1,472.74
6.6.6	G-28 deve.length 100cm	ml	1,590.48
6.7	Galvanized steel copping		
6.7.1	G-28 deve.length 25cm	ml	620.78
6.7.2	G-30 deve.length 25cm	ml	615.68
6.7.3	G-28 deve.length 33cm	ml	856.77
6.7.4	G-30 deve.length 33cm	ml	616.70
6.7.5	G-28 deve.length 50cm	ml	865.58
6.7.6	G-30 deve.length 50cm	ml	824.78
6.8	Galvanized steel roof ridge		
6.8.1	G-28 deve.length 33cm	ml	759.81
6.8.2	G-30 deve.length 33cm	ml	657.81
6.8.3	G-28 deve.length 50cm	ml	889.35
6.8.4	G-30 deve.length 50cm	ml	792.45
6.9	CIS Roofing		
6.9.1	G28 CIS Roofing (Without Truss & Purlin)	m ²	1,370.13
6.9.2	G30 CIS Roofing (Without Truss & Purlin)	m ²	1,229.59
6.9.3	G32 CIS Roofing (Without Truss & Purlin)	m ²	997.16
6.9.4	G35 CIS Roofing (Without Truss & Purlin)	m ²	833.46
6.9.5	Aspesto roof cover with all necessary works.	m ²	847.68
6.9.6	Euro tile roof cover with all necessary works.	m ²	878.88
6.9.7	Grass roof cover with all necessary works.	m ²	825.13
6.9.8	2mm thick Transparent fiber Roof cover (Corrugated Type)	m ²	1,257.17
6.9.9	G-32 CIS roof with Shashemene Zigba purline (4x5cm)	m ²	1,412.24
6.9.10	Tsid Timber cladding 1cm for decorating roof purlin /የጣራ ጣልላ ፐርሊን ንጥ/	m ²	1,453.56
6.9.11	Light Weight Concrete 1:2:5 for roof	m ³	15,754.06

Prepared by:- Tedi M.

Checked by:- Henok A.

Approved by:-Hirut A.



5

item no.	Description	unit	2018 4th Quarter (only Direct cost)
CARPENTRY AND JOINERY			
Ceiling			
7.1	supply & fix Abujedy ceiling with 5x4cm Shashemene batten	m ²	1,012.99
7.2	supply & fix Fyzit ceiling 5x4cm Shashemene batten	m ²	1,957.97
7.3	supply & fix Parquet ceiling 5x4cm Shashemene batten	m ²	3,775.20
7.4	supply & fix 1cm thick Timber celing /ጣውላ ኮርኒስ/ with 5x4cm Shashemene batten	m ²	1,896.16
7.5	supply & fix Purline ceiling 5x4cm Shashemene batten	m ²	1,386.58
7.6	supply & fix Playwood ceiling /Compersato/ 5x4cm Shashemene batten	m ²	2,278.08
7.7	supply & fix Rush ceiling /ሸንቦቹ ኮርኒስ/ Compersato 5x4cm Shashemene batten	m ²	1,073.08
7.8	supply & fix Ceiling made with plastic sack/ጣዳበሪ ኮርኒስ/ 5x4cm Shashemene batten	m ²	981.79
7.9	supply & fix Ceiling made with sack /ጅንዩ/ 5x4cm Shashemene batten	m ²	739.49
7.10	supply & fix 8mm. thick chipwood Ceiling with 5x4cm Shashemene batten	m ²	2,466.87
7.11	supply & fix Armstrong acoustical ceiling With Suspender and all accessories	m ²	3,800.00
7.12	supply & fix Mineral fiber accoustic ceiling With all accessories	m ²	3,300.00
7.13	supply & fix local gypsum ceiling with out batten	m ²	950.00
7.14	supply & fix PVC ceiling (laminated/imported) with 5x4cm Shashemene batten & corner list	m ²	2,693.80
7.17	supply & fix 25 cm. Wide Kerrero Facia Board	ml	1,002.50
7.18	supply & fix 30 cm. Wide Kerrero Facia Board	ml	1,167.50
Wooden truss & purlin			
7.19	10-12 cm. dia. Vertical Chords Eucaliptus Wood.	ml	206.01
7.20	8-10 cm. dia. Vertical & Diagonal member Eucaliptus Wood.	ml	191.85
7.21	Diam. 6 cm thick eucalyptus purlin	ml	130.89
7.22	50 X 70mm. Tid (Shashemene) Roof Purlin	ml	353.40
Doors			
7.23	supply & fix 40mm thick Mahogany plywood smooth finish flush wooden door /ታምቡራታ በር / with all necessary accessories.	m ²	16,400.00
7.24	supply & fix 40mm thick Smooth MDF board made imported wooden door (best quality) with all necessary accessories.	m ²	19,500.00
7.25	supply & fix 40mm thick Antique MDF board wooden door with all necessary accessories.	m ²	19,800.00
7.26	supply & fix 40mm thick Solid wooden door (best quality standard) with all necessary accessories.	m ²	23,600.00
7.27	Supply and fix best quality PVC Door have weather resistant, energy efficient, stylish design perfect for both interior and exterior part, easy to clean unit price includes best quality cylindrical door lock and all necessary accessories works and materials to fulfil the job.	m ²	12,980.00
7.28	supply and fix 12mm thickness high pressure laminated (HPL) door with stainless steel frame. Price shall includes all necessary accessories and related works.	m2	18,150.00
7.29	supply and fix 12mm thickness high pressure laminated (HPL) partition with stainless steel frame. Price shall includes all necessary accessories and related works.	m2	16,500.00
7.30	1cm thick timber door with 5cm wide fascia board /መናኛ ፐርሊን ጣውላ በር ከመቃን ጋር መስታወት የለለው/	m ²	2,727.07
7.31	3cm thick timber door /ፐርሊን ጣውላ በር መስታወት የለለው /	m ²	2,692.32
7.32	1cm thick timber window /መናኛ ፐርሊን ጣውላ መስኮት ከመቃን ጋር መስታወት የለለው /	m ²	1,838.86
7.33	3cm thick timber window /ፐርሊን ጣውላ መስኮት መስታወት የለለው/	m ²	1,838.86
7.34	3cm thick timber window with 4mm thick glass /ፐርሊን ጣውላ መስኮት መስታወት ያለው/	m ²	4,046.11
7.35	G-32 CIS door with all wood work /የቆርቆሮ በር ከመቃን ጋር/	m ²	1,418.90
7.36	G-32 CIS window with all wood work /የቆርቆሮ መስኮት ከመቃን ጋር/	m ²	1,418.90
7.37	1cm Timber /Tsid/ door /የጽድ ጣውላ በር /	m ²	1,665.61
7.38	1cm Timber /Tsid/ window /የጽድ ጣውላ መስኮት /	m ²	1,701.61



prepared by:-

Tewodros Moges.

checked by:- Henok Abebe.

Approved by:- Hirut Ayalew.

item no.	Description	unit	2018 4th Quarter (only Direct cost)
8.00	METAL WORK		
8.1	Fully metal doors of 38mm LTZ without grill (1.5mm thick)	m ²	5,621.06
8.2	Partially glazed metal doors of 38LTZ without grill	m ²	5,468.78
8.3	Partially glazed metal doors of 38mm LTZ with grill (1.5mm thick)	m ²	5,806.19
8.4	Metal Windows of 38LTZ without grill (1.5mm thick)	m ²	4,829.42
8.5	Metal Windows of 38LTZ (1.5mm thick) with grill	m ²	6,643.94
8.6	Double leaf metal doors of 38mmLTZ without grill (1.5mm thick)	m ²	5,457.94
8.7	Double leaf metal doors of 38mmLTZ with grill (1.5mm thick)	m ²	6,017.24
8.8	Fully metal doors of 28mm LTZ without grill (1.2mm thick)	m ²	5,230.06
8.9	Partially glazed metal doors of 28mm LTZ without grill (1.2mm thick)	m ²	4,489.73
8.10	Partially glazed metal doors of 28mm LTZ with grill (1.2mm thick)	m ²	5,040.31
8.11	Metal Windows of 28LTZ without grill (1.2mm thick)	m ²	3,787.65
8.12	Metal Windows of 28LTZ with grill (1.2mm thick)	m ²	4,592.82
8.13	Double leaf metal doors of 28mmLTZ without grill (1.2mm thick)	m ²	4,502.54
8.14	Double leaf metal doors of 28mmLTZ with grill (1.2mm thick)	m ²	5,168.93
8.16	Sliding door & window. Price shall include Angle iron 40X40X3mm Bottom rail & RHS 50X50X2.5mm Top rail.	m ²	4,364.78
8.17	supply & fix Sheet metal partition wall (1mm thick Lamera) with RHS 30x30x2.5	m ²	4,292.95
8.18	supply & fix Only 1mm thick Sheet metal (Lamera) partition wall	m ²	2,154.74
8.19	supply & fix 6mm thick metal plate with all necessary accessories.	m ²	11,700.00
8.20	supply & fix 8mm thick metal plate with all necessary accessories.	m ²	14,900.00
8.21	supply & fix 10mm thick metal plate with all necessary accessories.	m ²	16,900.00

prepared by:-

Tewodros Moges.

checked by:- Henok Abebe.

Approved by:- Hirut Ayalew.






item no.	Description	unit	2018 4th Quarter (only Direct cost)
	Aluminium Work		
8.22	Supply & fix 1.6mm thick Aluminium frame window with 6mm thick clear glazed with all necessary accessories	m ²	16,834.00
8.23	Supply & fix 1.6mm thick Aluminium frame window with 6mm thick double clear glazed with all necessary accessories	m ²	19,800.00
8.24	supply & fix 1.6mm thick Aluminium framed window with 8mm thick clear glazed with all necessary accessories	m ²	18,517.00
8.25	supply & fix 1.6mm thick Aluminium frame window with 8mm thick double clear glazed with all necessary accessories	m ²	22,425.00
8.26	supply & fix Aluminium sun breaker (vertical sun breaker with 150*mm*150mm*1.4mm) with 1meter C/C spacing all necessary accessories	m ²	10,925.00
8.27	supply & fix 1.6mm thick Aluminium Curtain wall 6mm thick clear glass with all necessary accessories (External)	m ²	22,310.00
8.28	supply & fix 1.6mm thick Aluminium Curtain wall 8mm thick clear glass with all necessary accessories (External)	m ²	24,035.00
8.29	supply & fix 1.6mm Aluminium partition wall with 6mm thick frosted clear glass with all necessary accessories.	m ²	16,128.00
8.30	supply & fix 1.4mm Aluminium partition wall with 6mm thick frosted clear glass with all necessary accessories.	m ²	14,916.00
8.31	supply & fix 2mm Aluminium partition wall with 6mm thick frosted clear glass with all necessary accessories.	m ²	16,430.00
8.32	supply & fix 1.6mm thick Aluminium frame door with 6mm thick clear glass with all necessary accessories.	m ²	18,300.00
8.33	supply & fix 1.6mm thick Aluminium frame door with 4mm thick clear glass with all necessary accessories.	m ²	15,760.00
8.34	supply & fix 1.6mm thick Aluminium frame window with 4mm thick clear glass with all necessary accessories.	m ²	15,625.00
8.35	supply & fix 1.6mm thick Aluminium frame door with 5mm thick clear glass with all necessary accessories.	m ²	16,750.00
8.36	supply & fix 1.6mm thick Aluminium frame window with 5mm thick clear glass with all necessary accessories.	m ²	16,228.00
8.37	supply & fix 2mm thick Aluminium frame door with 8mm thick clear glass with all necessary accessories.	m ²	19,240.00
8.38	supply and fix 2mm thick aluminum profile window with 6mm thick tinted glass with all necessary accessories.	m ²	18,550.00
8.39	supply and fix 2mm thick aluminum profile Door with 6mm thick tinted glass with all necessary accessories.	m ²	18,850.00
8.40	supply and fix anodized aluminum framed sky light according to the drawing. Price shall include 8mm thick VITS glass and aluminum rectangular section 60*40with spacing 600*800 over RHS appropriate rubber gasket according to manufacturers instruction. Detailed work shop drawing shall be presented by the contractor for approval by the designer before production.	m ²	26,100.00
8.41	Supply & fix 1.6mm thick Aluminium window Frames with all necessary accessories (Only Frame works).	m ²	10,800.00
8.42	Supply & fix 1.6mm thick Aluminium Door Frames with all necessary accessories (Only Frame works).	m ²	11,050.00
8.43	Supply & fix 2mm thick Aluminium window Frames with all necessary accessories (Only Frame works).	m ²	11,300.00
8.44	Supply & fix 2mm thick Aluminium Door Frames with all necessary accessories (Only Frame works).	m ²	11,550.00
	STEEL STRUCTURE WORK		
8.45	Supply and fix different size and thickness Steel Roof Truss & Purlin With RHS. price shall include three coat antirust and the necessary works and materials to full fill the job.	kg	314.40
8.46	Supply and fix different size and thickness Metal hand rail made of RHS, CHS and SHS . price shall include three coat antirust and the necessary works and materials to full fill the job.	kg	297.10
8.47	Supply and fix different size and thickness Stainless steel hand rail made of RHS, CHS and SHS . price shall include all the necessary works and materials to full fill the job.	kg	1,400.00
8.48	Supply and fix different size and thickness Aluminum works . price shall include all the necessary works and materials to full fill the job.	kg	680.00
8.49	Supply & fix metal angle iron 30*30*3mm with all necessary accessories.	ml	489.48
8.50	Supply & fix metal angle iron 40*40*3mm with all necessary accessories.	ml	551.20
8.51	dia. 16 mm. deformed bars dev. Length 400mm (J-bolt)	Pcs	222.53
8.52	dia. 12 mm. deformed bars dev. Length 100mm(J-bolt)	Pcs	20.60
8.53	dia. 14 mm. deformed bars dev. Length 160mm(J-bolt)	Pcs	67.11
8.54	dia. 20 mm. Anchor bolt dev. Length 400mm	Pcs	417.61
8.55	supply fix Galvanized different size RHS Middle vertical post	kg	380.00
8.56	supply & fix Galvanized different size Connector plates to ground and top	kg	415.00

prepared by:-

Tewodros Moges.

checked by:- Henok Abebe.

Approved by:- Hirut Ayalew.

9	FINISHING WORKS	Unit	2018, 4th Quarter Direct Cost Only
9.1	PLASTERING		
9.1.2	3 Coats of cement plastering (1:3) (To internal wall)	m ²	913.61
9.1.3	3 Coats of cement plastering (1:3) (To external wall)	m ²	925.13
9.1.4	3 Coats of cement plastering to exposed beams and columns.	m ²	978.42
9.1.5	3 Coats of cement plastering to Slab soffit beams soffit	m ²	1,103.95
9.1.6	2 Coats of cement plastering internal vertical surface.	m ²	720.00
9.1.7	2 Coats of cement plastering External vertical surface.	m ²	720.00
9.1.8	Cement wash vertical surface.	m ²	309.22
9.1.9	2 Coats of cement plastering Exposed column and beam	m ²	721.92
9.1.10	2 Coats of cement plastering concrete soffit	m ²	876.09
9.1.11	Final Coat of cement Rendering .	m ²	217.50
9.1.12	Final Coat of cement plastering vertical and exposed column and beam	m ²	199.52
9.1.13	Final Coat of cement plastering concrete soffit	m ²	269.14
9.1.14	Final Coat of Gypsum plastering Soffit	m ²	352.94
9.1.15	Final Coat of Gypsum plastering Vertical wall and Exposed column and beam	m ²	304.74
9.1.16	Final Coat of Gypsum plastering external Vertical wall and Exposed column and beam	m ²	283.32
9.1.17	Supply and apply high quality primer (time gypsum) plastering which can be applied to HCB wall and concrete soffit Surface to Give More smooth surface adhesion and apply final finish of gypsum Plaster, liquid chemical as aprimer and apply final finish of gypsum Plaster on the Primer. Price shall include chemical, quality Gypsum primer paste, also any Preparation Work and all necessary works fill full the Job.	m ²	1,011.54
9.2	POINTING		
9.2.1	Cement pointing to H.C.B.wall surface (1:3).	m ²	220.97
9.2.2	Cement pointing to Brick.wall surface (1:3).	m ²	354.02
9.2.3	Cement pointing to stonemasonry.wall surface (1:3).	m ²	395.87
9.3	FLOORING		
9.3.1	2mm. thick PVC flooring. with Adhesive glue	m ²	1,848.80
9.3.2	10cmx10cmx10cm Coble Stone	m ²	4,183.62
9.3.3	3cm. Thick cement screed flooring	m ²	787.98
9.3.4	5cm. Thick cement screed flooring	m ²	1,162.73
9.3.5	10 mm thick Ceramic floor tile with Adhesive powder (Local)	m ²	3,647.87
9.3.6	9 mm thick Ceramic floor tile with Adhesive powder (Local)	m ²	3,545.87
9.3.7	8mm thick Ceramic floor tile with Adhesive powder (Local)	m ²	2,982.66
9.3.8	8mm thick Porcelain floor tile with adhesive powder	m ²	4,774.07
9.3.10	9mm thick Porcelain floor tile with adhesive powder	m ²	5,217.55
9.3.11	10mm thick Porcelain floor tile adhesive powder	m ²	5,780.77
9.3.12	supply and apply 2mm thick Epoxy resins floor topping with one coat primer coating.	m ²	3,000.00
9.3.13	supply and apply 3mm thick Epoxy resins floor topping with one coat primer coating.	m ²	4,100.00
9.3.14	supply and apply 5mm thick Epoxy resins floor topping with one coat primer coating.	m ²	5,500.00
9.3.15	supply and apply 2mm thick Epoxy resins floor topping with one coat primer coating.(price includes UV resistance work)	m ²	3,900.00
9.3.16	supply and apply 3mm thick Epoxy resins floor topping with one coat primer coating.(price includes UV resistance work)	m ²	5,000.00
9.3.17	supply and apply 5mm thick Epoxy resins floor topping with one coat primer coating.(price includes UV resistance work)	m ²	6,500.00
9.3.13	Terrazzo tile flooring size 40cm x 40cmx40mm thick for pedestrian with cement mortar bedding (1:3)	m ²	2,223.96
9.3.14	30mm thick Terrazzo tile flooring /ለቤት ውስጥ ወለል ንጥፍ አገልግሎት ብቻ/ (1:3) (Local)	m ²	2,162.61
9.3.15	20mm thick high quality polished Terrazzo tile flooring /ለቤት ውስጥ ወለል ንጥፍ አገልግሎት ብቻ/(1:3) (Local)	m ²	2,095.35

Prepared by :- Betelhem Amare.

Checked by :- Henok Abebe.

Approved by:- Hirut Ayalew





9	FINISHING WORKS	Unit	2018, 4th Quarter Direct Cost Only
9.3.24	1cm thick Granite flooring (1:3)(Local).	m ²	8,229.02
9.3.25	2cm thick Granite flooring (1:3)(Local).	m ²	8,529.02
9.3.26	3cm thick Granite flooring (1:3).(Local)	m ²	8,736.09
9.3.27	1cm thick Marble flooring (1:3).(Local)	m ²	7,145.01
9.3.28	2cm thick Marble flooring (1:3).(Local)	m ²	7,961.01
9.3.29	3cm thick Marble flooring (1:3)(Local).	m ²	7,925.51
9.3.30	Parquet (Tid) Flooring	m ²	3,519.62
9.4 WALL TILE CLADDING			
9.4.1	6mm thick Ceramic wall tiles with adhesive powder (Local)	m ²	2,921.40
9.4.1	8mm thick Ceramic wall tiles with adhesive powder (Local)	m ²	3,494.71
9.4.2	Supply and fix lay ceramic standard quality mosaic to external wall . Price includes adhesive powder bedding & white cement grouting.	m ²	8,443.93
9.4.3	20mm thick Marble wall Cladding (Cement mortar ratio1:2).(Local)	m ²	9,949.08
9.4.4	20mm thick Granite wall Cladding (Cement mortar ratio1:2).(Local)	m ²	10,684.08
9.4.5	2mm PVC wall tile type cladding by Animal glue	m ²	1,422.02
9.4.6	Aluminium cladding 4mm thick (Silver) with Adhesive (without T Frame)	m ²	4,062.78
9.4.7	Aluminium cladding 4mm thick (golden) with Adhesive (without T Frame)	m ²	4,587.78
9.4.6	Aluminium cladding 4mm thick (Silver) with Adhesive (with T Frame)	m ²	8,153.36
9.4.7	Aluminium cladding 4mm thick (golden) with Adhesive (with T Frame)	m ²	8,703.36
9.4.8	Ambo stone cladding for wall	m ²	4,733.52
9.4.8	Ambo stone cladding for column & right angle structure	m ²	6,775.19
9.5 WINDOW SILL(Local)			
9.5.1	30mm. Thick & 220mm width Marble window sill (1:3) on HCB.	ml	2,191.28
9.5.2	30mm. Thick & 280mm width Marble window sill (1:3) on HCB.	ml	2,596.28
9.5.3	30mm. Thick & 300mm width Marble window sill (1:3) on HCB.	ml	2,798.78
9.5.4	30mm. Thick & 470mm width Marble window sill (1:3) on HCB.	ml	3,946.28
9.5.5	30mm. Thick & 520mm width Marble window sill (1:3) on HCB.	ml	4,081.28
9.6 THREAD			
9.6.1 MARBLE THREAD (Local)			
9.6.1.1	280mm wide & 30mm. thick marble threads.(1:3)	ml	2,711.92
9.6.1.2	300mm wide & 30mm. thick marble threads.(1:3)	ml	2,849.62
9.6.1.3	330mm wide & 30mm. thick marble threads.(1:3)	ml	3,056.17
9.6.1.4	280mm wide & 20mm. thick marble threads.(1:3)	ml	2,669.08
9.6.1.5	300mm wide & 20mm. thick marble threads.(1:3)	ml	2,803.72
9.6.1.6	330mm wide & 20mm. thick marble threads.(1:3)	ml	3,005.68
9.6.2 GRANITE THREAD (Local)			
9.6.2.1	280mm.wide & 30mm thick Granite Treads .(1:3)	ml	2,816.97
9.6.2.2	300mm.wide & 30mm thick Granite Treads .(1:3)	ml	2,981.97
9.6.2.3	330mm.wide & 30mm thick Granite Tread .(1:3)	ml	3,229.47
9.6.2.4	280mm.wide & 20mm. thick Granite Tread .(1:3)	ml	2,755.37
9.6.2.5	300mm.wide & 20mm. thick Granite Tread .(1:3)	ml	2,915.97
9.6.2.6	330mm.wide & 20mm. thick Granite Tread .(1:3)	ml	3,156.87
9.6.3 TERRAZZO THREAD(Local)			
9.6.3.1	280mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	789.77
9.6.3.2	300mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	808.03
9.6.3.3	330mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	835.42
9.6.3.4	280mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	734.04
9.6.3.5	300mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	748.32
9.6.3.6	330mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	769.74

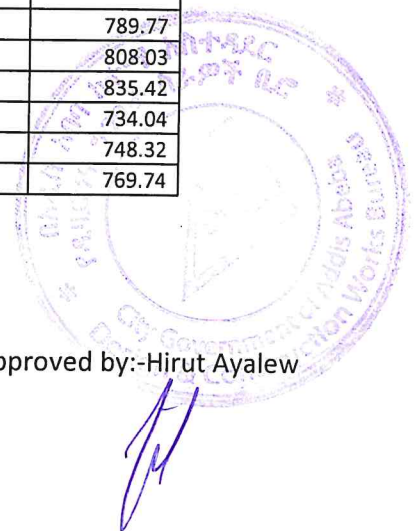
Prepared by :- Betelhem Amare.



Checked by :- Henok Abebe.



Approved by:-Hirut Ayalew

9	FINISHING WORKS	Unit	2018, 4th Quarter Direct Cost Only
9.7	RISER		
9.7.1	MARBLE RISER (Local)		
9.7.1.1	130mm wide & 20mm. thick marble riser. (1:3).	ml	1,207.67
9.7.1.2	150mm wide & 20mm. thick marble riser. (1:3).	ml	1,346.27
9.7.2	GRANITE RISER (Local)		
9.7.2.1	130mm wide & 20mm. thick Granite riser. (1:3)	ml	1,598.32
9.7.2.2	150mm wide & 20mm. thick Granite riser. (1:3)	ml	1,766.22
9.7.3	TERRAZZO RISER (Local)		
9.7.3.1	130mm wide & 30mm. Thick Terrazo riser. (1:3).	ml	422.42
9.7.3.2	130mm wide & 20mm. Thick Terrazo riser. (1:3).	ml	391.99
9.7.3.3	150mm wide & 20mm. Thick Terrazo riser. (1:3).	ml	411.77
9.8	Threshold (Local)		
9.8.1	Marble threshold		
9.8.1.1	20mm. Thick & 200mm wide Marble threshold.(1:3)	ml	1,736.72
9.8.1.2	20mm. thick & 250mm wide Marble threshold.(1:3)	ml	2,167.19
9.8.2	Granite threshold		
9.8.2.1	20mm. thick & 200mm wide Granite threshold.(1:3)	ml	1,979.72
9.8.2.2	20mm. thick & 250mm wide Granite threshold.(1:3)	ml	2,345.69
9.8.3	Terrazzo threshold		
9.8.3.1	20mm. thick & 200mm w.Terrazzo threshold. (1:3).	ml	478.55
9.8.3.2	20mm. thick & 250mm w. terrazzo threshold.(1:3)	ml	639.41
9.9	Skirting(Local)		
9.9.1	10cm. high PVC skirting 2mm thick	ml	213.38
9.9.2	20mm. thick terrazo skirting. (Local)	ml	211.11
9.9.3	10cm high 10mm thick Porcelain skirting	ml	721.07
9.9.4	100mm. high wooden skirting. (Local wood)	ml	1,048.90
9.9.5	10cm high 2cm thick granite skirting (Local)	ml	1,006.94
9.9.6	20mm Thick, 10cm high Marble skirting (Local)	ml	1,014.28
9.10	Copping(Local)		
	Marble coping		
9.10.1	300mm wide & 30mm. thick marble coping.(1:3)	ml	2,599.62
9.10.2	450mm wide & 30mm. thick marble coping.(1:3)	ml	3,632.37
9.10.3	300mm wide & 20mm. thick marble coping.(1:3)	ml	2,553.72
9.10.4	450mm wide & 20mm. thick marble coping.(1:3)	ml	3,563.52
9.11	Terrazzo coping		
9.11.1	300mm wide & 30mm. thick terrazzo coping.(1:3)	ml	806.10
9.11.2	450mm wide & 30mm. thick terrazzo coping.(1:3)	ml	942.40
9.11.3	300mm wide & 20mm. thick terrazzo coping.(1:3)	ml	725.23
9.11.4	450mm wide & 20mm. thick terrazzo coping.(1:3)	ml	821.10
	Ceramic flooring With Cement sand mortar(Local)		
9.11.5	10mm thick Ceramic floor with cement sand mortar (Local)	m ²	3,546.49
9.11.6	9mm thick Ceramic floor tile with cement sand mortal (Local)	m ²	3,444.49
9.11.7	8mm thick Ceramic floor tile with cement sand mortal (Local)	m ²	2,881.27
	Ceramic flooring With Cement sand mortar (Imported)		
9.11.8	10mm thick Ceramic floor with cement sand mortar (1:3)	m ²	4,362.49
9.11.9	10 mm thick Ceramic floor tile with Adhesive powder	m ²	4,287.25
9.11.10	9mm thick Ceramic floor with cement sand mortar (1:3)	m ²	3,966.12
9.11.11	8mm thick Ceramic floor with cement sand mortar (1:3)	m ²	3,660.12
	Porcelain flooring with cement sand mortar		
9.11.10	8mm thick Porcelain floor tile with cement sand morta (1:3)	m ²	4,459.30
9.11.11	9mm thick Porcelain floor tile with cement sand mortar (1:3)	m ²	4,911.72
9.11.12	10mm thick Porcelain floor tile with cement sand mortar (1:3)	m ²	5,484.49

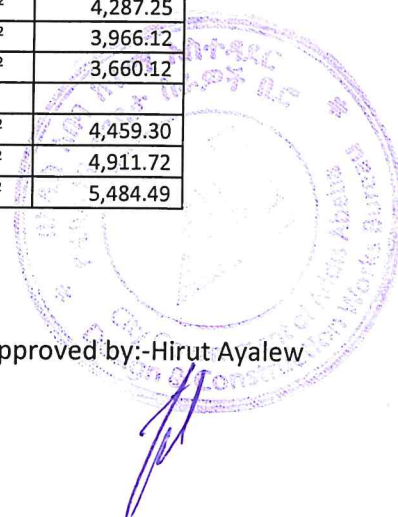
Prepared by :- Betelhem Amare.



Checked by :- Henok Abebe.



Approved by:-Hirut Ayalew

9	FINISHING WORKS	Unit	2018, 4th Quarter Direct Cost Only
	SPC floor		
9.11.13	SPC floor with foam	m ²	1,983.91
9.11.14	SPC Skirting	ml	375.00
	Flamed Granite(Local)		
9.11.15	Flamed Granite floor tile with cement sand mortal (1:3) (Local)	m ²	10,465.34
9.11.16	Flamed Granite floor tile with cement sand mortal (1:3) (imported)	m ²	11,184.09
	IMPORTED GRANITE		
9.11.17	Imported 1cm thick high quality Black Galaxy Granite with (1:3)(for wall cladding)	m ²	14,710.83
9.11.17	Imported 2cm thick high quality Black Galaxy Granite with (1:3)(for flooring)	m ²	20,745.29
9.11.17	Imported 3cm thick high quality Black Galaxy Granite with (1:3)(for flooring)	m ²	23,136.29
9.11.18	Imported 1cm thick high quality Granite (grey colour) with (1:3)(for wall cladding)	m ²	13,729.08
9.11.18	Imported 2cm thick high quality Granite (grey colour) with (1:3)(for flooring)	m ²	13,078.78
9.11.19	Imported 3cm thick high quality Granite (grey colour) with (1:3)(for flooring)	m ²	15,578.78
	IMPORTED GRANITE FOR KITCHEN CABINET		
9.11.18	2cm thick high quality standard Black Galaxy Granite for kitchen cabinet with all necessary works	m ²	19,659.20
	PORCELAINE SIZE:(120cmx60cmx1cm)		
9.11.19	Porcelain floor tile with adhesive powder, (size 120cmx60cmx1cm)	m ²	5,803.85
9.11.20	Porcelain floor tile with cement sand mortar (1:3) (size 120cmx60cmx1cm)	m ²	5,484.69

Prepared by :- Betelhem Amare.

Betelhem

Checked by :- Henok Abebe.

Henok

Approved by:-Hirut Ayalew

Hirut



10.0	PAINTING (WITHOUT SCAFFOLDING)	UNIT	2018E.C 4TH QUARTER (ONLY DIRECT COST)
10.1	SUPER PLASTIC PAINT		
10.1.1	Three coats of plastic paint to wall. Internal	m ²	222.76
10.1.2	Three coats of plastic paint to wall. External	m ²	226.12
10.1.3	Three coats of plastic paint to tyrolean & rendered wall. External	m ²	252.45
10.1.4	Three coats of plastic paint to Exposed column and beam	m ²	231.66
10.1.5	Three coats of plastic paint to chipwood ceiling.	m ²	237.32
10.1.6	Three coats of plastic paint to Plastered ceiling.	m ²	261.23
10.1.7	Three coats of plastic paint to fyzit ceiling.	m ²	231.66
10.1.8	Three coats of plastic paint to abujedid ceiling.	m ²	227.66
10.2	OIL (SYNTHETIC) PAINT		
10.2.1	Three coats of Oil (synthetic) paint to wall. Internal	m ²	321.32
10.2.2	Three coats of Oil (synthetic) paint to wall. External	m ²	325.30
10.2.3	Three coats of Oil (synthetic) paint to Expdosed column and beam	m ²	325.30
10.2.4	Three coats of synthetic paint to plastered soffit surface.	m ²	360.40
10.2.5	One coats of antirust two coats of synthetic enamel paint to ribbed sheet soffit	m ²	320.91
10.2.6	One coats of antirust two coats of synthetic enamel paint to metal surface	m ²	285.81
10.2.7	Three coats of varnish paint to wooden vertical surface	m ²	339.76
10.2.8	Three coats of varnish paint to wooden soffit	m ²	374.86
10.2.9	Two coats of Mica paint to internal plastered surface	m ²	319.36
10.2.10	Two coats of Mica paint to external plastered surface	m ²	333.99
10.2.11	Two coats of special aluminum paint to metal vertical surface.	m ²	297.66
10.2.12	Two coats of special antirust paint to GCIS & EGA roof cover	m ²	238.00
10.3	QUARTZ PAINT		
10.3.1	Quartz paint to Plastered surface	m ²	857.39
10.3.3	Lime paint /ኖራ ቀለም የተቀባ/	m ²	347.82
10.3.4	Supply and apply GRANITE PAINTING On external plastered wall surface. Price includes final coat of gypsum, primer painting, three coat of varnish and all the nessarry works.	m ²	969.19
10.3.5	Prepare the surface and apply Contextra (Texura Sparol) paint to plastered HCB wall surface. Price shall include premium acrylic wall putty, two coats of wall primer, two coats of perfex acrylic emulsion color by the enginers approval, two coats of clear weather guard and product must be browed from ISO 9001,14001 and 45001 certified company and it shall be confirmed by the Engineer.	m ²	979.11
10.4	JOTUN PAINTING OR EQUIVALENT		
10.4.1	For interior Areas(walls, exposed beams, columns, shear walls and RC ceiling) : Three coats of approved quality acrylic emulsion Matt finish. Painting System: Initial Coat (s): One coat of PVA Primer acrylic co-polymer emulsion. Finishing Coat (s): Two coats of acrylic copolymer emulsion as per ISO 3233,	m ²	235.00
10.4.2	For External Concrete, Plastered Surfaces JOTUN textotile system Paint System:	m ²	778.00




10.5	GLAZING		
10.5.1	Supply and fix 3mm clear glass.	m ²	1,927.65
10.5.2	Supply and fix 4mm clear glass.	m ²	2,180.65
10.5.3	Supply and fix 5mm clear glass.	m ²	2,992.57
10.5.4	Supply and fix 6mm clear glass.	m ²	4,131.07
10.5.5	Supply and fix 4mm Figured glass.	m ²	3,511.82
10.5.6	Supply and fix 5mm Figured glass.	m ²	4,207.57
10.5.7	Supply and fix 6mm Figured glass.	m ²	4,713.57
10.5.8	Supply and fix 3mm Frosted glass.	m ²	3,448.57
10.5.9	Supply and fix 4mm Frosted glass.	m ²	3,701.57
10.5.10	Supply and fix 5mm Frosted glass.	m ²	4,207.57
10.5.11	Supply and fix 6mm Frosted glass.	m ²	4,840.07
10.5.12	Supply and fix 4mm Tinted glass.	m ²	3,448.57
10.5.13	Supply and fix 5mm Tinted glass.	m ²	4,144.32
10.5.14	Supply and fix 6mm Tinted glass.	m ²	4,334.07
10.5.15	Supply and fix 4mm Reflected glass.	m ²	3,448.57
10.5.16	Supply and fix 5mm Reflected glass.	m ²	4,207.57
10.5.17	Supply and fix 6mm Reflected glass.	m ²	4,903.32
10.5.18	Supply and fix 6mm Laminated or security glass	m ²	6,611.07
10.5.19	Supply and fix 5mm Wired glass	m ²	4,840.07
10.5.20	Supply & fix 10mm thick Tempered Frameless partition wall with all necessary accessories such as U- frame edging and adhesive fix all silicon etc.	m ²	14,850.00
10.5.21	Supply & fix 10mm thick Tempered Frameless clear Glass Door. Unit Price includes specified anchor bolts all other necessary accessories. Double Leaf Door type.	m ²	17,050.00

Prepared by/ Checked by:- Henok Abebe



Approved by:- Hirut Ayalew




12.0	SANITARY INSTALLATION		
12.1	Hand wash basin		
12.1.1	HWB size 45 * 55 cm with all Accessories heavy duty flexbile (RAK)	PCS	20,030.53
12.1.2	HWB size 45 * 55 cm with all Accessories (Golden dragon sealed)	PCS	17,011.78
12.1.3	HWB size 40 * 50 cm with all Accessories (AQUA)	PCS	14,596.78
12.2	Low flash water closet		
12.2.1	Low flash WC with all accessories (RAK)	PCS	28,483.03
12.2.2	Low flash WC with all accessories (Golden dragon sealed)	PCS	26,671.78
12.2.3	Low flash WC with all accessories (AQUA)	PCS	19,185.28
12.2.4	Low flash WC with all accessories (Tabor ceramic)	PCS	9,404.53
12.2.5	Turkish type WC (RAK)	PCS	7,714.03
12.2.6	Turkish type WC (Tabor ceramic)	PCS	6,989.53
12.3	Urinal		
12.3.1	White glazed urinal with all accessories	PCS	10,383.12
12.3.2	Urinal with all accessories	PCS	10,383.12
12.4	Toilet paper holder		
12.4.1	Toilet paper holder	PCS	2,405.85
12.4.2	Toilet paper holder economy version	PCS	1,831.65
12.4.3	40 x 50 cm glass mirror	PCS	4,342.45
12.5	Soap holder		
12.5.1	Soap holder best quality	PCS	2,225.45
12.5.2	Soap holder economy version	PCS	1,474.70
12.6	Towel Hanger		
12.6.1	Supply and fix approved quality Towel Hanger made of chrome plated copper alloys, single tubular, surface mounted, bar length of 600mm near hand wash basin complete with fastening screws and other accessories.	PCS	2,292.67
12.6.2	Supply and fix medium quality Towel Hanger made of chrome plated copper alloys, single tubular, surface mounted, bar length of 600mm near hand wash basin complete with fastening screws and other accessories.	PCS	1,541.92
12.6.3	Supply and fix low quality Towel Hanger made of chrome plated copper alloys, single tubular, surface mounted, bar length of 600mm near hand wash basin complete with fastening screws and other accessories.	PCS	1,495.72
12.7	Shower units		
12.7.1	Supply and fix shower units made of enameled fiber glass, complete with level controlled mixing valve approved quality flexible shower head, P-smell trap and with all other necessary accessories. (70x70cm)	PCS	8,535.28
12.7.2	Supply and fix shower units made of enameled fiber glass, complete with level controlled mixing valve midium quality flexible shower head, P-smell trap and with all other necessary accessories. (70x70cm)	PCS	7,931.53
12.7.3	Supply and fix shower units made of enameled fiber glass, complete with level controlled mixing valve economic version flexible shower head, P-smell trap and with all other necessary accessories. (70x70cm)	PCS	7,690.03
12.7.4	Supply and fix shower units made of enameled cast iron, complete with level controlled mixing valve approved quality flexible shower head, P-smell trap and with all other necessary accessories. (70x70cm)	PCS	9,139.03
12.7.5	Supply and fix shower units made of enameled cast iron, complete with level controlled mixing valve economic version flexible shower head, P-smell trap and with all other necessary accessories. (70x70cm)	PCS	8,897.53




12.7.6	Shower box 90x90cm	PCS	40,000.00
12.7.7	Disabled Hand wash basin	PCS	38,971.15
12.7.8	Disabled Water Closet	PCS	33,847.90
12.7.9	Disabled Toilet (Disable HWB & Disable WC)	PCS	76,460.01
12.8	Bath Tab		
12.8.1	70x170cm Bath Tab with all accessories	PCS	51,170.22
12.8.2	70x170cm Bath Tab with all accessories midium quality	PCS	43,779.22
12.8.3	70x170cm Bath Tab with all accessories (fiber glass)	PCS	38,127.22
12.9	Kitchen sink		
12.9.1	Kitchen sink (double bowel) Italy	PCS	9,513.87
12.9.2	Kitchen sink (double bowel) AQUA	PCS	9,513.87
12.9.3	Kitchen sink (double bowel) Milano	PCS	8,427.12
12.9.4	Kitchen sink (Single bowel) AQUA	PCS	7,581.87
12.9.5	Kitchen sink (Single bowel) Milano	PCS	6,615.87
12.10	Water heater		
12.10.1	Instant Water heater	PCS	25,860.22
12.10.2	50lt Water heater ordinary	PCS	32,790.22
12.10.3	80lt Water heater ordinary	PCS	43,185.22
12.10.4	100lt Water heater ordinary	PCS	57,622.72
12.10.5	50lt Water heater (Ariston)	PCS	39,469.13
12.10.6	80lt Water heater (Ariston)	PCS	51,220.00
12.10.7	100lt Water heater (Ariston)	PCS	66,887.83
12.11	Floor drain		
12.11.1	Floor drain (100mm) (Chrome plated)	PCS	2,100.54
12.11.2	Floor drain (80mm) (Chrome plated)	PCS	2,033.88
12.11.3	Floor drain (50mm) (Chrome plated)	PCS	1,542.89
12.11.4	Dia. 110mm clean out waste water	PCS	1,261.64
12.11.5	Dia. 80mm clean out	PCS	1,097.51
12.11.6	Dia.50mm clean out	PCS	926.16
12.11.7	Precast cloth washing basin	PCS	5,582.16
12.12	PPR PIPE		
12.12.1	1/2" PPR Pipe	ml	357.10
12.12.2	3/4" PPR Pipe	ml	450.36
12.12.3	1" PPR Pipe	ml	817.80
12.12.4	1 1/4" PPR Pipe	ml	1,167.53
12.12.5	1 1/2" PPR Pipe	ml	2,240.03
12.12.6	2" PPR Pipe	ml	2,939.49
12.12.7	2 1/2" PPR Pipe	ml	3,405.79
12.12.8	3" PPR Pipe	ml	5,737.31





12.1	Galvanized Steel Pipe		
12.13.1	1/2" Galvanaized Steel Pipe (GSP) 15mm	ml	1,122.31
12.13.2	3/4" Galvanaized Steel Pipe (GSP) 20mm	ml	1,375.88
12.13.3	1" Galvanaized Steel Pipe (GSP) 25mm	ml	1,604.78
12.13.4	1 1/4" Galvanaized Steel Pipe (GSP) 32mm	ml	1,719.07
12.13.5	1 1/2" Galvanaized Steel Pipe (GSP) 40mm	ml	1,943.41
12.13.6	2" Galvanaized Steel Pipe (GSP) 50mm	ml	2,946.01
12.13.7	2 1/2" Galvanaized Steel Pipe (GSP) 63mm	ml	3,616.48
12.13.8	3" Galvanaized Steel Pipe (GSP) 75mm	ml	4,736.57
12.13.9	3 1/2" Galvanaized Steel Pipe (GSP)	ml	6,943.77
12.13.10	4" Galvanaized Steel Pipe (GSP)	ml	8,369.55
12.13.11	5" Galvanaized Steel Pipe (GSP)	ml	8,782.41
12.13.12	6" Galvanaized Steel Pipe (GSP)	ml	10,216.89
12.13.13	8" Galvanaized Steel Pipe (GSP)	ml	12,179.01
12.13.14	10" Galvanaized Steel Pipe (GSP)	ml	14,056.72
12.13.15	12" Galvanaized Steel Pipe (GSP)	ml	16,290.58
12.1	Cast iron Pipe		
12.14.1	3 1/2" Cast ironl Pipe (CIP)	ml	1,115.68
12.14.2	4" Cast ironl Pipe (CIP)	ml	1,860.98
12.14.3	5" Cast ironl Pipe (CIP)	ml	1,946.51
12.14.4	6" Cast ironl Pipe (CIP)	ml	2,043.08
12.14.5	8" Cast ironl Pipe (CIP)	ml	2,619.32
12.14.6	10" Cast ironl Pipe (CIP)	ml	3,118.83
12.14.7	12" Cast ironl Pipe (CIP)	ml	3,942.12
12.2	HDPE Pipe (PN 16)		
12.15.1	1/2" HDP Pipe	ml	1,476.21
12.15.2	3/4" HDP Pipe	ml	1,566.74
12.15.3	1"HDP Pipe	ml	1,643.20
12.15.4	1 1/4"HDP Pipe	ml	1,740.44
12.15.5	1 1/2"HDP Pipe	ml	1,934.58
12.15.6	2" HDP Pipe	ml	2,063.82
12.15.7	2 1/2" HDP Pipe	ml	2,317.96
12.15.8	3" HDP Pipe	ml	2,750.94
12.15.9	3.5" HDP Pipe	ml	3,411.71
12.15.10	4" HDP Pipe	ml	4,123.63
12.15.11	5" HDP Pipe	ml	4,374.14





12.2	BRONEZ Gate Valve		
12.19.1	BRONEZ Gate Valve PN 16 1/2"X20	PCS	1,483.19
12.19.2	BRONEZ Gate Valve PN 16 3/4"	PCS	1,917.97
12.19.3	BRONEZ Gate Valve PN 16 1"(25)	PCS	2,678.84
12.19.4	BRONEZ Gate Valve PN 16 32MM	PCS	3,983.19
12.19.5	BRONEZ Gate Valve PN 16 40MM	PCS	4,417.97
12.19.6	BRONEZ Gate Valve PN 16 2"	PCS	6,265.80
12.19.7	BRONEZ Gate Valve PN 16 2 1/2"	PCS	6,809.28
12.19.8	BRONEZ Gate Valve PN 16 3"	PCS	7,896.24
12.19.9	BRONEZ Gate Valve PN 16 3.5"	PCS	9,479.08
12.19.10	BRONEZ Gate Valve PN 16 4"	PCS	9,964.72
12.19.11	BRASS Gate Valve PN 16 3"	PCS	6,027.25
12.19.12	BRASS Gate Valve PN 16 2 1/2"	PCS	4,592.47
12.19.13	BRASS Gate Valve PN 16 1 1/2"	PCS	2,159.08
12.19.14	BRASS Gate Valve PN 16 2"	PCS	3,017.08
12.19.17	BRASS Gate Valve PN 16 4"	PCS	12,595.84
12.19.18	BRASS Gate Valve PN 16 3" two way	PCS	8,635.48
12.19.20	BRASS Gate Valve PN 16 4" two way	PCS	14,589.29
12.19.21	BRASS Gate Valve PN 16 5" two way	PCS	18,523.53
12.19.22	BRASS Gate Valve PN 16 6"	PCS	11,836.72
12.19.23	BRASS Gate Valve PN 16 8"	PCS	17,306.05
12.19.24	BRASS Gate Valve PN 16 10"	PCS	22,200.81
12.19.25	BRASS Gate Valve PN 16 12"	PCS	29,183.50
12.19.16	FLOAT VALVE Valve PN 16 2"(50)	PCS	1,275.95

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Approved by:-Hirut Ayalew




12.2	Cast iron Valve		
12.20.1	Cast iron Valve PN 16 90mm	PCS	20,248.44
12.20.2	Cast iron Valve PN 16 100mm	PCS	29,564.87
12.20.3	Cast iron Valve PN 16 150mm	PCS	37,475.66
12.20.4	Cast iron Valve PN 16 200mm	PCS	54,224.58
12.20.5	Cast iron Gate Valve PN 16 300mm	PCS	69,226.28
12.2	Water Meter		
12.21.2	25mm dia. Water Meter.	PCS	1,996.10
12.21.3	50mm dia. Water Meter.	PCS	4,763.38
12.2	UPVC Pipe (PN6) without Civil assistance works		
12.22.1	50 mm. dia. UPVC Pipe (without Civil works)	ml	490.73
12.22.2	65 mm. dia. UPVC Pipe (without Civil works)	ml	603.04
12.22.3	75 mm. dia. UPVC Pipe (without Civil works)	ml	664.50
12.22.4	110 mm. dia. UPVC Pipe (without Civil works)	ml	919.54
12.22.5	125 mm. dia. UPVC Pipe (without Civil works)	ml	1,190.92
12.22.6	160 mm. dia. UPVC Pipe (without Civil works)	ml	1,819.43
12.22.7	200 mm. dia. UPVC Pipe (without Civil works)	ml	2,215.01
12.22.8	225 mm. dia. UPVC Pipe (without Civil works)	ml	2,635.62
12.22.9	250 mm. dia. UPVC Pipe (without Civil works)	ml	4,297.16
12.22.10	315 mm. dia. UPVC Pipe (without Civil works)	ml	7,354.10
12.22.11	355 mm. dia. UPVC Pipe (without Civil works)	ml	8,579.79
12.22.12	400 mm. dia. UPVC Pipe (without Civil works)	ml	12,117.34
12.22.13	450 mm. dia. UPVC Pipe (without Civil works)	ml	13,329.08
12.22.14	500 mm. dia. UPVC Pipe (without Civil works)	ml	14,550.83
12.22.15	160 mm. dia. PERFORATED PIPE. Price shall include Geosynthetic, Damp proof, Gravel 40-50mm, Select material and Accessories	ml	4,978.02
12.2	Vent cap		
12.23.1	Dia. 50mm Vent cap	PCS	309.44
12.23.2	Dia. 80mm Vent cap	PCS	331.54
12.23.3	Dia. 100mm Vent cap	PCS	376.29
12.2	UPVC Pipe down pipe		
12.24.1	80 mm. dia. UPVC Pipe down pipe	ml	674.06
12.24.2	110 mm. dia. UPVC Pipe down pipe	ml	921.56
12.24.3	125 mm. dia. UPVC Pipe down pipe	ml	1,205.52
12.24.4	160 mm. dia. UPVC Pipe down pipe	ml	1,797.87
12.3	Water Proofing and Water stopper		
12.26.1	4mm thick approved quality	m ²	338.34
12.26.2	Xypex	m ²	399.00
12.26.3	PVC JOINT FILLER AND WATER STOPPER	m ²	520.00
12.26.4	CEMENTIOUS WATER PROOF	m ²	255.06
12.26.6	Soccer Field Irrigation System	PCS	769.19
12.26.7	PVC WATERSTOPS	ml	447.43
12.26.8	Polyurethane water proof coating	m ²	436.59
12.3	Curb stone		
12.32.1	Curb stone in C-25 size 150x400mm	ml	2,020.20
12.3	Water tank		
12.34.1	Polythylene water tank 750 lt capacity	No.	13,193.80
12.34.2	Polythylene water tank 1000 lt capacity	No.	14,572.66
12.34.3	Polythylene water tank 2000 lt capacity	No.	13,270.84
12.34.4	Polythylene water tank 5000 lt capacity	No.	26,600.16
12.34.5	Fiber glass water tank 500 lt capacity	No.	30,485.91
12.34.6	Fiber glass water tank 1000 lt capacity	No.	32,730.00
12.34.7	Fiber glass water tank 3000 lt capacity	No.	58,485.91
12.34.8	Fiber glass water tank 5000 lt capacity	No.	79,485.91
12.34.9	Fiber glass water tank 10000 lt capacity	No.	153,485.91
12.34.10	Fiber glass water tank 15000 lt capacity	No.	207,485.91
12.34.11	Fiber glass water tank 20000 lt capacity	No.	262,485.91
12.34.12	Fiber glass water tank 25000 lt capacity	No.	358,485.91





ITEM	DESCRIPTION	UNIT	2018 4TH QUARTER DIRECT COST
	DRAINAGE WORK		
	Supply and construct concrete pipe Half ditch with all civil assistance works.		
1	Half Dia.30cm concrete pipe.	ml	1377.47
2	Half Dia.40cm concrete pipe.	ml	1554.86
	Supply and construct concrete pipe closed ditch with all civil assistance works.		
1	Supply and lay Diameter 30 cm concrete pipe	ml	1474.07
2	Supply and lay Diameter 40 cm concrete pipe	ml	1576.07
3	Supply and lay Diameter 50 cm concrete pipe	ml	3304.19
4	Supply and lay Diameter 60 cm concrete pipe	ml	4324.19
5	Supply and lay Diameter 100 cm concrete pipe	ml	8614.59
	Supply and construct Reinforced concrete pipe closed ditch with all civil assistance works.		
1	Supply and lay Diameter 50 cm concrete pipe	ml	8436.59
2	Supply and lay Diameter 60 cm concrete pipe	ml	9456.59

Prepared by/ Checked by:- Henok Abebe



Approved by:-Hirut Ayalew



ITEM.NO.	DESCRIPTION	UNIT	2018 4th Quarter Direct Cost Only
	Foot path & General Paving works		
1	Foot path (side walk) brick (15*30*0.5) established and compressed during preparation and rough surface) coloured concrete block on cement stabilized sand base 50mm fine aggregate including any jointing work.	m ²	1899.98
2	Foot path (side walk) brick (15*30*0.5) established and compressed during preparation and rough surface) coloured concrete block on mortar bedding including any jointing work.	m ²	2617.24
3	Foot path (side walk) brick (I-section) established and compressed during preparation and rough surface) coloured concrete block on mortar bedding including any jointing work.	m ²	2601.59
4	Foot path (side walk) brick (I-section) Width =15 and 9cm length = 30cm and thickness = 5cm established and compressed during preparation and rough surface) coloured concrete block on sand bedding including any jointing work.	m ²	1885.05
5	Foot path (side walk) yellow tiles coloured concrete block on cement stabilized sand base 50mm fine aggregate including any jointing work.	m ²	2158.12
6	Foot path (side walk) yellow tiles coloured concrete block on mortar bedding including any jointing work.	m ²	2562.91
7	Foot path (side walk) Zig zag compressed precoloured concrete block on cement stabilized sand base 50mm fine aggregate including any jointing work.	m ²	2102.36

Prepared by/Checked by:-Henok Abebe



Approved by:- Hirut Ayalew




ROAD WORK MAIN ITEMS

ITEM NO	DESCRIPTION	UNIT	2018 4TH QUARTER DIRECT COST
1	Capping layer under the sub base layer(Granular) compacted to thickness of 200mm up to average 15km distance.	m ³	2,563.95
2	Gravel sub base compacted to 96% AACRA test S-11 Density (Compacted layer of maximum 150mm) up to average 15km.	m ³	4,401.11
3	Base course compacted to 96% AACRA test S-11 Density (Compacted layer of maximum 150mm) up to average 15km.	m ³	4,544.50



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Approved by:-Hirut Ayalew

No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018 , 4th QUARTER ELECTRICAL WORK DIRECT COST
	ELECTRICAL WORK		
a	16A/1ph digital kilowatt meter	No.	10,080.00
b	25A/3ph digital kilowatt meter	No.	15,225.00
c	32A/3ph digital kilowatt meter	No.	15,225.00
d	63A/3ph digital kilowatt meter	No.	17,325.00
1.00	B)Surface mounted distribution board of metal inclosure MDB-LP with lockable door, complete with bus bar terminals 320A/3ph,neutral and earth bars, and consisting of :-		-
1.1.1	V) Floor standing distribution board of metal inclosure MDB-EV with lockable door, complete with bus bar terminals 2500A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main ACB of 2000A/3ph		-
	1 pc RCD of 300mA/4pole		-
	2 pc MCCB of 500A/3ph		-
	3 pc MCCB of 320A/3ph		-
	1 pc MCCB of 250A/3ph		-
	25% reserve pitches	set	702,145.60
1.1.2	A) Floor standing Factory made indoor distribution board with IP 44 with lockable door of hinged joints,including three phase bars of 800 Amp rating with separate neutral and earthing bars,connection and mounting accessories; complete with mounting rails for circuit breakers and labels to be made circuit numbers and spare spaces for future expansions of three modules minimum, TRI poles. All internal connections made in compliance with appropriate local and international standards to which references need to be made accordingly. and The distribution pillar shall be on the concrete pad with all necessary accessories Central Main Distribution Board, CMDDB and consisting of :-		
	1 pc main MCCB of 630A/3ph		
	1 pc MCCB of 400A/3ph		
	1 pc MCCB of 250A/3ph		
	1 pc MCB of 40A/3ph		
	1pc surge arrestor of 100KA		
	3Pcs ammeters: 0-630A		
	3Pcs current transformers: 630/5A		
	1pc of voltmeter with selector switch (0-500V)		
	with 4P+E busbar 800A		
	1pc factory made drawing pocket and marking tags for all outgoing.all complete with 40% reserve spaces.	set	205,182.60
	B)Surface mounted distribution board of metal inclosure MDB-LP with lockable door, complete with bus bar terminals 320A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 250A/3ph		-
	1 pc RCD of 100mA/4pole		-
	4 pcs MCB of 25A/3ph		-
	1 pc MCB of 32A/3ph		-
	1 pc MCB of 40A/3ph		-
	2 pc MCB of 80A/3ph		-
	25% reserve pitches	set	97,029.36
1.1.3	C)Surface mounted distribution board of metal inclosure SDB-LP/GF/A with lockable door, complete with bus bar terminals 100A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 80A/3ph		-
	1 pc RCD of 100mA/4pole		-
	6 pcs MCB of 10A/1ph		-
	2 pc MCB of 16A/1ph		-
	5 pc MCB of 25A/1ph		-
	2 pc MCB of 40A/3ph		-
	25% reserve pitches	set	59,881.36
1.1.4	D)Surface mounted distribution board of metal inclosure SDB-LP/GF/B with lockable door, complete with bus bar terminals 100A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 80A/3ph		-
	1 pc RCD of 100mA/4pole		-
	2 pcs MCB of 10A/1ph		-
	7 pc MCB of 16A/1ph		-
	2 pc MCB of 40A/3ph		-
	25% reserve pitches	set	92,826.68
1.1.5	E) Flush mounted distribution board of metal inclosure SDB-SH1/GF = SDB-SH7GF with lockable door, complete with bus bar terminals 32A/1ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 25A/1ph, with 25A/1ph digital kilo watt meter		-
	1 pc RCD of 30mA/2pole		-
	1 pc MCB of 10A/1ph		-
	1 pc MCB of 16A/1ph		-
	25% reserve pitches	set	29,963.68
1.1.6	F)Surface mounted distribution board of metal inclosure SDB-LP/1BF/A with lockable door, complete with bus bar terminals 32A/3ph,neutral and earth bars, and consisting of :-		

Mamush Lema



Henok Abebe



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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018, 4th QUARTER ELECTRICAL WORK DIRECT COST
	1 pc main MCB of 25A/3ph		-
	1 pc RCD of 30mA/4pole		-
	8 pcs MCB of 10A/1ph		-
	4 pc MCB of 16A/1ph		-
	25% reserve pitches	set	28,539.68
1.1.7	G)Surface mounted distribution board of metal inclosure SDB-LP/1BF/B with lockable door, complete with bus bar terminals 40A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 32A/3ph		-
	1 pc RCD of 30mA/4pole		-
	9 pcs MCB of 10A/1ph		-
	4 pc MCB of 16A/1ph		-
	3 pc MCB of 25A/1ph		-
	25% reserve pitches	set	31,419.68
1.1.8	I)Surface mounted distribution board of metal inclosure SDB-LP/2BF/A with lockable door, complete with bus bar terminals 32A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 25A/3ph		-
	1 pc RCD of 30mA/4pole		-
	7 pcs MCB of 10A/1ph		-
	4 pc MCB of 16A/1ph		-
	25% reserve pitches	set	29,069.68
1.1.9	K)Surface mounted distribution board of metal inclosure SDB-LP/3BF with lockable door, complete with bus bar terminals 32A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 25A/3ph		-
	1 pc RCD of 30mA/4pole		-
	13 pcs MCB of 10A/1ph		-
	4 pc MCB of 16A/1ph		-
	25% reserve pitches	set	31,389.68
1.1.10	L)Surface mounted distribution board of metal inclosure SDB-KCH/3BF with lockable door, complete with bus bar terminals 50A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 40A/3ph		-
	1 pc RCD of 30mA/4pole		-
	4 pcs MCB of 10A/1ph		-
	7 pc MCB of 16A/1ph		-
	1 pc MCB of 20A/1ph		-
	1 pc MCB of 25A/1ph		-
	1 pc MCB of 20A/3ph		-
	25% reserve pitches	set	36,895.36
1.1.11	M)Surface mounted distribution board of metal inclosure MDB-UPS with lockable door, complete with bus bar terminals 50A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 40A/3ph		-
	1 pc RCD of 30mA/4pole		-
	3 pcs MCB of 16A/1ph		-
	8 pcs MCB of 20A/1ph		-
	2 pcs MCB of 25A/3ph		-
	25% reserve pitches	set	35,895.68
1.1.12	N) Flush mounted distribution board of metal inclosure SDB-UPS/GF = SDB-UPS/3BF with lockable door, complete with bus bar terminals 32A/1ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCB of 25A/1ph		-
	1 pc RCD of 30mA/2pole		-
	14 pcs MCB of 16A/1ph		-
	25% reserve pitches	set	28,303.68
1.1.13	O)Surface mounted distribution board of metal inclosure MDB-MP with lockable door, complete with bus bar terminals 500A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 400A/3ph		-
	1 pc RCD of 300mA/4pole		-
	1 pcs MCCB of 250A/3ph		-
	2 pcs MCCB of 63A/3ph		-
	3 pcs MCB of 40A/3ph		-
	25% reserve pitches	set	142,709.60
1.1.14	P)Surface mounted distribution board of metal inclosure SDB-MP/1BF/A with lockable door, complete with bus bar terminals 80A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 63A/3ph		-
	1 pc RCD of 30mA/4pole		-

Mamush Lema

Henok Abebe

Hirut Ayalew

No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018, 4th QUARTER ELECTRICAL WORK DIRECT COST
	7 pcs RCBO of 20A/3ph, Icu 6KA		-
	4 pcs RCBO of 32A/3ph, Icu 6KA		-
	25% reserve pitches	set	60,302.38
			-
1.1.15	Q)Surface mounted distribution board of metal inclosure SDB-MP/1BF/B with lockable door, complete with bus bar terminals 50A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 40A/3ph		-
	1 pc RCD of 30mA/4pole		-
	6 pcs RCBO of 20A/3ph, Icu 6KA		-
	2 pcs RCBO of 32A/3ph, Icu 6KA		-
	25% reserve pitches	set	57,754.88
			-
1.1.16	R)Surface mounted distribution board of metal inclosure SDB-MP/2BF/A with lockable door, complete with bus bar terminals 80A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 63A/3ph		-
	1 pc RCD of 30mA/4pole		-
	6 pcs RCBO of 20A/3ph, Icu 6KA		-
	4 pcs RCBO of 32A/3ph, Icu 6KA		-
	25% reserve pitches	set	63,972.18
1.1.17	U)Surface mounted distribution board of metal inclosure SDB-PUMP with lockable door, complete with bus bar terminals 320A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 250A/3ph		-
	1 pc RCD of 100mA/4pole		-
	2 pcs RCBO of 20A/3ph, Icu 6KA		-
	1 pc RCBO of 32A/3ph, Icu 6KA		-
	1 pc RCBO of 200A/3ph, Icu 6KA		-
	1 pc MCB of 16A/1ph		-
	1 pc MCB of 10A/1ph		-
	25% reserve pitches	set	114,433.31
			-
1.1.18	W)Surface mounted distribution board of metal inclosure SDB-EV/GF with lockable door, complete with bus bar terminals 400A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 320A/3ph		-
	1 pc RCD of 100mA/4pole		-
	8 pcs MCB of 50A/3ph		-
	25% reserve pitches	set	108,563.36
			-
1.1.19	X)Surface mounted distribution board of metal inclosure SDB-EV/1BF/A with lockable door, complete with bus bar terminals 630A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 500A/3ph		-
	1 pc RCD of 100mA/4pole		-
	12 pcs MCB of 50A/3ph		-
	25% reserve pitches	set	144,851.36
			-
1.1.20	Y)Surface mounted distribution board of metal inclosure SDB-EV/1BF/B with lockable door, complete with bus bar terminals 320A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 250A/3ph		-
	1 pc RCD of 100mA/4pole		-
	6 pcs MCB of 50A/3ph		-
	25% reserve pitches	set	85,299.36
			-
1.1.21	A-A)Surface mounted distribution board of metal inclosure SDB-EV/2BF/B with lockable door, complete with bus bar terminals 400A/3ph,neutral and earth bars, and consisting of :-		-
	1 pc main MCCB of 320A/3ph		-
	1 pc RCD of 100mA/4pole		-
	7 pcs MCB of 50A/3ph		-
	25% reserve pitches	set	109,931.36
1.1.21	A) Floor standing Factory made indoor distribution board with IP 44 with lockable door of hinged joints,including three phase bars of 800 Amp rating with separate neutral and earthing bars,connection and mounting accessories; complete with mounting rails for circuit breakers and labels to be made circuit numbers and spare spaces for future expansions of three modules minimum, TRI poles. All internal connections made in compliance with appropriate local and international standards to which references need to be made accordingly. and The distribution pillar shall be on the concrete pad with all necessary accessories Central Main Distribution Board, CMDB and consisting of :-		-
			-
	1 pc main MCCB of 630A/3ph		-
	1 pc MCCB of 500A/3ph		-

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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018, 4th QUARTER ELECTRICAL WORK DIRECT COST
	1 pc MCCB of 160A/3ph		
	1 pc MCB of 50A/3ph		
	1pc surge arrestor of 100KA		
	3Pcs ammeters: 0-630A		
	3Pcs current transformers: 630/5A		
	1pc of voltmeter with selector switch (0-500V)		
	with 4P+E busbar 800A		
	1pc factory made drawing pocket and marking tags for all outgoing.all complete with 40% reserve spaces.	set	291,661.90
1.1.22	B) Floor standing distribution board of metal inclosure MDB-EV/1BF with lockable door, complete with bus bar terminals 1600A/3ph,neutral and earth bars, and consisting of :-		
	1 pc main MCCB of 1250A/3ph		
	1 pc RCD of 500mA/4pole		
	10 pcs MCB of 40A/1ph		
	10 pcs MCB of 50A/3ph		
	1 pc main MCCB of 250A/3ph		
	1 pc main MCCB of 500A/3ph		
	40% reserve pitches	set	525,808.40
1.1.23	Semi-Flush Mounted Distribution Board (SDB-PM)		
	Semi-Flush Mounted Distribution Board (SDB-PM)		
	1pcs 80A/3ph Main breaker		
	3pcs 40A/3ph		
	3pcs 32A/3ph		
	Bus Bar System (80A rated)		
	accessories	set	63,081.85
2.00	Light point		
2.1.1	Conductor (2x2.5mm²) with 10 meter Average distance		
	PVC condute 16mm		
	Junction Box		
	Connector	PCS	3,752.54
2.1.2	Conductor (3x2.5mm²) with 10 meter Average distance		
	PVC condute 16mm		
	Junction Box		
	Connector	PCS	4,882.94
2.1.3	Conductor (3x4mm²) with 10 meter Average distance		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	6,287.34
2.1.4	Conductor (3x4mm²) with 10 meter Average distance		
	PVC condute 50mm		
	Junction Box		
	Connector	PCS	7,241.64
3.00	Cable Installation Light point		
3.1.1	Power cable (3x4mm²) with 10 meter Average distance		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	6,453.94
3.1.2	Power cable (3x6mm²) with 10 meter Average distance		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	9,852.64
3.1.3	Power cable(5x4mm²) with 10 meter average point length		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	9,156.94
3.1.4	Power cable (2x2.5mm²) with 10 meter Average distance		
	PVC condute 16mm		
	Junction Box		
	Connector	PCS	3,665.64
3.1.5	Power cable (3x2.5mm²) with 10 meter Average distance		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	4,852.64
3.1.6	Power cable (5x2.5mm²) with 10 meter Average distance		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	6,548.24
4.00	SWITCHES		
4.1.1	Normal switch	pcs	317.90
4.1.2	Flush mounted single switch 774001+774041	PCS	517.14

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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018 , 4th QUARTER ELECTRICAL WORK DIRECT COST
4.1.3	Flush mounted 2 gang single switch ,774005+774041	PCS	641.01
4.1.4	Flush mounted 2 gang two way switch ,774005+774041	PCS	641.01
4.1.5	Flush mounted two way switch, 774006+774041	PCS	517.14
4.1.6	Triple switch	PCS	736.93
4.1.7	Intermediate switch	PCS	576.14
5.00	Socket outlet point		
5.1.1	Power cable (3x4mm ²) with 10 meter Average distance PVC conduit 25mm Junction Box Connector	PCS	6,443.94
5.1.2	Power cable (3x6mm ²) with 10 meter Average distance PVC conduit 25mm Junction Box Connector	PCS	9,852.64
5.1.3	Power cable (3x2.5mm ²) with 10 meter Average distance PVC conduit 16mm Junction Box Connector	PCS	4,672.64
5.1.4	Power cable (3x2.5mm ²) with 10 meter Average distance PVC conduit 25mm Junction Box Connector	PCS	4,852.64
5.1.5	Power cable (5x2.5mm ²) with 10 meter Average distance Conduit (32mm) Junction Box Connector	PCS	6,641.24
6.00	Power outlet point		
6.1.1	16A/1P or 25A/1P power outlet points fed through PVC sheathed Cable of 3x2.5mm ² inside PVC conduit of 16mm diameter including junction boxes with covers and insulating screw cap connectors.reserve for fan outlets (25m Average Distance)	PCS	9,856.27
6.1.3	16A/1P or 25A/1P outlet points fed through PVC sheathed and PVC insulated cable of 3x4mm ² inside PVC conduit 25mm diameter with all accessories for surface installation including surface mounting junction boxes with covers and insulating screw cap connectors.(10m Average Distance)	PCS	5,995.22
6.1.4	16A/3P or 25A/3P power outlet points fed through PVC sheathed and PVC insulated cable of 3x6mm ² inside PVC conduit 25mm diameter with all accessories for surface installation including surface mounting junction boxes with covers and insulating screw cap connectors. (10m Average Distance)	PCS	9,676.61
6.1.5	32A/3P power outlet points for Confrence AHU Chiller fed through PVC sheathed Cable of 5x6mm ² inside PVC conduit of 32m diameter including junction boxes with covers and insulating screw cap connectors. (10m Average Distance)	PCS	15,567.97
6.1.6	32A/3P power outlet points fed through PVC sheathed and PVC insulated cable of 3x10mm ² inside PVC Conduit 32mm diameter with all accessories for surface installation including surface mounting junction boxes with covers and insulating screw cap connectors.(length ave=10m)	PCS	15,564.90
6.1.7	50A/3p Power outlet point for Lift machine fed through PVC sheathed cable of 5x10 sqmm in PVC conduits of 50mm diameter including junction boxes with covers and insulating screw cap connectors.(10m Average Distance)	PCS	24,939.56
7.00	EXTRA OVER SOCKET OUTLETS		
7.1.1	Single socket economic /ሰኬት /	PCS	294.36
7.1.2	Flush mounting single socket of 10A/1P,	PCS	568.11
7.1.3	FLUSH MOUNTED Socket outlet	PCS	568.11
7.1.4	FLUSH MOUNTED Socket outlet twin	PCS	590.81
7.1.5	FLUSH MOUNTED Socket outlet 20A/1P	PCS	1,848.57
7.1.6	FLUSH MOUNTED Socket outlet for water heater	PCS	859.62

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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018, 4th QUARTER ELECTRICAL WORK DIRECT COST
7.1.7	Industrial type Socket outlet of 16A/1P, Legrand p 17 tempra, 55553	PCS	3,159.05
7.1.8	INDUSRIAL TYPE Socket outlet of 32A/3P, Legrand p 17 tempra, 55558	PCS	3,782.05
8.00	Standard LED Light Fitting and Lamps		
8.1.1	Panel LED 30x30 24W 2400lm 110 lm/W 3000K	PCS	1,139.66
8.1.2	Panel LED 30x60 36W 3600lm If 30000hr 3000-4000k	PCS	3,314.20
8.1.3	Panel LED 60x60 48W 4800lm If 30000hr 3500-4000k	PCS	3,401.39
8.1.4	Panel LED 30x120 36W 3860lm If 30000hr 4000k	PCS	3,867.05
8.1.5	Panel LED 60x120 60W 6000lm If 35000hr 4000-6000k	PCS	4,932.73
8.1.6	Phillips Fluorescent with Luminaire / LED Light		
8.1.6.1	Type 1 x 18 Watt	PCS	2,630.87
8.1.6.2	Type 2 x 18 Watt (Lower)	PCS	3,955.87
8.1.6.3	Type 3 x 18 Watt	PCS	5,655.87
8.1.6.4	Type 4 x 18 Watt (Lower)	PCS	6,455.87
8.1.6.5	Type 1 x 36 Watt	PCS	3,955.87
8.1.6.6	Type 2 x 36 Watt (Lower)	PCS	5,155.87
8.1.6.7	TMW 065/1-36 with 1 x TLD 36 Watt	PCS	5,655.87
8.1.6.8	emergency lamp with 3hr kit	PCS	5,657.01
8.1.6.9	Directional led Sign light 	PCS	4,162.67
8.20	Gate column and JKF Light		
8.2.1	Gate column Light With lamp 	PCS	2,415.36
8.2.2	Gate column Light With lamp 	PCS	4,162.67
8.2.3	Gate column Light With lamp 	PCS	4,162.67
8.2.4	Gate column Light With lamp 	PCS	5,936.58
8.2.4	JKF Water proof 6 way 3up and 3down white oval led light 	PCS	1,235.71
8.2.5	JKF Water proof 8 way 4up and outdoor warm white oval led light 	PCS	1,617.16

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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018 , 4th QUARTER ELECTRICAL WORK DIRECT COST
8.2.6	JKF Water proof 10 way 5up and white oval led 	PCS	2,007.36
8.2.7	Water proof 6 way 3up and 3down Neon strip outdoor warm white led light 	PCS	2,388.76
8.2.8	JKF Water proof 8 way 4up and warm white oval led light 	PCS	1,856.58
8.2.9	JKF Water proof 6 outdoor warm white way 3up and 3down led light 	PCS	1,856.58
8.30	High Quality Standard LED Light Fitting and Lamps		
8.3.1	Panel LED 30x30 24W 2400lm 110 lm/W 3000K	PCS	2,297.05
8.3.2	Panel LED 30x60 36W 3600lm lf 30000hr 3000-4000k	PCS	3,467.05
8.3.3	Panel LED 60x60 48W 4800lm lf 30000hr 3500-4000k	PCS	6,819.05
8.3.4	Panel LED 60x120 60W 6000lm lf 35000hr 4000-6000k	PCS	7,057.05
8.40	Led Flood Light (Pawza), korma		
8.4.1	Led Flood Light (Pawza) 50w	PCS	3,250.00
8.4.2	Led Flood Light (Pawza) 100w	PCS	4,250.00
	Led Flood Light (Pawza)150w	PCS	6,850.00
8.4.3	Led Flood Light (Pawza) 200w	PCS	8,150.00
9.00	Lightning Protection System		
9.1.1	Early Streamer Emmision(ESE) Protector SI 40,with mounting 5m mast to be mountied on top of the flood light pole of H=53m and all necessary connecting acessories.	PCS	244,810.88
9.1.2	Early Streamer Emmision(ESE) Protector SI 60 ,with mounting 5m mast to be mountied on top of the flood light pole of H=53m and all necessary connecting acessories.	PCS	262,060.88
9.1.3	Early Streamer Emmision(ESE) Protector SI 70 ,with mounting 5m mast to be mountied on top of the flood light pole of H=53m and all necessary connecting acessories.	PCS	262,060.88
9.1.4	Early Streamer Emmision(ESE) Protector SI 125 ,with mounting 5m mast to be mountied on top of the flood light pole of H=53m and all necessary connecting acessories.	PCS	279,310.88
9.1.5	16mm Air Termination circular galvanized steel rod 1.0m length	PCS	1,954.09
9.1.6	25 x 3mm insulated copper tape with vertical supportings every 1m to the pole & all the necessary accessories coordinate the routing of down conductors with the pole external skin and architectural features.	ml	5,482.76
9.1.7	1x70mm.sq galvanized Steel earth conductor ring as indicated on the drawing	ml	531.71
9.1.8	30x3.5mm galvanized steel ring earth termination net work.	ml	902.64
9.1.9	1500mm long and 50x50x3mm X-head galvanized steel earth rod including all connecting accessories.	PCS	6,791.12
9.1.10	Bonding materials for down conductor with air termination		
	Bonding materials to roof conductors holder		
	Bonding down conductor		
	Distance holders for earth termination	PCS	135,975.46
9.1.11	Equipotential (Earthing) bonding copper bar 1500x50x10mm size with 7 bolted terminal ³ RHS 40X20X2MM ³ ELECTODE ³ Bolt & Nuts	PCS	68,874.15

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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018 , 4th QUARTER ELECTRICAL WORK DIRECT COST
9.20	Low voltage earthing System bare copper conductor		
9.2.1	1x185mm. Sq. Bare copper bonding conductor	ml	2,644.09
9.2.2	1x150mm. Sq. Bare copper bonding conductor	ml	2,444.09
9.2.3	1x120mm. Sq. Bare copper bonding conductor	ml	2,114.09
9.2.4	1x70mm. Sq. Bare copper bonding conductor	ml	1,748.03
9.2.5	1x50mm. Sq. Bare copper bonding conductor	ml	1,314.70
9.2.6	1x25mm. Sq. Bare copper bonding conductor	ml	975.68
9.2.7	1x16mm. Sq. Bare copper bonding conductor	ml	975.68
9.2.8	1x10mm. Sq. Bare copper bonding conductor	ml	609.80
9.2.9	1x6mm. Sq. Bare copper bonding conductor	ml	407.84
9.30	Earthing rod		
9.3.1	2400x16mm copper earth rod	PCS	4,841.92
9.3.2	1500x16mm copper earth rod	PCS	3,994.09
9.3.3	3000x20mm copper earth rod	PCS	7,061.20
10.00	Feeder Cables (POWER CABLE 0.6/1KV)		
10.1.1	2x2.5 sq.mm Cable	ml	275.46
10.1.2	3x2.5 sq.mm Cable	ml	389.59
10.1.3	3x4 sq.mm Cable	ml	556.68
10.1.4	3x6sq.mm Cable	ml	914.59
10.1.5	3x10sq.mm Cable	ml	1,489.80
10.1.6	5x4sq.mm Cable	ml	855.66
10.1.7	5x6sq.mm Cable	ml	1,455.60
10.1.8	5x10sq.mm Cable	ml	2,286.47
10.1.9	5x16sqmm Cable	ml	3,872.50
10.1.10	2x2.5sqmm Cable with conduit 16mm	ml	387.50
10.1.11	3x4sqmm Cable with conduit 20mm	ml	668.72
10.1.12	3x6sqmm Cable with conduit 25mm	ml	1,031.89
10.1.13	3x10sqmm Cable with conduit 32mm	ml	1,633.35
10.1.14	5x4sqmm Cable conduit 25mm	ml	946.74
10.1.15	5x 6sqmm Cable conduit 32mm	ml	1,528.35
10.1.16	5x10sqmm Cable conduit 36mm	ml	2,364.47
10.1.17	5x16sqmm Cable conduit 50mm	ml	4,009.45
10.1.18	3x25/16	ml	4,237.72
10.1.19	3x35/16	ml	5,607.29
10.1.20	3x95/50	ml	13,915.98
10.1.21	3x240/120	ml	35,783.38
10.1.22	3x70/35+35sq.mm	ml	12,582.94

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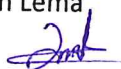


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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018, 4th QUARTER ELECTRICAL WORK DIRECT COST
10.1.23	3x50/25+1x25sq.mm	ml	8,090.76
10.1.24	3x25/16+1x16sq.mm	ml	4,963.59
10.1.25	3x35/16+1x16sq.mm	ml	6,333.15
10.1.26	3x120/70+1x70 sq.mm	ml	21,265.98
10.1.27	3x150/70+1x70 sq.mm	ml	24,918.15
10.1.28	3x185/95+1x95 sq.mm	ml	33,226.85
10.1.29	3x240/120+1x120 sq.mm	ml	40,764.68
10.1.30	3x300/150+1x150 sq.mm	ml	47,247.29
10.1.31	1x150sq.mm	ml	6,214.46
10.1.32	1x70sq.mm	ml	2,873.44
10.1.33	1x25sq.mm	ml	1,076.16
10.1.34	1x16sq.mm	ml	804.53
11.00	Conduits and Pipes		
11.1.1	Flexible pvc Pipe (Corrugated conduit) dia16mm	ml	56.34
11.1.2	Flexible pvc Pipe (Corrugated conduit) dia 25mm	ml	76.31
11.1.3	Flexible pvc (Corrugated conduit) dia 32mm	ml	107.09
11.1.4	Flexible pvc (Corrugated conduit) dia 50mm	ml	145.50
11.1.5	PVC Pipe Dia(Rgid conduit) 16mm	ml	43.21
11.1.6	PVC Pipe (Rgid conduit) Dia 25mm	ml	43.21
11.1.7	PVC Pipe Dia 32mm	ml	93.09
11.1.8	PVC Pipe Dia 36mm	ml	98.34
11.1.9	PVC Pipe Dia50mm	ml	173.65
11.1.10	PVC Pipe Dia75mm	ml	204.08
11.1.11	PVC Pipe Dia80mm	ml	325.31
11.1.12	PVC Pipe Dia110mm	ml	375.02
11.1.13	PVC Pipe Dia160mm	ml	938.07
11.1.14	PVC Pipe Dia 200mm	ml	1,135.89

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No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018, 4th QUARTER ELECTRICAL WORK DIRECT COST
12.00	High Quality Feeder Cable with outer insulation marking tag of XLPE like (2X..Y, 2X..2Y, 2X..H, 2X..SWAY insulation sheath type), FR, FRLS, LSHF		
12.1.1	2x2.5 sq.mm Cable	ml	456.70
12.1.2	3x2.5 sq.mm Cable	ml	566.95
12.1.3	3x4 sq.mm Cable	ml	847.30
12.1.4	3x6sq.mm Cable	ml	1,170.70
12.1.5	3x10sq.mm Cable	ml	1,774.45
12.1.6	5x4sq.mm Cable	ml	841.54
12.1.7	5x6sq.mm Cable	ml	1,685.20
12.1.8	5x10sq.mm Cable	ml	3,026.49
12.1.9	5x16sqmm Cable	ml	4,658.13
12.1.10	2x2.5sqmm Cable with conduit 16mm	ml	517.74
12.1.11	3x4sqmm Cable with conduit 20mm	ml	908.34
12.1.12	3x6sqmm Cable with conduit 25mm	ml	1,236.99
12.1.13	3x10sqmm Cable with conduit 32mm	ml	1,866.99
12.1.14	5x4sqmm Cable conduit 25mm	ml	913.09
12.1.15	5x 6sqmm Cable conduit 32mm	ml	1,777.74
12.1.16	5x10sqmm Cable conduit 36mm	ml	3,094.49
12.1.17	5x16sqmm Cable conduit 50mm	ml	4,795.08
12.1.18	3x25/16	ml	5,134.98
12.1.19	3x35/16	ml	6,373.98
12.1.20	3x95/50	ml	15,071.13
12.1.21	3x240/120	ml	40,554.67
12.1.22	3x70/35+35sq.mm	ml	14,432.51
12.1.23	3x50/25+1x25sq.mm	ml	9,669.93
12.1.24	3x25/16+1x16sq.mm	ml	5,833.72
12.1.25	3x35/16+1x16sq.mm	ml	7,072.72
12.1.26	3x120/70+1x70 sq.mm	ml	25,882.36
12.1.27	3x150/70+1x70 sq.mm	ml	29,718.68
12.1.28	3x185/95+1x95 sq.mm	ml	33,811.05
12.1.29	3x240/120+1x120 sq.mm	ml	50,451.93
12.1.30	3x300/150+1x150 sq.mm	ml	63,919.46

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12.1.31	1x150sq.mm	ml	6,308.60
12.1.32	1x70sq.mm	ml	3,399.35
12.1.33	1x25sq.mm	ml	1,208.87
121.34	1x16sq.mm	ml	1,044.98
13.00	<i>Led strip light and Aluminium profile</i>		
13.1.1	Double strip light	ml	246.26
13.1.2	Triple strip light	ml	309.26
13.1.3	RGB strip light	ml	297.10
13.1.4	Neon Strip light	ml	300.20
12.1.5	Aluminium profile for strip light (in Gybsum board)	ml	683.86
14.00	<i>galvanized steel Cable tray with standard thicknes</i>		
14.1.1	50*50mm metal	ml	2,073.29
14.1.2	150*50metal cable tray	ml	2,491.91
14.1.3	100*100metal cable tray	ml	2,901.47
14.1.4	100*50metal cable tray	ml	2,207.22
14.1.5	200*50metal cable tray	ml	2,901.47
14.1.7	200*100metal cable tray	ml	3,522.34
14.1.8	500*200metal cable tray	ml	7,113.69
15.00	<i>galvanized steel cable ladder with standard thicknes</i>		
15.1.1	100*100mm	ml	2,786.39
15.1.2	100*50mm	ml	2,628.19
15.1.3	200*50mm	ml	2,786.39
15.1.4	200*100mm	ml	3,434.78
15.1.5	300*100mm	ml	3,854.78
16.00	<i>pvc trucking</i>		
16.1.1	60*40 MM	ml	701.04
16.1.2	40*25 MM	ml	564.54
16.1.2	25*25 MM	ml	300.39
16.1.3	16*16 MM	ml	242.74
17.00	DATA SYSTEM WORK		
	Data Syetem Work,Passive &Active Device		
17.10	Passive Device		
17.1.1	Cat6A UTP Cable 4-Pair, 23AWG, LSZH, 500MHz, 10Gbps	lm	249.43
17.1.2	Single Data Outlet 1 x RJ45 Cat6A	Pcs	909.47
17.1.3	Double Data Outlet 2 x RJ45 Cat6A	Pcs	1,411.67
17.1.4	Cat6A Patch Panel 24 Port	Pcs	7,600.49
17.1.5	Cat6A Patch Panel 48 Port	Pcs	11,135.20
17.1.6	Main Server Rack (MDF) 42U Floor Standing Rack	Pcs	148,891.58
17.1.7	Network Cabinet 42U Rack Cabinet	Pcs	148,891.58
17.1.8	IDF Cabinet 12U Wall Mounted Rack	Pcs	36,185.49

Muluken Abebaw

Henok Abebe

Hirut Ayalew

No	ELECTRICAL AND DATA SYSTEM WORK	UNIT	2018, 4th QUARTER ELECTRICAL WORK DIRECT COST
17.1.9	Fiber Patch Panel 48 Port	Pcs	40,025.72
17.1.10	Cat6A Patch Cord 1 Meter	Pcs	410.93
17.1.11	Cat6A Patch Cord 3 Meter	Pcs	926.02
17.1.12	Fiber Patch Panel (LIU) 24 Port LC Duplex	Pcs	33,576.79
17.1.13	SFP Module 10G Single Mode SFP+	Pcs	15,294.67
17.1.14	Media Converter Fiber to Copper	Pcs	8,277.12
17.20	Active Device		
17.2.1	Core Switch Layer-3 Managed, 10G/24port	Pcs	325,162.67
17.2.2	Access Switch 24 Port Managed PoE+	Pcs	98,454.43
17.2.3	Access Switch 48 Port Managed PoE+	Pcs	142,424.44
17.2.4	Telephone Distribution Frame 100 Pair Krone Type	Pcs	18,916.21
17.2.5	Network Video Recorder 64 Channel NVR	Pcs	331,901.75
17.2.6	Wireless Access Point Wi-Fi 6 Dual Band	Pcs	195,784.50
17.2.7	Dome Camera 4MP/12MP IP Camera	Pcs	26,365.34
17.2.8	Bullet Camera 4MP/12MP IP Camera	Pcs	26,626.21
17.2.9	PTZ Camera 4MP, 25X Zoom	Pcs	156,565.92
17.2.10	Addressable Fire Alarm Panel FACP one loop	Pcs	322,459.76
17.2.11	Smoke Detector Addressable TENDA	Pcs	11,894.94
17.2.12	Heat Detector Addressable TENDA	Pcs	11,894.94
17.2.13	Sounder Addressable TENDA	Pcs	13,373.20
17.2.14	Manual Call Point Addressable TENDA	Pcs	13,081.76
17.2.15	Single Mode Fiber Cable 12 Core OS2, LSZH	lm	812.49
17.2.16	Multimode Fiber Cable OM4, 12 Core, LSZH	lm	1,091.88
17.2.17	2X(CATEGORY 6 UTP CABLE) ,junction box ,pulling wire PVC CONDUTE 15MM	set	7,274.26
17.2.18	Single type of CAT6a (1 x RJ-45) 8 contact of Tele/Data socket outlets	Pcs	1,407.43
17.2.19	Twin type of CAT6a (2 x RJ-45) 8 contact of Tele/Data socket outlets	Pcs	2,447.73
17.2.20	42" LED Monitoring Display Screen for CCTV	Pcs	62,139.37
17.2.21	Horizontal Cable Manager 1U for 42U Rack 4	Pcs	6,194.95
17.2.22	PDU (Power Distribution Unit) 6-Port Heavy Duty	Pcs	6,006.24

Muluken Abebaw



Henok Abebe



Hirut Ayalew



ለበ2018 ዓ.ም. 4ኛ ሩብ ዓመት የግንባታ ሥራዎች ዋጋ ጥናት ለማካሄድ የተጠቀሙናቸው ዋና ዋና የግንባታ ግብዓቶች ቀጥተኛ ዋጋ (ተጨማሪ እሴት ታክስ (VAT) ሳይጨመር) ከዚህ በታች በዝርዝር ቀርቧል።

I.No.	Type of Materials	Unit	2018 4 th Q. selling price. (With out VAT)
Local Materials			
1	Sand	m ³	6,250.00
2	Gravel 02	m ³	5,625.00
3	FINO (01)	m ³	5,727.00
4	FINO (00)	m ³	6,562.00
5	Red Ash	m ³	2,717.00
6	Stone	m ³	2,850.00
7	Brick	No	30.00
8	Stone for Hardcore	m ³	2,196.00
8.1	Selected material (ገረገንቲ) Upto 5km from Quarry site as long as Project Site.	m ³	729.50
8.2	Selected material (ገረገንቲ) Upto 10km from Quarry site as long as Project Site.	m ³	1,042.00
8.3	Selected material (ገረገንቲ) Upto 15km from Quarry site as long as Project Site.	m ³	1,354.50
8.4	Selected material (ገረገንቲ) Upto 20km from Quarry site as long as Project Site.	m ³	1,667.00
9	Cement (PPC)	Qt	2,100.00
10	Cement (OPC)	Qt	2,400.00
11	2cm thick Granite flooring (1:3).Local	m ²	7,300.00
12	3cm thick Granite flooring (1:3).Local	m ²	7,500.00
13	2cm thick Marble flooring (1:3).Local	m ²	6,600.00
14	3cm thick Marble flooring (1:3).Local	m ²	6,750.00
Fabricated Materials			
1	Local Re-Bar Grade 75 (Ethiopia):	kg	200.00
2	Imported Re-Bar Grade 75:	kg	205.00

N.B :- Price include loading, unloading & Transportation cost



Labor Cost		
No	Laborer by Trade	2018 4rth Q. Hourly Cost (In birr)
1	Bar bender Ass.	90.00
2	Bar bender	134.93
3	Carpenter Ass.	97.61
4	Carpenter	180.00
5	Chisler	93.56
6	DL	80.00
7	Electrician helper	117.90
8	Electrician	180.00
9	Forman	161.91
10	Gang chief	129.01
11	Glazer	180.00
12	Mason Ass.	90.00
13	Mason	180.00
14	Mixer opertaor	63.10
15	Painter Assistance	82.51
16	Painter	120.00
17	Plasterer Ass.	84.26
18	Plasterer	126.19
19	Plumber helper	92.41
20	Plumber	180.00
21	Tiller Ass.	107.46
22	Tiller	180.00
23	Time Keeper	93.07
24	Truck Driver	119.90
25	Equipment operator I	89.05
26	Equipment operator II	83.25
27	Equipment operatorIII	78.82
28	vibrator operator	124.87
29	L. Vehicle Driver I	97.56
30	Surveyer	125.00
31	Welder	180.00



No	Laborer by Trade	2018 4rth Q. Cost (In birr)	Hourly
32	Welder Ass.		80.65
33	Aluminium worker		180.00
34	Aluminium worker Ass.		81.89
35	Mud worker		81.29



2. Equipment Cost

IN	Machinery cost	2018 4rth Q. Hourly rental Cost (In
1	Truck 16m3	7,009.20
2	Truck 9m3	2,560.36
3	Truck 13m3	3,251.20
4	compactor	678.05
5	Wheel Loader 200HP (1.5-2.5m3)	6,297.13
6	Dozer 300 Hp (D7R)	9,610.35
7	Dozer D7R W. Ripper	10,060.35
8	Dozer(200-250HP)	8,867.34
9	Excavater(200HP)	8,560.35
10	Excavater(200HP) WITH RIPPER	9,131.04
11	BACKHOE Excavater (120HP)	6,560.35
12	Grader(120-150hp)	7,560.35
13	Roller(8-10ton)	4,304.60
14	Water Truck 13,000lt	4,195.20
15	Air Compressor	3,657.34
16	Hand Jack Hammer (electrical)	264.00
17	Wagon Driller	9,465.22
18	Small Vehicle (pick up 4WD)	1,251.54
19	Asphalt Distributor	5,166.50
20	Stationary Heater	3,451.86
21	Power Broom	2,380.24
22	Asphalt Plant	51,858.19
23	Asphalt Paver	11,433.22
24	Pneumatic Roller	4,133.65
25	Water Tanker	38.05
26	Dump Truck 16m3	2,784.53
27	Crushing plant 75ton	19,952.80
28	Centrifugal W/Pump	499.85
29	Genrator (45kw)	935.89
30	Mobile crane	7,609.20
31	Concrete mixer (300lt)	519.22
32	Concrete Mixer Truck	3,098.82

IN	Mashinery cost	2018 4rth Q. Hourly rental Cost (In
33	Concrete Vibrator	266.09
34	Hand tamper	110.47
35	Pipe moulde	24.85
36	Painting machine	1,253.57
37	Hand Drill	20.71
38	Gear machine	34.52
39	Grinder	34.52
40	Cutting disc (dia. 180)	162.00
41	scaffolding	117.60
42	sledge hammer	6.28
43	Tools	14.40
44	Set of tools	22.80
45	Surveying instrument	129.24
46	Welding. Machine	101.20
47	Truck Crane Hydraulic, 20-25ton	5,383.58
48	winch 3-phase	251.04
49	winch single phase	188.28
50	Genrator 3-phase	502.08
51	Genrator single phase	313.80
52	Genrator for wicnch 3-phase	403.92

