



በአዲስ አበባ ከተማ አስተዳደር የዲዛይንና ግንባታ ሥራዎች ቢሮ
City Government of Addis Ababa Design &
Construction Works Bureau



Date 30-04-2016

Your Ref. _____

Our Ref. 2016/አ/ዲ/የ/ግንባ/178

Dedicated for the Design & Construction Works Bureau of our city

ለም/ቢሮ ኃላፊ 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

ለንፋሰ ስልክ ላፍቶ ክፍለ ከተማ ጽ/ቤት

ለአራዳ ክፍለ ከተማ ጽ/ቤት

ለጉለሌ ክፍለ ከተማ ጽ/ቤት

ለአዲስ ከተማ ክፍለ ከተማ ጽ/ቤት

ለአቃቂ ቃሊቲ ክፍለ ከተማ ጽ/ቤት

ለለማ ኩራ ክፍለ ከተማ ጽ/ቤት

ለቤቶች ልማት ኮርፖሬሽን

ለቤቶች ልማትና አስተዳደር ቢሮ

ለውሃና ፍሳሽ አገልግሎት

ለመንገዶች ባለሥልጣን

ለመሬት ልማትና አስተዳደር ቢሮ

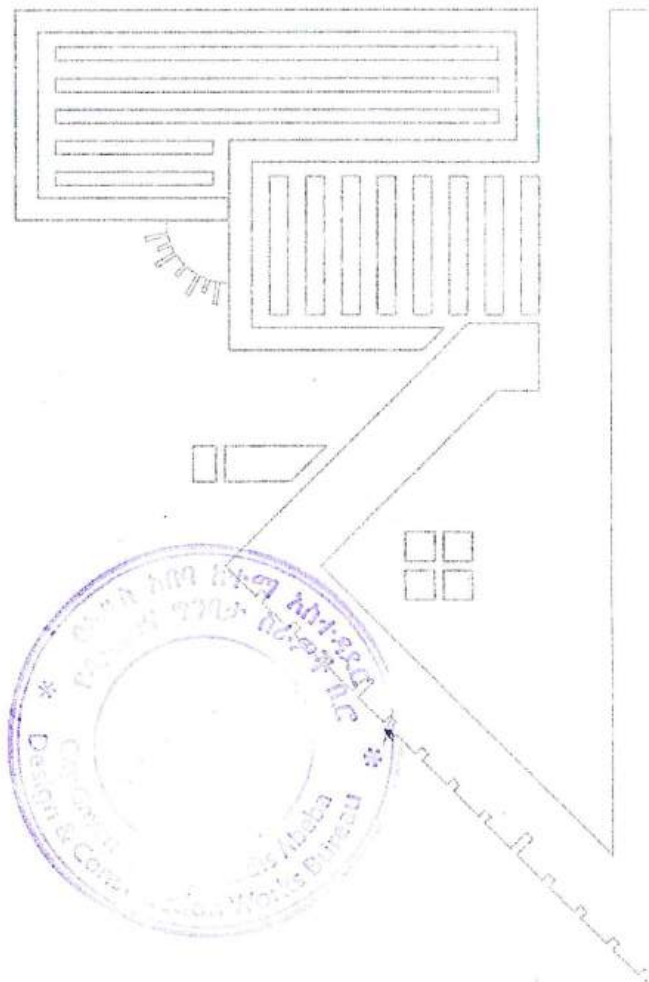
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ለትራንስፖርት ቢሮ

ለግንባታ ፈቃድና ቁጥጥር ባለሥልጣን

አዲስ አበባ





በአዲስ አበባ ከተማ አስተዳደር የዲዛይንና ግንባታ ሥራዎች ቢሮ
City Government of Addis Ababa Design &
Construction Works Bureau



Date 30-04-2016

Your Ref. _____

Our Ref. 2016/40/አ/አ/ወ/አ/ወ/198/16

**ጉዳዩ:- የ2016 በጀት ዓመት 2ኛ ሩብ ዓመት የኮንስትራክሽን
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 ሥራዎች የቀጥተኛ ዋጋ በማጥናት ለሚመለከታቸው ተቋማት እያሰራጨ ይገኛል፡፡

በዚህ መሰረት በያዝነው በጀት ዓመት 2ኛ ሩብ ዓመት በቢሮው አማካኝነት ተዘጋጅቶ የጸደቀውን የግንባታ ሥራዎች የቀጥተኛ ዋጋ (Direct Cost) ከዚህ ቀጥሎ በተገለጸው በቢሮ ድረ ገጽ መጠቀም የምትችሉ መሆኑን እንገልጻለን፡፡

- 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

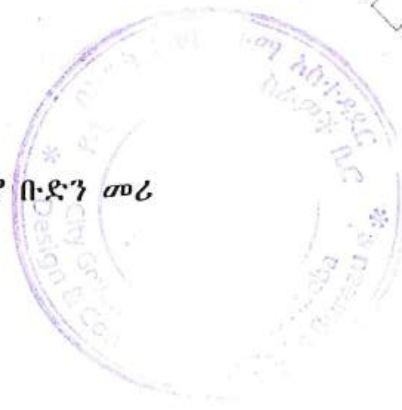
ከሰላምታ ጋር

(Handwritten signature and stamp)
አዲስ አበባ ከተማ አስተዳደር
የዲዛይንና ግንባታ ሥራዎች ቢሮ
የኮንስትራክሽን ኢንጅነሪንግ
ወ/ሮ ዘርዐ

ግልበጭ

- ለቢሮ ኃላፊ
- ለም/ቢሮ/ኃ/ኮ/ኢ/ል/ቁ/ዘርዐ
- የኮ/ግ/አቅ/ግ/ዳይሬክተር
- ለኮንስትራክሽን ግንባታ ግብአት ዋጋ ትመናና ትንበያ ቡድን መሪ

ዲ/ግ/ቢ

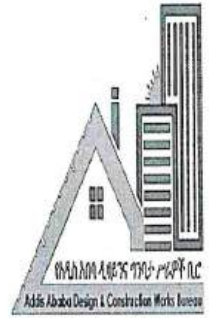


Dedicated for the betterment of our city
ለከተማችን መሻሻል አግባብ



በአዲስ አበባ ከተማ አስተዳደር የዲዛይንና ግንባታ ሥራዎች ቢሮ

City Government of Addis Ababa Design &
Construction Works Bureau



ለከተማችን መሻሻል እንተረጋግጥ

Dedicated for the betterment of our city

ለከተማችን መሻሻል እንተረጋግጥ

የ2016 ዓ.ም የ2ኛ ፋብ ዓመት የግንባታ ስራዎች ቀጥተኛ ዋጋ (DIRECT COST) ጥናት

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14659



@AddisCityCon



@AddisCity



Addis Ababa Design and
Construction Works Bureau

addisdesignandconstruction@gmail .c



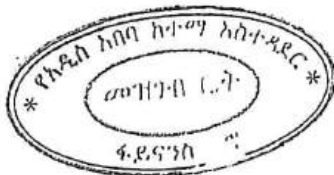
መግቢያ:-

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 በተለይ የተደራጁ ማህበራት የሚጠቀሙት ከመሆኑ አንፃር የኮንስትራክሽን ኢንዱስትሪውን እድገትና የማህበራቱን አቅም ከመገንባት አንፃር ለረድም 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 በፋት 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 በዚህ መሰረት ተፈጻሚ እንዲሆን ውሳኔ ላይ ደርሶአል። በመሆኑም ከዚህ በመቀጠል በዝርዝር በተቀመጠው የአሰራር መግለጫ መሰረት ባለድርሻ አካላት የገንባታ ስራ ነጠላ ዋጋ ማስፈጸም የሚችሉበት ሁኔታ እንዲፈጽር ተደርጎአል።

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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።

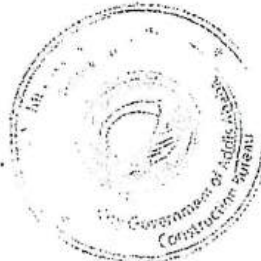
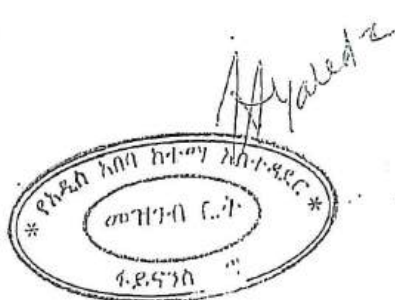
- ለደረጃ 3 እና ከዚያ በላይ ላሉ ሥራ ተቋራጮች እስከ 10% የቀጥተኛ ወጪ /Direct Cost/ ድረስ ይሰላል።
- ለደረጃ 4፣5 እና 6 ሥራ ተቋራጮች እስከ 8% የቀጥተኛ ወጪ /Direct Cost/ ድረስ ይሰላል።
- ከደረጃ 6 በታች ላሉ ሥራ ተቋራጮች እስከ 6% ድረስ ይሰላል።

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።

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ITEM NO	DESCRIPTION	UNIT	2016 2nd Quarter (Only Direct cost)
1.1	Load and cart away all demolishing & dismantling material to an appropriate tip. (Manually)		
1.1.1	Demolishing the lamara wall	m ²	61.89
1.1.2	Demolishing the existing CIS wall	m ²	12.39
1.1.3	Demolishing of wooden wall	m ²	71.14
1.1.4	Demolishing of gypsum wall	m ²	35.57
1.1.5	Demolishing the CIS roof	m ²	19.83
1.1.6	Demolishing of 7x5 cm zigba purline	ml	9.91
1.1.7	Demolishing of eucalyptus upper & lower chords	ml	32.39
1.1.8	Dimolish RHS purline	ml	15.47
1.1.9	Dimolishing the RHS truss.	ml	39.32
1.1.10	Desmantling Gutter	ml	13.42
1.1.11	Desmantling down pipe	ml	25.13
1.1.12	Demolishing the chipwood ceiling	m ²	39.71
1.1.13	Demolishing the tember ceiling	m ²	59.57
1.1.14	Demolishing the abujedid ceiling	m ²	14.89
1.1.15	Dismantle the metal doors from the wall.	m ²	73.43
1.1.16	Dismantle the metal windows from the wall.	m ²	66.08
1.1.17	Desmantling fascia board	ml	18.24
1.1.18	Desmantling ridge & copping	ml	26.84
1.1.19	Demolishing the PVC floor tile	m ²	18.54
1.1.20	Demolishing kitchen sink	pcs	26.47
1.1.21	Demolishing toilet WC,HW,turkish seat	pcs	79.41
1.1.22	Desmantling of wooden door & window	m ²	57.13
1.2	Demolishing Work of different structures N.B. price include clearing the working area & dispose debri as indicated the supervisour		
1.2.1	Masonry Structure (BGL)	m ³	328.31
1.2.2	Masonry Structure (AGL)	m ³	437.75
1.2.3	Demolishing of 25cm thick hardcore	m ²	28.87
1.2.4	Concrete Structures	m ³	1,826.68
1.2.5	10cm thick HCB Structure	m ²	30.20
1.2.6	15cm thick HCB Structure	m ²	40.27
1.2.7	20cm thick HCB Structure	m ²	56.38
1.2.8	Terrazzo floor	m ²	62.65
1.2.9	Cement screed floor	m ²	14.10
1.2.10	8cm thick Mass concrete floor	m ²	18.79
1.2.11	30x120x3cm thick marble tread	pcs	116.80
1.2.12	15x120x3cm thick marble riser	pcs	87.60
1.2.13	Steel Structure	Kg	3.96
1.2.14	Demolishing the ceramic wall tile	m ²	62.65
1.2.15	Demolishing the ceramic floor tile (6 & 8 mm thick) (From 1st -3rd floor)	m ²	70.48
1.2.14	Concrete Structures	m ³	2,445.34
1.2.15	10cm thick HCB Structure	m ²	42.52
1.2.16	15cm thick HCB Structure	m ²	54.67
1.2.17	20cm thick HCB Structure	m ²	76.54
1.2.18	Terrazzo floor	m ²	84.16
1.2.19	Cement screed floor	m ²	18.94
1.2.20	30x120x3cm thick marble tread	m ²	149.07
1.2.21	15x120x3cm thick marble riser	m ²	111.80
1.2.22	Steel Structure	kg	5.17
1.2.23	Demolishing the ceramic wall tile	m ²	84.16
1.2.24	Demolishing the ceramic floor tile (6 & 8 mm thick) (From 4th -7th floor)	m ²	94.68
1.2.23	Concrete Structures	m ³	3,090.68
1.2.24	10cm thick HCB Structure	m ²	46.13
1.2.25	15cm thick HCB Structure	m ²	59.31
1.2.26	20cm thick HCB Structure	m ²	83.04
1.2.27	Terrazzo floor	m ²	92.27
1.2.28	Cement screed floor	m ²	20.76
1.2.29	30x120x3cm thick marble tread	m ²	180.00
1.2.30	15x120x3cm thick marble riser	m ²	135.00
1.2.31	Steel Structure	kg	7.58
1.2.32	Demolishing the ceramic wall tile	m ²	105.67
1.2.33	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	118.88

Prepared by Gezahegn G.

Gezahegn G.

Checked and Approved by: Hirut A.



ITEM NO	DESCRIPTION	UNIT	2016 2nd Quarter (Only Direct cost)
	(From 8th -12th floor)		
1.2.32	Concrete Structures	m ³	3,736.01
1.2.33	10cm thick HCB Structure	m ²	66.56
1.2.34	15cm thick HCB Structure	m ²	73.14
1.2.35	20cm thick HCB Structure	m ²	102.40
1.2.36	Terrazzo floor	m ²	113.78
1.2.37	Cement screed floor	m ²	25.60
1.2.38	30x120x3cm thick marble tread	m ²	212.27
1.2.39	15x120x3cm thick marble riser	pcs	159.20
1.2.40	Steel Structure	kg	7.69
1.2.41	Demolishing the ceramic wall tile	m ²	127.18
1.2.42	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	143.08
	(From 13th -20th floor)		
1.2.41	Concrete Structures	m ³	4,381.34
1.2.42	10cm thick HCB Structure	m ²	67.64
1.2.43	15cm thick HCB Structure	m ²	86.97
1.2.44	20cm thick HCB Structure	m ²	121.76
1.2.45	Terrazzo floor	m ²	135.29
1.2.46	Cement screed floor	m ²	30.44
1.2.47	30x120x3cm thick marble tread	m ²	244.53
1.2.48	15x120x3cm thick marble riser	pcs	183.40
1.2.49	Steel Structure	kg	8.90
1.2.50	Demolishing the ceramic wall tile	m ²	148.69
1.2.51	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	167.28
	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	54.83
	2.2 Bulk excavation in loose & dry soil		
2.2.1	to a depth not exceeding 1.5m	m ³	175.24
2.2.2	to a depth exceeding 1.50m but not exceeding 3.00m	m ³	214.81
2.2.3	to a depth exceeding 3.00m but not exceeding 4.50m	m ³	260.12
2.2.4	to a depth exceeding 4.50m but not exceeding 6.00m	m ³	297.28
2.2.5	to a depth exceeding 6.00m but not exceeding 7.50m	m ³	346.82
2.2.6	to a depth exceeding 7.50m but not exceeding 9.00m	m ³	416.19
2.2.7	to a depth exceeding 9.00m but not exceeding 10.50m	m ³	462.43
	2.3 Pit excavation in loose & dry soil		
2.3.1	to a depth not exceeding 1500cm loose and dry soil.	m ³	198.19
2.3.2	to a depth exceeding 1500cm but not exceeding 3000mm	m ³	226.50
2.3.3	to a depth exceeding 3000cm but not exceeding 4500mm	m ³	264.25
2.3.4	to a depth exceeding 4500cm but not exceeding 6000mm	m ³	317.10
2.3.5	to a depth exceeding 6000cm but not exceeding 7500mm	m ³	396.37
2.3.6	to a depth exceeding 7500cm but not exceeding 9000mm	m ³	500.68
2.3.7	to a depth exceeding 9000cm but not exceeding 10500mm	m ³	679.49
	2.4 Bulk excavation in soft rock		
2.4.1	not exceeding 1.5m	m ³	296.81
2.4.2	Over 1.50m,not exceeding 3m	m ³	422.04
2.4.3	Over 3.0m,not exceeding 4.5m	m ³	511.75
2.4.4	Over 4.5m,not exceeding 6.0m	m ³	731.07
2.4.5	Over 6.0m,not exceeding 7.5m	m ³	1,044.39
2.4.6	Over 7.5m,not exceeding 9.0m	m ³	1,491.98
2.4.7	Over 9.0m,not exceeding 10.5m	m ³	2,131.40
	2.5 Pit excavation in soft rock		
2.5.1	not exceeding 1.5m	m ³	369.37
2.5.2	Over 1.50m,not exceeding 3m	m ³	405.90
2.5.3	Over 3.0m,not exceeding 4.5m	m ³	502.54
2.5.4	Over 4.50m,not exceeding 6m	m ³	717.92
2.5.5	Over 6m,not exceeding 7.5m	m ³	1,025.59
2.5.6	Over 7.5m,not exceeding 9m	m ³	1,465.13
2.5.7	Over 9m,not exceeding 10.5m	m ³	2,093.05
	2.6 Bulk excavation in hard rock		
2.6.1	not exceeding 1.50m	m ³	759.67
2.6.2	Over 1.5m,not exceeding 3m	m ³	947.30
2.6.3	Over 3.0m,not exceeding 4.5m	m ³	1,138.78
2.6.4	Over 4.5m,not exceeding 6.0m	m ³	1,550.35
2.6.5	Over 6.0m,not exceeding 7.5m	m ³	1,937.94
2.6.6	Over 7.5m,not exceeding 9.0m	m ³	2,422.42
2.6.7	Over 9.0m,not exceeding 10.5m	m ³	2,849.91

Prepared by Gezahegn G.

Gezahegn G.

Checked and Approved by: Hirut A.



ITEM NO	DESCRIPTION	UNIT	2016 2nd Quarter (Only Direct cost)
2.7	Pit excavation in hard rock		
2.7.1	not exceeding 1.50m	m ³	738.74
2.7.2	Over 1.5m, not exceeding 3m	m ³	913.27
2.7.3	Over 3.0m, not exceeding 4.5m	m ³	1,187.25
2.7.4	Over 4.5m, not exceeding 6m	m ³	1,615.31
2.7.5	Over 6.0m, not exceeding 7.5m	m ³	2,307.59
2.7.6	Over 7.5m, not exceeding 9m	m ³	3,296.55
2.7.7	Over 9m, not exceeding 10.5m	m ³	4,709.36
2.8	Back fill		
2.8.1	Back fill selected excavated mats. from the site. (mechanized)	m ³	662.73
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	1,756.48
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	1,453.36
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	1,309.61
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	1,201.80
2.8.6	25cm. thick basaltic hard core. (Mechanized)	m ²	677.46
3	EXCAVATION AND EARTH WORK. (manual)		
	20cm. Clearing on wet & black soil.	m ²	54.83
3.1	Bulk excav. in loose and dry soil.		
3.1.1	to a depth not exceeding 1500mm	m ³	402.92
3.1.2	to a depth exceeding 1500mm but not exceeding 3000mm	m ³	464.90
3.1.3	to a depth exceeding 3000mm but not exceeding 4500mm	m ³	525.54
3.2	Bulk excav. in soft rock.		
3.2.1	not exceeding 1.5m	m ³	819.52
3.2.2	Over 1.5.0m, not exceeding 3m	m ³	921.96
3.2.3	Over 3.0m, not exceeding 4.5m	m ³	1,134.72
3.3	Bulk excav. in hard rock.		
3.3.1	not exceeding 1.50m	m ³	1,475.14
3.3.2	Over 1.5m, not exceeding 3m	m ³	1,723.32
3.3.3	Over 3.0m, not exceeding 4.5m	m ³	2,651.26
3.4	Pit & Trench excav. in loose and dry soil.		
3.4.1	not exceeding 1500cm	m ³	447.68
3.4.2	to a depth exceeding 1500cm but not exceeding 3000mm	m ³	549.43
3.4.3	to a depth exceeding 3000cm but not exceeding 4500mm	m ³	755.47
3.5	Pit & Trench excav. in soft rock		
3.5.1	not exceeding 1.5m	m ³	983.43
3.5.2	Over 1.5.0m, not exceeding 3m	m ³	1,229.28
3.5.3	Over 3.0m, not exceeding 4.5m	m ³	1,475.14
3.6	Pit Excavation in hard rock		
3.6.1	not exceeding 1.5m	m ³	1,639.04
3.6.2	Over 1.5m, not exceeding 3m	m ³	1,946.65
3.6.3	Over 3m, not exceeding 4.5m	m ³	3,282.51
3.6	Trench Excavation in hard rock		
3.6.1	not exceeding 1.5m	m ³	1,891.21
3.6.2	Over 1.5m, not exceeding 3m	m ³	2,543.35
3.6.3	Over 3m, not exceeding 4.5m	m ³	4,338.65
3.7	Back fill		
3.7.1	Back fill selected excavated mats. from the site. (Manualy)	m ³	576.29
3.7.2	Back fill selected excavated mats. from out side the site. (Upto 20km from Quarry site as long as Project Site) (Manualy)	m ³	1,746.39
3.7.3	Back fill selected excavated mats. from out side the site. (Upto 15km from Quarry site as long as Project Site) (Manualy)	m ³	1,443.27
3.7.4	Back fill selected excavated mats. from out side the site. (Upto 10km from Quarry site as long as Project Site) (Manualy)	m ³	1,299.52
3.7.5	Back fill selected excavated mats. from out side the site. (Upto 5km from Quarry site as long as Project Site) (Manualy)	m ³	1,191.71
3.7.3	Cart away surplus excavated materials to 5km	m ³	179.49
3.7.4	Cart away surplus excavated materials to 10km	m ³	208.45
3.7.5	Cart away surplus excavated materials to 15km	m ³	267.83
3.7.6	Cart away surplus excavated materials to 20km	m ³	337.19
3.7.6	25cm. thick basaltic hard core. (basaltic stone) (Manualy)	m ²	685.58
3.7.7	Red Ash material delivered by contractor.	m ³	1,902.64

Prepared by Gezahegn G.

Checked and Approved by: Hirut A.



ITEM NO	DESCRIPTION	UNIT	2016 2nd Quarter (Only Direct cost)
4	CONCRETE WORK		
	SUB STRUCTURE		
a	C-7 Lean Concrete (Hand mix) (C-7)	m ²	378.49
b	C-5 Lean Concrete (Hand mix) (C-5)	m ²	364.87
c	C-15 10cm thick mass concrete pavement cost include hard core & 7cm selected material.	m ²	1,824.83
d	Mortar production (1:3)	m ³	8,368.56
e	Light Weight Concrete 1:2:5	m ³	7,807.25
f	C-15 mass Concrete	m ²	875.11
g	4mm thick approved quality water proof membrane	m ²	1,210.70
h	10mm thick stayoroam expansion joint between ground floor slab & beam.	ml	47.78
i	20mm thick stayoroam expansion joint between ground floor slab & beam.	ml	97.76
	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	9,071.13
4.1.2	C-15 Concrete (Mechanical Mix) 1:2:4 for Footing ,Beam and slab	m ³	8,751.13
4.1.3	C-15 Concrete (Mechanical Mix) 1:2:4 for Column ,shear wall	m ³	9,089.05
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	9,617.21
4.2.2	C-20 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	9,297.21
4.2.3	C-20 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	9,635.05
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	10,033.53
4.3.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	9,713.53
4.3.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,051.37
4.3.4	C-25 Concrete (Mechanical Mix) 1:2:3 for 10cm thick slab	m ²	971.35
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	10,579.53
4.4.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	10,259.53
4.4.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,597.37
4.5	R.C. C-25 378 kg of cement per m3 with truck mixer		
4.5.1	C-25 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	10,774.01
4.5.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	10,453.96
4.5.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,818.75
4.6	R.C. C-30 420 kg of cement per m3 with truck mixer		
4.6.1	C-30 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	11,320.36
4.6.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	11,000.36
4.6.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	11,365.10
	R.C. C-40 504 kg of cement per m3 with truck mixer		
4.6.4	C-40 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab with admixture	m ³	11,932.67
4.6.5	C-40 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall with admixture	m ³	12,251.01
	R.C. C-50 520 kg of cement per m3 with truck mixer		
4.6.6	C-50 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab with admixture	m ³	12,751.67
4.6.7	C-50 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall with admixture	m ³	13,070.01
	SUPER STRUCTURE		
4.7	R.C. C-25 378 kg of cement per m3 with drum mixer		
4.7.1	C-25 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	10,370.20
4.7.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	10,050.20
4.7.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,437.18
4.7.4	C-25 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	10,713.59
4.7.5	C-25 Concrete (Mechanical Mix) 1:2:3 for 15cm thick slab	m ²	1,457.03
4.7.6	C-25 Concrete (Mechanical Mix) 1:2:3 for 18cm thick slab	m ²	1,748.44
4.8	R.C. C-30 420 kg of cement per m3 with drum mixer		
4.8.1	C-30 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	10,916.20
4.8.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	10,596.20
4.8.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,983.18
4.8.4	C-30 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	11,259.59
4.9	R.C. C- 40 504 kg of cement per m3 with drum mixer		
4.9.1	C-40 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	12,008.20
4.9.2	C-40 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	11,688.20
4.9.3	C-40 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	12,075.18
4.9.4	C-40 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	12,240.96
4.10	R.C. C-20 336 kg of cement per m3 with truck mixer		
4.10.1	C-20 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	8,926.12
4.10.2	C-20 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	9,949.18
4.10.3	C-20 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,313.92
4.10.4	C-20 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	10,467.92

Prepared by Gezahegn G.

Checked and Approved by: Hirut A.

ITEM NO	DESCRIPTION	UNIT	2016 2nd Quarter (Only Direct cost)
4.11	R.C. C-25 378 kg of cement per m3 with truck mixer		
4.11.1	C-25 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	9,444.40
4.11.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	10,453.96
4.11.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,818.75
4.11.4	C-25 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	10,987.45
4.12	R.C. C-30 420 kg of cement per m3 with truck mixer		
4.12.1	C-30 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	11,384.87
4.12.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	11,041.58
4.12.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	11,406.32
4.12.4	C-30 Concrete (Mechanical Mix) 1:2:3 for stair cases	m ³	11,560.32
4.13	R.C. C-40 504 kg of cement per m3 with truck mixer		
4.13.1	C-40 Concrete (Mechanical Mix) 1:2:3 with admixture	m ³	12,453.58
4.13.2	C-40 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	12,133.58
4.13.3	C-40 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	12,498.32
4.13.4	C-40 Concrete (Mechanical Mix) 1:2:3 for stair cases	m ³	12,652.32
	R.C. C-50 520 kg of cement per m3 with truck mixer		
4.13.5	C-50 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall with admixture	m ³	13,768.20
4.14	Form work		
4.14.1	Wooden form work For Beam, Footing & Column.sub structure	m ²	700.97
4.14.2	Wooden form work For Super structure column ,Floor beam & slab	m ²	726.13
4.14.3	1.2cm thick Fair Faced Form work (high quality plywood)	m ²	1,171.83
4.15	STEEL REINFORCEMENT		
4.16.1	dia. 6 mm. Bars Sub structure (Ethiopia) Grade- 40	kg	169.14
4.16.2	dia. 8 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	127.39
4.16.3	dia. 10 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	127.38
4.16.4	dia. 12 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	122.55
4.16.5	dia. 14 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	122.59
4.16.6	dia. 16 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	122.58
4.16.7	dia. 20 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	116.48
4.16.8	dia. 24 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	122.58
4.16.2	dia. 32 mm deformed Bars Sub structure (Ethiopia) Grade- 40	kg	120.52
4.16.3	dia. 6 mm. plan Bars Super structure (Ethiopia) Grade- 40	kg	174.00
4.16.4	dia. 8 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	132.24
4.16.5	dia. 10 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	132.23
4.16.6	dia. 12 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	124.40
4.16.7	dia. 14 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	124.44
4.16.8	dia. 16 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	124.43
4.16.9	dia. 20 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	118.33
4.16.10	dia. 24 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	124.43
4.16.12	dia. 32 mm deformed Bars Super structure (Ethiopia) Grade- 40	kg	122.37
4.16.14	dia. 8 mm deformed Bars Sub structure (Imported) Grade- 60	kg	137.35
4.16.15	dia. 10 mm deformed Bars Sub structure (Imported) Grade- 60	kg	137.35
4.16.16	dia. 12 mm deformed Bars Sub structure (Imported) Grade- 60	kg	132.54
4.16.17	dia. 14 mm deformed Bars Sub structure (Imported) Grade- 60	kg	132.54
4.16.18	dia. 16 mm deformed Bars Sub structure (Imported) Grade- 60	kg	132.54
4.16.19	dia. 20 mm deformed Bars Sub structure (Imported) Grade- 60	kg	132.54
4.16.20	dia. 24 mm deformed Bars Sub structure (Imported) Grade- 60	kg	132.54
4.16.22	dia. 32 mm deformed Bars Sub structure (Imported) Grade- 60	kg	132.54
4.16.24	dia. 8 mm deformed Bars Super structure (Imported) Grade- 60	kg	142.20
4.16.25	dia. 10 mm deformed Bars Super structure (Imported) Grade- 60	kg	142.20
4.16.26	dia. 12 mm deformed Bars Super structure (Imported) Grade- 60	kg	134.39
4.16.27	dia. 14 mm deformed Bars Super structure (Imported) Grade- 60	kg	134.39
4.16.28	dia. 16 mm deformed Bars Super structure (Imported) Grade- 60	kg	134.39
4.16.29	dia. 20 mm deformed Bars Super structure (Imported) Grade- 60	kg	134.39
4.16.30	dia. 24 mm deformed Bars Super structure (Imported) Grade- 60	kg	134.39
4.16.32	dia. 32 mm deformed Bars Super structure (Imported) Grade- 60	kg	134.39
5	Masonry & block work		
5.10	40cm. thick masonry foundation (A.G.L).	m ³	5,203.20
5.20	50cm. thick masonry foundation (A.G.L).	m ³	5,143.23
5.30	60cm. thick masonry foundation (B.G.L).	m ³	5,098.64
5.40	40cm. thickOne Side Roughly Dressed Stone masonry (A.G.L).	m ³	5,246.78
5.50	50cm. thickOne Side Roughly Dressed Stone masonry (A.G.L).	m ³	5,174.45
5.60	60cm. thickOne Side Roughly Dressed Stone masonry (A.G.L).	m ³	5,122.09
5.70	50cm. thick masonry foundation (B.G.L).	m ³	4,580.41
5.80	40cm. thick masonry foundation (B.G.L).	m ³	4,560.55
5.90	400mm thick Finely dressed elevation wall	m ²	2,147.11
5.10	500mm thick Finely dressed elevation wall	m ²	3,000.59

Prepared by Gezahegn G.

Gezahegn G.

Checked and Approved by: Hirut A.

Hirut A.

ITEM NO	DESCRIPTION	UNIT	2016 2nd Quarter (Only Direct cost)
5.13	10 cm. thick class-c HCB Wall Both Sides Left For Plastering.	m ²	689.26
5.14	10 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m ²	741.75
5.15	15 cm. thick class-c HCB Wall Both Sides Left For Plastering.	m ²	857.09
5.16	15 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m ²	905.99
5.17	20 cm.thick class-c HCB Wall Both Sides Left For Pointing	m ²	1,000.09
5.18	20 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m ²	1,077.96
5.19	10 cm. thick class-b HCB Wall Both Sides Left For Plastering.	m ²	803.22
5.20	10 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m ²	912.51
5.21	15 cm. thick class-b HCB Wall Both Sides Left For Plastering.	m ²	992.00
5.22	15 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m ²	1,215.52
5.23	20 cm.thick class-b HCB Wall Both Sides Left For Pointing	m ²	1,340.16
5.24	20 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m ²	1,564.01
5.25	10 cm. thick class-a HCB Wall Both Sides Left For Plastering.	m ²	1,019.55
5.26	10 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m ²	1,234.34
5.27	15 cm. thick class-a HCB Wall Both Sides Left For Plastering.	m ²	1,312.94
5.28	15 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m ²	1,609.81
5.29	20 cm.thick class-a HCB Wall Both Sides Left For Pointing	m ²	1,394.94
5.30	20 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m ²	2,020.77
5.31	40 cm.thick Dressed Stone Masonry Wall one Side well dressed & the other plastered	m ²	3,665.70
5.32	250mm .thick Double Brick Wall	m ²	3,107.54
5.33	120mm .thick Brick Wall	m ²	1,600.95
5.34	20 x40cm Inclined type louver wall with 1.5mm thick wire mesh	m ²	2,448.75
5.35	Chika wall with all wood work /አንጫት በጭቃ ግድግዳ /	m ²	820.74
5.36	Eucalyptus wood wall with all wood work /አንጫት ግድግዳ /	m ²	531.44
5.37	2.5cm thick Timber wall with 10cm & 6cm dia. Eucalyptus and all wood work/ ሳንቃ ጣውሳ ግድግዳ/	m ²	1,037.44
5.38	G32 CIS with Eucalyptus /ለአጥር የሚሆን ቆርቆሮ አንጫት ግድግዳ/	m ²	1,179.85
5.39	8mm thick Chipwood wall with equilaptuss all wood work with Eucalyptus dia.10cm and 5x7cm batten	m ²	1,064.23
5.40	1.8cm thick Laminated MDF Wall with 5x7cm batten wood work and all necessary work.	m ²	3,207.33
5.41	30x30x1.5mm RHS wall with 4mm clear glass	m ²	3,335.37
5.42	20x20mm and 1.5mm thick Wire mesh wall with frame	m ²	1,112.75
5.43	Barbed wire fence with 40x40x2mm Angle Iron Frame	m ²	974.36

Prepared by Gezahegn G.



Checked and Approved by: Hirut A.





ADDITIONAL ITEMS			
ITEM NO	DESCRIPTION	UNIT	2016 2nd Quarter (Only Direct cost)
1	Supply & lay class A galvanized 800*1000*2.5cm hexagonal Mesh rock size 100- 250 for 1m ³ as directed by the engineer. (Gabion box 1mx1mx1m)	m ³	4,632.08
2	Supply & lay class A galvanized 800*1000*2.5cm hexagonal Mesh rock size 100- 250 for 2m ³ as directed by the engineer. (Gabion box 2mx1mx1m)	m ³	3,936.42
Signage			
3	supply and Fix custom made acrylic glass signage for manager office, reception hall, corridor space, meeting room, secretary area as per the drawings and Specifications. Signage text cut outs will be made out of modern glass fixed on frosted sticker covered back plexi glass. with in the interior design. Price shall include Price includes computer numerical control laser cutting, frosted sticker, adhesive, surface preparation, edge correction and installation.	m ²	10,000.00
FROSTED GLASS			
1	Supply and Fix 10mm thickness frameless imported high quality standard Hydraulic Tempered Frosted Glass Door.	m ²	26,539.50
2	Supply and Fix 10mm thickness frameless imported high quality standard Hydraulic Tempered Frosted Glass Door (Sliding Door)	m ²	21,649.59
3	Supply and Fix 10mm thickness frameless Tempered Frosted Glass with U-channel aluminium framing and all accessories. Price shall include aluminium profile section and all necessary works.	m ²	16,782.61
4	Supply and Fix 10mm thickness frameless Tempered Frosted Glass. Price shall include all necessary works.	m ²	13,800.00
1	supply & fix Suspended Gypsum Board Ceiling with Galvanized Metal Structure: Tapered 9 mm thick gypsum ceiling board with tapered edges to be screwed to the framework with 25mm long GI screws mechanically screwed at 1220 mm c/c. gypsum boards are to be joined and finished so as to have a flush look which includes filling and finishing the tapered and square edge of the boards with gypsum roller net and approved quality joining compounds. Gypsum Board ceiling structure to be made from 0.4mm thick GI metal wall angle, GI metal main channel and G.I metal furling channel with C/C spacing of 400mm for the G.I metal furling channel and C/C spacing of 600 mm for the G.I main channel profiles. (Price includes	m ²	2,829.56
	9 mm thick Gypsum Board		
	0.4 mm thick 6 cm development Galvanized L-Profile		
	0.4 mm thick 8 cm development Galvanized C-Profile		
	0.4 mm thick 10 cm development Galvanized Omega Profile		
	2.5 mm length Narrow Ridge Black Board Screw		
	Golden Screw 8 mm Length		
	6 mm Expansion Fisher and all the necessary accessories.		

Prepared by Gezahegn G.

Checked and Approved by: Hirut A.



6	Roof work	unit	2016 2nd quarter (Only Direct cost)
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	1453.81
2	0.35 mm thick	m ²	1634.34
3	0.40 mm thick	m ²	1661.63
4	0.50 mm thick	m ²	1788.75
5	0.60 mm thick	m ²	2104.94
6	0.70 mm thick	m ²	2334.72
7	0.80 mm thick	m ²	2675.72
8	1.00 mm thick	m ²	3244.18
6.1.2	Galvanized EGA 400 roof cover		
1	0.30 mm thick	m ²	1465.97
2	0.35 mm thick	m ²	1673.62
3	0.40 mm thick	m ²	1690.46
4	0.50 mm thick	m ²	1789.98
5	0.60 mm thick	m ²	2168.45
6	0.70 mm thick	m ²	2509.65
7	0.80 mm thick	m ²	2741.94
8	1.00 mm thick	m ²	3314.34
6.1.3	Galvanized EGA 500 roof cover		
1	0.30 mm thick	m ²	1690.46
2	0.35 mm thick	m ²	1674.61
3	0.40 mm thick	m ²	1774.64
4	0.50 mm thick	m ²	1937.40
5	0.60 mm thick	m ²	2382.14
6	0.70 mm thick	m ²	2679.38
7	0.80 mm thick	m ²	3045.94
8	1.00 mm thick	m ²	3556.82
6.1.4	Galvanized EGA 600 roof cover		
1	0.30 mm thick	m ²	1690.46
2	0.35 mm thick	m ²	1692.66
3	0.40 mm thick	m ²	1774.80
4	0.50 mm thick	m ²	1937.93
5	0.60 mm thick	m ²	2393.14
6	0.70 mm thick	m ²	2694.79
7	0.80 mm thick	m ²	3065.74
8	1.00 mm thick	m ²	3578.82
6.1.5	Galvanized EGA 700 roof cover		
1	0.30 mm thick	m ²	1746.59
2	0.35 mm thick	m ²	1926.18
3	0.40 mm thick	m ²	2055.26
4	0.50 mm thick	m ²	2178.73
5	0.60 mm thick	m ²	2410.62
6	0.70 mm thick	m ²	2828.99
7	0.80 mm thick	m ²	3368.34
8	1.00 mm thick	m ²	3984.82
9	Coated Corrugated 0.4mm thick roof cover	m ²	1245.15
10	Coated Corrugated 0.4mm thick for wall	m ²	1213.75

Prepared by:- Tedi



Checked by:-Gezahegn G.




Approved by:-Hirut A.



	Roof work	unit	2016 2nd quarter (Only Direct cost)
6			
6.2	Gutter/ጎረጎዳ/		
	Galvanized metal sheet gutter /ጎረጎዳ/		
6.2.1	G- 28 of devt. Length 33 cm	ml	708.85
6.2.2	G- 30 of devt. Length 33 cm	ml	657.85
6.2.3	G- 28 of devt. Length 40 cm	ml	861.85
6.2.4	G- 30 of devt. Length 40 cm	ml	861.81
6.2.5	G- 28 of devt. Length 50 cm	ml	912.85
6.2.6	G- 30 of devt. Length 50 cm	ml	810.85
6.2.7	G- 28 of devt. Length 67 cm	ml	1116.85
6.2.8	G- 30 of devt. Length 67 cm	ml	1120.93
6.2.9	G- 28 of devt. Length 100 cm	ml	1282.09
6.2.10	G- 30 of devt. Length 100 cm	ml	1116.85
6.3	Galvanized steel rectangular down pipe /አሸንዳ/		
6.3.1	G- 28 of devt. Length 33 cm	ml	657.33
6.3.2	G- 30 of devt. Length 33 cm	ml	606.33
6.3.3	G- 28 of devt. Length 40 cm	ml	825.16
6.3.4	G- 30 of devt. Length 40 cm	ml	753.96
6.3.5	G- 28 of devt. Length 50 cm	ml	889.10
6.3.6	G- 30 of devt. Length 50 cm	ml	828.10
6.4	PVC down pipe		
6.4.1	PVC down pipe Dia.75mm	ml	329.39
6.4.2	PVC down pipe Dia.110mm	ml	536.12
6.4.3	PVC down pipe Dia.160mm	ml	877.13
6.5	UPVC down pipe		
6.5.1	Down pipe,UPVC,Dia.110mm PN 6	ml	670.71
6.5.2	Down pipe,UPVC,Dia.200mm PN 6	ml	1682.56
6.6	Galvanized steel flashing		
6.6.1	G-30 deve.length 50cm	ml	684.02
6.6.2	G-30 deve.length 67cm	ml	716.44
6.6.3	G-30 deve.length 100cm	ml	844.58
6.6.4	G-28 deve.length 50cm	ml	907.25
6.6.5	G-28 deve.length 67cm	ml	944.80
6.6.6	G-28 deve.length 100cm	ml	998.33
6.7	Galvanized steel copping		
6.7.1	G-28 deve.length 25cm	ml	691.03
6.7.2	G-30 deve.length 25cm	ml	640.03
6.7.3	G-28 deve.length 33cm	ml	691.03
6.7.4	G-30 deve.length 33cm	ml	640.03
6.7.5	G-28 deve.length 50cm	ml	818.53
6.7.6	G-30 deve.length 50cm	ml	895.03
6.8	Galvanized steel roof ridge		
6.8.1	G-28 deve.length 33cm	ml	690.63
6.8.2	G-30 deve.length 33cm	ml	622.42
6.8.3	G-28 deve.length 50cm	ml	877.42
6.8.4	G-30 deve.length 50cm	ml	775.42
6.9	CIS Roofing		
6.9.1	G28 CIS Roofing (Without Truss & Purlin)	m ²	1214.43
6.9.2	G30 CIS Roofing (Without Truss & Purlin)	m ²	1030.33
6.9.3	G32 CIS Roofing (Without Truss & Purlin)	m ²	820.78
6.9.4	G35 CIS Roofing (Without Truss & Purlin)	m ²	761.85
6.9.5	Aspesto roof cover	m ²	482.78
6.9.6	Euro tile roof cover	m ²	415.44
6.9.7	Grass roof cover	m ²	379.55
6.9.8	Mica roof cover	m ²	388.41
6.9.9	1mm thick Sheet metal roof cover	m ²	1751.15
6.9.10	G-32 CIS cladding for decorating roof prlin /የጣራ ቆርቆሮ ፐርሊን ገጽ/	m ²	1259.61
6.9.11	Tsid Timber cladding 1cm for decorating roof purlin /የጣራ ጣጫ ፐርሊን ገጽ/	m ²	1162.88
6.9.12	Light Weight Concrete 1:2:5 for roof	m ³	7779.35
6.9.19	Supply and Install Security Electronic Fencing With all accessory energizer system.	ml	1059.47
6.9.20	Supply and Install Security Fence Wiring With all accessory.	ml	897.45
6.9.21	Decra Roof Tiles-Garnet (Best quality 1st class).	m ²	2182.62

Prepared by:- Tedi

Checked by:-Gezahegn G.

Approved by:-Hirut A.

7	CARPENTRY AND JOINERY		2016 2nd quarter (only Direct cost)
	Ceiling	Unit	
7.1	Abujedy ceiling	m ²	649.80
7.2	Fyzit ceiling	m ²	1,050.23
7.3	Parquet ceiling	m ²	2,371.55
7.4	Timber ceiling /ጣውላ ኮርኒስ /	m ²	1,065.40
7.5	Purline ceiling	m ²	768.40
7.6	Playwood ceiling /Compersato /	m ²	735.40
7.7	Rush ceiling /ሸንብቶ ኮርኒስ/	m ²	592.40
7.8	Ceiling made with plastic sack/ማዳበሪያ ኮርኒስ/	m ²	556.30
7.9	Ceiling made with sack /ጽጌ/	m ²	556.30
7.10	8mm. thick chipwood Ceiling.	m ²	1,218.73
7.11	Armstrong acoustical ceiling With Suspender and all accessories	m ²	1,799.94
7.12	Mineral fiber accoustic ceiling	m ²	1,344.43
7.13	supply & fix local gypsum ceiling with out batten	m ²	651.84
7.14	PVC ceiling (laminated/imported)	m ²	1,275.76
7.15	Built shelves made of HPL wood	m ²	3,881.34
7.17	25 cm. Wide Kerrero Facia Board	ml	572.47
7.18	30 cm. Wide Kerrero Facia Board	ml	616.47
	Wooden truss & purlin		
7.19	10-12 cm. dia. Upper & Lower Chords Eucaliptus Wood.	ml	287.50
7.20	8-10 cm. dia. Vertical & Diagonal member Eucaliptus Wood.	ml	296.72
7.21	Diam. 6 cm thick eucalyptus purlin	ml	129.25
7.22	50 X 70mm. Tid Wood Roof Purlin	ml	251.34
	Doors		
7.22	40mm thick Mahogany plywood smooth finish flush wooden door /ታዋቅር ብር /	m ²	9,580.67
7.24	40mm thick Smooth MDF board made imported wooden door (best quality)	m ²	13,279.60
7.25	40mm thick Antique MDF board wooden door	m ²	11,195.67
7.26	Solid wooden door 40mm thick (best quality)	m ²	14,920.66
7.27	1cm thick timber door /መናኛ ፐርሊን ጣውላ ብር መስታወት የለለው/	m ²	2,988.19
7.28	3cm thick timber door /ፐርሊን ጣውላ ብር መስታወት የለለው /	m ²	2,979.50
7.29	1cm thick timber window /መናኛ ፐርሊን ጣውላ መስኮት መስታወት የለለው /	m ²	2,081.25
7.30	3cm thick timber window /ፐርሊን ጣውላ መስኮት መስታወት የለለው/	m ²	2,081.25
7.31	3cm thick timber window with glass /ፐርሊን ጣውላ መስኮት መስታወት ያለው/	m ²	4,766.36
7.32	G-32 CIS door with all wood work /የቆርቆሮ ብር /	m ²	1,431.88
7.33	G-32 CIS window with all wood work /የቆርቆሮ መስኮት /	m ²	1,431.88
7.34	Timber /Tsid/ door /የጽፎ ጣውላ ብር /	m ²	1,705.49
7.35	Timber /Tsid/ window /የጽፎ ጣውላ መስኮት /	m ²	1,934.18
7.44	Plywood flush wooden built in cupboard (standared version)	m ²	6,377.90
7.45	Antique built in cupboard (best quality)	m ²	8,597.90

Prepared by :-Tedi M.

Checked by:-Gezahegn G.

Approved by:-Hirut A.



8 METAL WORK		unit	2016 2nd quarter (only Direct cost)
8.1	Fully metal doors of 38mm LTZ without grill (1.5mm thick)	m ²	5,243.37
8.2	Partially glazed metal doors of 38LTZ without grill	m ²	4,809.34
8.3	Partially glazed metal doors of 38mm LTZ with grill (1.5mm thick)	m ²	5,513.05
8.4	Metal Windows of 38LTZ without grill (1.5mm thick)	m ²	4,359.21
8.5	Metal Windows of 38LTZ (1.5mm thick) with grill	m ²	8,630.51
8.6	Double leaf metal doors of 38mmLTZ without grill (1.5mm thick)	m ²	4,959.91
8.7	Double leaf metal doors of 38mmLTZ (1.5mm thick)	m ²	5,736.20
8.8	Fully metal doors of 28mm LTZ without grill (1.2mm thick)	m ²	4,802.11
8.9	Partially glazed metal doors of 28mm LTZ without grill (1.2mm thick)	m ²	4,165.60
8.10	Partially glazed metal doors of 28mm LTZ with grill (1.2mm thick)	m ²	4,883.65
8.11	Metal Windows of 28LTZ without grill (1.2mm thick)	m ²	3,502.82
8.12	supply & fix 6mm thick metal plate	m ²	12,904.52
8.13	supply & fix 8mm thick metal plate	m ²	15,154.52
8.12	Metal Windows of 28LTZ (1.2mm thick)	m ²	4,586.76
8.13	Double leaf metal doors of 28mmLTZ without grill (1.2mm thick)	m ²	4,171.14
8.14	Double leaf metal doors of 28mmLTZ (1.2mm thick)	m ²	4,947.43
8.15	Main gate door covered with sheet metal /የኖ የጊቢ በር ባለ ጊጥ/	m ²	8,518.65
8.16	Sliding door & window	m ²	3,644.29
8.17	Sheet metal partition wall (1mm thick) with RHS 30x30x2.5	m ²	3,988.47
8.18	Only 1mm thick Sheet metal (Lamera) partition wall	m ²	1,983.37
8.19	38mm LTZ limitation metal half glazed door with out grill	m ²	3,514.50
8.20	38mm LTZ limitation metal half glazed door with grill	m ²	4,533.34
8.22	Supply & fix 1.6mm thick Aluminium frame window with 6mm thick glazed	m ²	11,318.48
8.23	Supply & fix 1.6mm thick Aluminium frame window with 6mm thick double glazed	m ²	11,718.48
8.24	1.6mm thick Aluminium framed window with 8mm thick glazed	m ²	12,018.48
8.25	1.6mm thick Aluminium frame window with 8mm thick double glazed	m ²	12,468.48
8.26	Aluminium sun breaker	m ²	10,879.57
8.27	1.6mm thick Aluminium Curtain wall 6mm thick glass	m ²	13,742.90
8.28	1.6mm thick Aluminium Curtain wall 8mm thick glass	m ²	16,742.90
8.29	2mm Aluminium partition wall with 6mm thick glass	m ²	13,742.90
8.300	1.6mm thick Aluminium frame door with 6mm thick glass	m ²	11,742.90
8.310	1.6mm thick Aluminium frame door with 4mm thick glass	m ²	10,785.88
8.320	1.6mm thick Aluminium frame window with 4mm thick glass	m ²	10,385.88
8.330	1.6mm thick Aluminium frame door with 5mm thick glass	m ²	11,014.70
8.340	1.6mm thick Aluminium frame window with 5mm thick glass	m ²	10,614.70
8.350	2mm thick Aluminium frame door with 8mm thick glass	m ²	13,742.90
8.360	1.6mm thick Aluminium frame door with out glazing	m ²	9,256.88
8.370	1.6mm thick Aluminium frame window with out glazing	m ²	8,856.88
8.38	Rolling shutter door shall be built up from interlocking lath sections of aluminum alloy conforming to 53000 (NE5) or 64430 (HE30) of IS : 733. the lath sections shall be from 18 gauge (1.25 mm) section with 78mm profile height for curtains. The lath section shall be rolled so as to have interlocking curts at both edges and a deep corrugation at the centre with a bridge depth of 16 mm to provide sufficient curtain stiffness for resisting manual pressure & normal wind pressure.	m ²	21,749.13
STEEL STRUCTURE WORK			
REINFORCEMENT BAR			
8.39	Steel Truss & Purlin With RHS	kg	295.99
8.40	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	282.14
8.41	dia. 16 mm. deformed bars dev. Length 400mm (J-bolt)	kg	224.69
8.42	dia. 12 mm. deformed bars dev. Length 100mm(J-bolt)	kg	162.72
8.43	dia. 14 mm. deformed bars dev. Length 160mm(J-bolt)	kg	224.69
8.44	dia. 20 mm. Anchor bolt dev. Length 400mm	kg	259.47

Prepared by :-Tedi M.

Checked by:-Gezahegn G.

Approved by:-Hirut A.



9	FINISHING WORKS	Unit	2016 2nd Quarter Only Direct Cost
9.1	PLASTERING		
9.1.2	3 Coats of cement plastering (1:3) (To internal wall)	m ²	515.29
9.1.3	3 Coats of cement plastering (1:3) (To external wall)	m ²	515.29
9.1.4	3 Coats of cement plastering to exposed beams and columns.	m ²	555.40
9.1.5	3 Coats of cement plastering to Slab soffit beams soffit	m ²	632.13
9.1.6	2 Coats of cement plastering internal vertical surface.	m ²	402.99
9.1.7	2 Coats of cement plastering External vertical surface.	m ²	402.99
9.1.8	cement wash vertical surface.	m ²	175.21
9.1.9	2 Coats of cement plastering Exposed column and beam	m ²	403.26
9.1.10	2 Coats of cement plastering concrete soffit	m ²	499.34
9.1.11	Final Coat of cement Rendering .	m ²	117.42
9.1.12	Final Coat of cement plastering vetical and exposed column and beam	m ²	111.72
9.1.13	Final Coat of cement plastering concrete soffit	m ²	152.86
9.1.14	Final Coat of Gypsum plastering Soffit	m ²	154.76
9.1.15	Final Coat of Gypsum plastering Vetical wall and Exposed column and beam	m ²	126.28
9.1.16	Final Coat of Gypsum plastering external Vetical wall and Exposed column and beam	m ²	113.62
9.2	POINTING		
9.2.1	Cement pointing to H.C.B.wall surface (1:3).	m ²	129.91
9.2.2	Cement pointing to Brick.wall surface (1:3).	m ²	208.30
9.2.3	Cement pointing to stonemasonry.wall surface (1:3).	m ²	230.52
9.3	FLOORING		
9.3.1	2mm. thick PVC flooring. By Adhesive glue	m ²	1,084.28
9.3.2	2mm thick monolithic PVC tile. By Adhesive glue	m ²	1,271.13
9.3.3	10cmx10cmx10cm Coble Stone	m ²	1,355.14
9.3.4	3cm. Thick cement screed flooring (with out glass).	m ²	439.78
9.3.5	5cm. Thick cement screed flooring (with out glass).	m ²	643.50
9.3.6	40cmx40cm 9mm thick Ceramic floor tile by Adhesive glue	m ²	3,495.00
9.3.7	33cmx33xcm8mm thick Ceramic floor tile by Adhesive glue	m ²	2,940.65
9.3.8	33cmx33xcm7mm thick Ceramic floor tile by Adhesive glue	m ²	2,940.65
9.3.9	33cmx33x6mm thick Ceramic floor tile by Adhesive glue	m ²	2,785.44
9.3.10	60cmx60cmx8mm thick Porcelain floor tile by adhesive glue	m ²	3,586.45
9.3.12	60cmx60cmx9mm thick Porcelain floor tile by adhesive glue	m ²	3,799.99
9.3.13	60cmx60cmx10mm thick Porcelain floor tile adhesive glue	m ²	3,838.54
9.3.14	supply and apply 2mm thick Epoxy floor topping with one coat primer coating.	m ²	3,365.22
9.3.15	supply and apply 3mm thick Epoxy floor topping with one coat primer coating.	m ²	3,604.33
9.3.16	Terrazzo tile flooring size 40cm x 40cmx40mm thick for pedestrian (1:3)	m ²	1,966.78
9.3.17	Terrazzo tile flooring(1:3) 30mm thick	m ²	1,922.43
9.3.18	Terrazzo tile flooring(1:3) 20X20mm	m ²	1,878.08
9.3.19	1cm thick Granite flooring	m ²	5,233.10
9.3.20	2cm thick Granite flooring (1:3).	m ²	6,413.55
9.3.21	3cm thick Granite flooring (1:3).	m ²	6,600.62
9.3.22	2cm thick Marble flooring (1:3).	m ²	6,368.19
9.3.23	3cm thick Marble flooring (1:3).	m ²	6,840.31

Prepared by :- Betelihem A.

Betelihem A.

Checked by :- Gezahegn G.

Gezahegn G.



9	FINISHING WORKS	Unit	2016 2nd Quarter Only Direct Cost
9.4	WALL TILE CLADDING		
9.4.1	15cmx15cmx6mm white glazed Ceramic wall tile.(Cement mortar ratio1:2).	m ²	1,311.81
9.4.2	Ceramic wall tiles (200x300x8mm) by adhesive glue	m ²	3,142.39
9.4.3	Supply and fix lay glass mosaic to external wall bennded & jointed in cement sand mortar (1:1). Price includes cement sand mortar bedding & white cement grouting.	m ²	6,171.49
9.4.4	20mm thick Marble wall Cladding	m ²	7,644.92
9.4.5	10mm thick Granite wall Cladding	m ²	6,868.83
9.4.6	20mm thick Granite wall Cladding	m ²	7,691.61
9.4.15	2mm PVC wall tile type cladding by Animal glue	m ²	848.04
9.4.16	Aluminium cladding 4mm thick by adhesive	m ²	2,814.30
9.5	WINDOW SILL		
9.5.1	30mm. Thick & 220mm width Marble window sill (1:3) on HCB.	ml	1,659.91
9.5.2	30mm. Thick & 280mm width Marble window sill (1:3) on HCB.	ml	2,025.13
9.5.3	30mm. Thick & 300mm width Marble window sill (1:3) on HCB.	ml	2,207.74
9.5.4	30mm. Thick & 470mm width Marble window sill (1:3) on HCB.	ml	3,242.52
9.5.5	30mm. Thick & 520mm width Marble window sill (1:3) on HCB.	ml	3,364.26
9.6	THREAD		
9.6.1	MARBLE THREAD		
9.6.1.1	280mm wide & 30mm. thick marble threads.(1:3)	ml	2,075.17
9.6.1.2	300mm wide & 30mm. thick marble threads.(1:3)	ml	2,201.12
9.6.1.3	330mm wide & 30mm. thick marble threads.(1:3)	ml	2,390.04
9.6.1.4	280mm wide & 20mm. thick marble threads.(1:3)	ml	1,913.74
9.6.1.5	300mm wide & 20mm. thick marble threads.(1:3)	ml	2,028.16
9.6.1.6	330mm wide & 20mm. thick marble threads.(1:3)	ml	2,199.79
9.6.2	GRANITE THREAD		
9.6.2.1	280mm.wide & 30mm thick Granite Treads .(1:3)	ml	2,095.00
9.6.2.2	300mm.wide & 30mm thick Granite Treads .(1:3)	ml	2,225.08
9.6.2.3	330mm.wide & 30mm thick Granite Tread .(1:3)	ml	2,420.21
9.6.2.4	280mm.wide & 20mm. thick Granite Tread .(1:3)	ml	2,014.96
9.6.2.5	300mm.wide & 20mm. thick Granite Tread .(1:3)	ml	2,139.33
9.6.2.6	330mm.wide & 20mm. thick Granite Tread .(1:3)	ml	2,325.88
9.6.3	TERRAZZO THREAD		
9.6.3.1	280mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	485.03
9.6.3.2	300mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	499.18
9.6.3.3	340mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	520.41
9.6.3.4	280mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	473.16
9.6.3.5	300mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	486.47
9.6.3.6	330mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	506.42
9.7	RISER		
9.7.1	MARBLE RISER		
9.7.1.1	130mm wide & 20mm. thick marble riser. (1:3).	ml	900.77
9.7.1.2	150mm wide & 20mm. thick marble riser. (1:3).	ml	1,013.99
9.7.2	GRANITE RISER		
9.7.2.1	130mm wide & 20mm. thick Granite riser .(1:3)	ml	1,118.93
9.7.2.2	150mm wide & 20mm. thick Granite riser .(1:3)	ml	1,206.55
9.7.3	TERRAZZO RISER		
9.7.3.1	130mm wide & 30mm. Thick Terrazo riser. (1:3).	ml	437.86
9.7.3.2	130mm wide & 20mm. Thick Terrazo riser. (1:3).	ml	430.06
9.7.3.3	150mm wide & 20mm. Thick Terrazo riser. (1:3).	ml	437.86

Prepared by :- Betelihem A.

Betelihem A.

Checked by :- Gezahegn G.

Gezahegn G.

Approved by:-Hirut Ayalew



9	FINISHING WORKS	Unit	2016 2nd Quarter Only Direct Cost
9.8	Threshold		
9.8.1	Marble threshold		
9.8.1.1	20mm. Thick & 200mm wide Marble threshold.(1:3)	ml	1,185.54
9.8.1.2	20mm. thick & 250mm wide Marble threshold.(1:3)	ml	1,631.43
9.8.2	Granite threshold		
9.8.2.1	20mm. thick & 200mm wide Granite threshold.(1:3)	ml	1,428.66
9.8.2.2	20mm. thick & 250mm wide Granite threshold.(1:3)	ml	1,703.42
9.8.3	Terrazo threshold		
9.8.3.1	20mm. thick & 200mm w.Terrazo threshold. (1:3).	ml	600.15
9.8.3.2	20mm. thick & 250mm w. terrazo threshold.(1:3)	ml	771.86
9.9	Skirting		
9.9.1	10cm. high PVC skirting 2mm thick	ml	180.59
9.9.2	20mm. thick terrazo skirting.	ml	292.70
9.9.5	10cm high 10mm thick Porcelain skirting	ml	264.72
9.9.7	100mm. high wooden skirting.	ml	604.29
9.9.8	10cm high 2cm thick granite skirting	ml	720.36
9.9.10	20mm Thick, 10cm high Marble skirting	ml	936.82
9.10	Copping		
	Marble copping		
9.10.1	300mm wide & 30mm. thick marble copping.(1:3)	ml	2,176.12
9.10.2	450mm wide & 30mm. thick marble copping.(1:3)	ml	3,120.73
9.10.3	300mm wide & 20mm. thick marble copping.(1:3)	ml	2,003.16
9.10.4	450mm wide & 20mm. thick marble copping.(1:3)	ml	2,861.29
9.11	Terrazzo copping		
9.11.1	300mm wide & 30mm. thick terrazzo copping.(1:3)	ml	609.40
9.11.2	450mm wide & 30mm. thick terrazzo copping.(1:3)	ml	770.81
9.11.3	300mm wide & 20mm. thick terrazzo copping.(1:3)	ml	498.85
9.11.4	450mm wide & 20mm. thick terrazzo copping.(1:3)	ml	604.99

Prepared by :- Betelihem A.

Checked by :- Gezahegn G.

Approved by:- Hirut Ayalew



11.0	ELECTRICAL WORK		
a	KWHm Board (by EEP Co)		
b	1 pcs KWHm; 20/60A-1P 11 KW	No.	6,000.00
c	1 pcs KWHm; 10/30A-1P 7 KW	No.	1,500.00
d	1 pcs KWHm; 15/30A-3P 15 KW	No.	45,000.00
e	1 pcs KWHm; 30/60A-3P 20 KW	No.	55,000.00
f	S/100 A/R 28KW - 45KW	No.	80,000.00
11.1	DISTRIBUTION BOARDS		
11.1.1	1 pc main 400A, MCCB, 3Phase, 25kA		
	1 pcs 160A, MCCB, 3Phase, 16kA,		
	2 pcs 50A, MCB, 3Phase, 10kA,		
	6 pcs 32A, MCB, 3Phase, 10kA,		
	5 pcs 25A, MCB, 3Phase, 10kA,		
	3 pcs 16A, MCB, 1Phase, 6kA,		
	25% reserve pitch		
	Accessories	PCS	161,734.60
11.1.2	1 pc main 630A, MCCB, 3Phase, 25kA		
	1 pcs 100A, MCCB, 3Phase, 16kA,		
	2 pcs 80A, MCB, 3Phase, 10kA,		
	3 pcs 50A, MCB, 3Phase, 10kA,		
	7 pcs 32A, MCB, 3Phase, 10kA,		
	5 pcs 25A, MCB, 3Phase, 10kA,		
	2 pcs 25A, MCB, 3Phase, 10kA, (SPARE)		
	1Pc surge arrestor of 40KA		
	3pcs of Ameter 0-800A		
	3pcs of current meter 800A		
	1pc of voltmeter with selector switch (0-500V)		
	25% reserve pitch	PCS	315,344.40
11.1.3	1 pcs main 160A, MCCB, 3Phase, 16kA,		
	2 pcs 32A, MCB, 3Phase, 10kA,		
	1 pcs 25A, MCB, 3Phase, 10kA,		
	5 pcs 32A, MCB, 1Phase, 10kA,		
	11 pcs 16A, MCB, 1Phase, 6kA,		
	1Pc surge arrestor of 40KA		
	3pcs of Ameter 0-200A		
	3pcs of current meter 200A		
	1pc of voltmeter with selector switch (0-500V)		
	25% reserve pitch.	PCS	100,354.60
11.1.4	1 pcs main 400A, MCCB, 3Phase, 16kA,		
	1 pcs 200A, MCCB, 3Phase, 16kA, coupled with contactor of 200A/3ph which remains closed at power cutoff		
	1pcs main 50A, MCB, 3Phase, 10kA, coupled with contactor of 50A/3ph which remains closed at power cutoff		
	10 pcs 25A, MCB, 3Phase, 10kA,		
	4pcs 25A, MCB, 3Phase, 10kA, coupled with contactor of 25A/3ph which remains closed at power cutoff		
	1pcs 10A, MCB, 1Phase, 6kA,		
	7pcs 6A, MCB, 1Phase, 6kA, (for contactor coil)		
	1Pc programable time switch coupled with contactor of 10A/1p		
	1Pc surge arrestor of 40KA		
	3pcs of Ameter 0-500A		
	3pcs of current meter 500A		
	1pc of voltmeter with selector switch (0-500V)		
	25% reserve pitch.	PCS	334,309.60

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11.1.5	1 pc main 50A, MCB, 3Phase, 16kA		
	7 pcs 16A, MCB, 1Phase, 6kA		
	16 pc 10A, MCB, 1Phase, 6kA		
	2pc 10A, MCB, 16Phase, 6kA (spare)		
	25% reserve pitch	PCS	27,848.76
11.1.6	1 pc main 32A, MCB, 3Phase, 16kA		
	3 pcs 25A, MCB, 1Phase, 6kA coupled with digital submeter of 25A/1ph.		
	15 pc 10A, MCB, 1Phase, 6kA		
	2pc 10A, MCB, 16Phase, 6kA (spare)		
	25% reserve pitch	PCS	47,336.88
11.1.7	1 pc main 50A, MCB, 3Phase, 10kA		
	32 pc 16A, MCB, 1Phase, 6kA		
	2pc 16A, MCB, 16Phase, 6kA (spare)		
	25% reserve pitch	PCS	32,483.76
11.1.8			
	2 pcs 20A, MCB, 1Phase, 6kA coupled with digital submeter of 20A/1ph.		
	1 pc 16A, MCB, 1Phase, 6kA		
	9 pc 10A, MCB, 1Phase, 6kA coupled with contactor of 10A/1ph		
	9pc 6A, MCB, 1Phase, (for contactor coil)		
	2pc 10A, MCB, 16Phase, 6kA (spare)		
	25% reserve pitch	PCS	65,381.88
11.1.9	Ditto but for LPP-GF-4=GF-5=GF-9=GF-10 and consisting of:		
	1 pc main 25A, MCB, 3Phase, 10kA		
	2 pcs 20A, MCB, 1Phase, 6kA coupled with digital submeter of 20A/1ph.		
	1 pc 16A, MCB, 1Phase, 6kA		
	9 pc 10A, MCB, 1Phase, 6kA coupled with contactor of 10A/1ph		
	9pc 6A, MCB, 1Phase, (for contactor coil)		
	2pc 10A, MCB, 16Phase, 6kA (spare)		
	25% reserve pitch	PCS	65,381.88
11.1.10	1 pc main 80A, MCB, 3Phase, 16kA		
	2 pc 32A, MCB, 3Phase, 10kA		
	2 pcs 20A, MCB, 1Phase, 6kA coupled with digital submeter of 20A/1ph.		
	5pc 16A, MCB, 1Phase, 6kA		
	15 pc 10A, MCB, 1Phase, 6kA coupled with contactor of 10A/1ph		
	15 pc 6A, MCB, 1Phase, (for contactor coil)		
	2pc 16A, MCB, 16Phase, 6kA (spare)		
	25% reserve pitch	PCS	149,831.76
11.1.11	1 pc main 80A, MCB, 3Phase, 16kA		
	2 pc 32A, MCB, 3Phase, 10kA		
	1 pcs 25A, MCB, 1Phase, 6kA coupled with digital submeter of 25A/1ph.		
	2 pcs 20A, MCB, 1Phase, 6kA coupled with digital submeter of 20A/1ph.		
	10pc 16A, MCB, 1Phase, 6kA		
	18 pc 10A, MCB, 1Phase, 6kA coupled with contactor of 10A/1ph		
	18 pc 6A, MCB, 1Phase, (for contactor coil)		
	2pc 16A, MCB, 16Phase, 6kA (spare)		
	25% reserve pitch	PCS	167,494.88
11.1.12	1 pc main 50A, MCB, 3Phase, 10kA		
	15 pc 16A, MCB, 1Phase, 6kA		

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	15 pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 16Phase,6kA (spare)		
	25% reserve pitch	PCS	30,953.76
11.1.13	1 pc main 32A, MCB, 3Phase, 10kA		
	5 pcs 25A, MCB, 1Phase, 6kA coupled with digital submeter of 25A/1ph.		
	2 pcs 20A, MCB, 1Phase, 6kA coupled with digital submeter of 20A/1ph.		
	6 pc 16A, MCB, 1Phase,6kA		
	2 pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 16Phase,6kA (spare)		
	25% reserve pitch	PCS	114,538.88
11.1.14	1 pc main 25A, MCB, 3Phase, 10kA		
	19 pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 16Phase,6kA (spare)		
	25% reserve pitch	PCS	23,351.88
11.1.15	1 pc main 160A, MCCB, 3Phase, 16kA		
	2 pcs 32A, MCB, 3Phase,10kA,		
	1 pcs 25A, MCB, 3Phase,10kA,		
	3 pcs 25A, MCB, 1Phase,6kA,		
	10 pcs 16A, MCB, 1Phase,6kA,		
	2 pcs16A, MCB, 1Phase,6kA, (SPARE)		
	25% reserve pitch	PCS	62,914.60
11.1.16	1 pc main 50A, MCB, 3Phase, 10kA		
	6 pc 16A, MCB, 1Phase,6kA		
	17 pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 16Phase,6kA (spare)		
	25% reserve pitch	PCS	27,848.76
11.1.17	1 pc main 32A, MCB, 3Phase, 10kA		
	10 pcs 25A, MCB, 1Phase, 6kA coupled with digital submeter of 25A/1ph.		
	1 pc 16A, MCB, 1Phase,6kA		
	3 pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 16Phase,6kA (spare)		
	25% reserve pitch	PCS	29,876.88
11.1.18	1 pc main 32A, MCB, 3Phase, 10kA		
	10 pcs 25A, MCB, 1Phase, 6kA coupled with digital submeter of 25A/1ph.		
	1 pc 16A, MCB, 1Phase,6kA		
	3 pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 16Phase,6kA (spare)		
	25% reserve pitch	PCS	34,007.88
11.1.19	1 pc main 50A, MCB, 3Phase, 10kA		
	2 pc 25A, MCB, 3Phase,10kA coupled with contactor of 25A/3ph		
	2pc 6A, MCB, 16Phase,6kA (for contactor coil)		
	8 pc 25A, MCB, 1Phase,6kA coupled with digital submeter of 25A/1ph.		
	2 pc 10A, MCB, 1Phase,6kA		
	1 pc 16A, MCB, 1Phase,6kA		
	2pc 25A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	143,498.76
11.1.20	1 pc main 100A, MCB, 3Phase, 16kA		
	2 pc 32A, MCB, 3Phase,10kA		
	3 pc 25A, MCB, 1Phase,6kA		
	12pc 10A, MCB, 1Phase,6kA		

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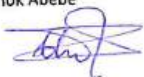


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	10 pc 16A, MCB, 1Phase,6kA		
	2pc 25A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	48,641.88
11.1.21	1 pc main 25A, MCB, 3Phase, 16kA		
	3 pc 16A, MCB, 1Phase,6kA		
	4pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	17,771.88
11.1.22	1 pc main 50A, MCB, 3Phase, 10kA		
	2 pc 25A, MCB, 3Phase,10kA coupled with contactor of 25A/3ph		
	2pc 6A, MCB, 16Phase,6kA (for contactor coil)		
	4pc 16A, MCB, 1Phase,6kA		
	5pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	65,468.76
11.1.23	1 pc main 25A, MCB, 1Phase,6kA		
	1pc 16A, MCB, 1Phase,6kA		
	1pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	11,111.88
11.1.24	1 pc main 20A, MCB, 1Phase,6kA		
	1pc 16A, MCB, 1Phase,6kA		
	1pc 10A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	11,111.88
11.1.25	1 pc main 32A, MCB, 1Phase,6kA		
	6pc 16A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	12,371.88
11.1.26	1 pc main 32A, MCB, 3Phase, 10kA		
	18pc 16A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	23,036.88
11.1.27	1 pc main 20A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	11,111.88
11.1.28	1 pc main 32A, MCB, 1Phase,6kA		
	7pc 16A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	16,286.88
11.1.29	1 pc main 32A, MCB, 1Phase,6kA		
	12pc 16A, MCB, 1Phase,6kA		
	2pc 16A, MCB, 1Phase,6kA (spare)		
	25% reserve pitch	PCS	17,861.88
11.1.30	4 pcs 10A, MCB, 1Phase,6kA		
	5 pcs 16A, MCB, 1Phase,6kA		
	1 pc time switch of 16A/1p coupled with contactor		
	1 pc 50A, main MCB, 3Phase,6kA		
	Distribution box		
	Bus bar		
	Accessories	PCS	26,141.88

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Checked by:- Gezahegn Getachew



Approved by:- Hirut Ayalew




11.1.31	5 pcs 10A, MCB, 1Phase,6kA		
	5 pcs 16A, MCB, 1Phase,6kA		
	1 pc main 25A, MCB, 3Phase,6kA		
	Distribution box		
	Bus bar		
	Accessories	PCS	17,456.88
11.1.32	3 pcs 10A, MCB, 1Phase,6kA		
	4 pcs 16A, MCB, 1Phase,6kA		
	3 pcs 25A, MCB, 1Phase,6kA		
	3 pcs 25A, Contactor, 1Phase		
	1 pc 50A, main MCB, 3Phase,6kA		
	Distribution box		
	Bus bar		
	Accessories	PCS	22,856.88
11.1.33	3 pcs 10A, MCB, 1Phase,6kA		
	2 pcs 16A, MCB, 1Phase,6kA		
	1 pc 20A, MCB, 1Phase,6kA		
	1 pc 25A, MCB, 1Phase,6kA		
	1 pc 20A, MCB, 3Phase,6kA		
	1 pc 32A, main MCB, 3Phase,6kA		
	Distribution box		
	Bus bar		
	Accessories	PCS	17,681.88
11.1.34	2 pcs 10A, MCB, 1Phase,6kA		
	3 pcs 16A, MCB, 1Phase,6kA		
	1 pc 20A, main MCB, 3Phase,6kA		
	Distribution box		
	Bus bar		
	Accessories	PCS	12,281.88
11.1.35	2 pcs 10A, MCB, 1Phase,6kA		
	1 pcs 16A, MCB, 1Phase,6kA		
	2 pcs 20A, MCB, 1Phase,6kA		
	4 pcs 25A, MCB, 3Phase,6kA		
	1 pcs 32A, MCB, 3Phase,6kA		
	1 pc 63A, main MCB, 3Phase,16kA		
	Distribution box		
	Bus bar		
	Accessories	PCS	35,861.88
11.1.36	3 pcs 10A, MCB, 1Phase,6kA		
	3 pcs time switch of 10/1p coupled with contactor		
	1 pc main 32A, MCB, 1Phase		
	Distribution box		
	Bus bar		
	Accessories	PCS	41,396.88
11.1.37	3 pcs 10A, MCB, 1Phase,6kA		
	2pcs 16A, MCB, 1Phase,6kA		
	3 pcs time switch of 10/1p coupled with contactor		
	2 pcs time switch of 16/1p coupled with contactor		
	1 pc main 32A, MCB, 1Phase		
	Distribution box		
	Bus bar		
	Accessories	PCS	61,826.88
11.1.38	Ditto but SDP-3 consisting:-		
	1 pc main 200A, MCB, 3Phase, Icu=10kA		
	1 pc main 125A, MCB, 3Phase, Icu=10kA		
	1 pcs 63A, MCB, 3Phase, Icu=6kA		
	with 4P+E busbar 250A and 25% reserve space.	PCS	74,659.60

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11.1.39	Ditto but SDP-2 consisting:-		
	1 pc main 125A, MCB, 3Phase, Icu=10kA		
	1 pc 80A, MCCB, 3Phase, Icu=10kA		
	1 pc 50A, MCB, 3Phase, Icu=10kA		
	with 4P+E busbar 100A and 25% reserve space.	PCS	52,789.60
11.1.40	Ditto but SDP-1 consisting:-		
	1 pc main 25A, MCB, 3Phase, Icu=10kA		
	2 pcs 20A, MCB, 3Phase, Icu=6kA		
	2 pcs 20A, Pulse operated latch relay, 3pole		
	1 pcs programmable time switch		
	1pc surge arrestor of 25KA		
	with 4P+E busbar 63A and 25% reserve space.	PCS	56,876.88
11.1.41	Ditto but MDP-1 with bus bars of 100A/3p+E consisting:-		
	1 pc main 80A, MCCB, 3Phase, Icu=10kA		
	4 pcs 25A, MCB, 3Phase, Icu=10kA		
	2 pcs 20A, MCB, 3Phase, Icu=6kA		
	2 pcs 20A, Pulse operated latch relay, 3pole		
	1 pcs programmable time switch		
	1pc surge arrestor of 25KA		
	with 4P+E busbar 100A and 25% reserve space.	PCS	76,313.76
11.1.42	1 pc main 2500A, ACB (Air Circuit Breaker), 3Phase, Icu=25kA		
	1 pc 630A, MCCB, 3Phase, Icu=36kA		
	5 pcs 400A, MCCB, 3Phase, Icu=20kA		
	1 pc 200A, MCCB, 3Phase, Icu=16kA		
	1 pc 160A, MCCB, 3Phase, Icu=10kA		
	1 pc 125A, MCCB, 3Phase, Icu=10kA		
	2 pc 80A, MCCB, 3Phase, Icu=10kA		
	2 pc 50A, MCB, 3Phase, Icu=6kA		
	2 pc 25A, MCB, 3Phase, Icu=6kA		
	1pc surge arrestor of 40KA		
	3pcs of Ameter 0-3200A		
	3pcs of current transformer 3200/5A		
	1pc of voltmeter with selector switch (0-500V)		
	with 4P+E busbar 3200A and 25% reserve space.with DIN rail mounted terminal blocks for all out going wires.	PCS	2,181,764.40
11.2	Light point		
11.2.1	Conductor (2x2.5mm ²)		
	PVC conduit 16mm		
	Junction Box		
	Connector	PCS	2,402.02
11.2.2	Conductor (3x2.5mm ²)		
	PVC conduit 16mm		
	Junction Box		
	Connector	PCS	3,048.82
11.2.3	Conductor (2x2.5mm ²)		
	PVC conduit 16mm		
	Junction Box		
	Connector		
	1.inch steel pipe	PCS	4,488.59
11.2.4	Conductor (3x4mm ²)		
	PVC conduit 50mm		
	Junction Box		
	Connector	PCS	3,217.41
11.2.5	cable (5x4mm ²)		
	PVC conduit 25mm		
	Junction Box		
	Connector	PCS	6,754.52
11.2.6	cable (5x2.5mm ²)		
	PVC conduit 20mm		
	Junction Box		
	Connector	PCS	4,793.16

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11.3	SWITCHES		
11.3.1	Normal switch	pcs	200.48
11.3.2	Flush mounted single switch 774001+774041	PCS	464.40
11.3.3	Flush mounted 2 gang single switch ,774005+774041	PCS	466.75
11.3.4	Flush mounted 2 gang two way switch ,774005+774041	PCS	146.98
11.3.5	Flush mounted two way switch, 774006+774041	PCS	464.40
11.3.6	Intermediate switch	PCS	662.64
11.4	Socket outlet point		
11.4.1	Conductor (3x6mm ²)		
	PVC conduit 25mm		
	Junction Box		
	Connector	PCS	7,128.26
11.4.2	Conductor (3x2.5mm ²)		
	PVC conduit 16mm		
	Junction Box		
	Connector	PCS	2,818.44
11.4.3	Conductor (3x2.5mm ²)		
	PVC conduit 25mm		
	Junction Box		
	Connector	PCS	3,095.00
11.4.4	Conductor (3x4mm ²)		
	PVC conduit 25mm		
	Junction Box		
	Connector	PCS	5,150.24
11.4.5	Conductor (5x2.5mm ²)		
	Conduit (25mm)		
	Junction Box		
	Connector	PCS	4,649.70
11.5	Power outlet point		
11.5.1	25A/1P 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. (length ave=25m)	PCS	3,231.75
11.5.2	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=25m)	PCS	4,290.56
11.5.3	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.(Average length 10m)	PCS	3,436.68
11.5.4	16A/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	PCS	1,196.12
11.5.5	32A/3P power outlet points for Confrence AHU Chiller fed through PVC shethed Cable of 5x6mm ² inside PVC conduit of 29mm diameter including junction boxes with covers and insulating screw cap connectors.(Average length =40m)	PCS	6,988.80
11.5.6	Surface mounted fan points fed through PVC insulated conductors of 3x2.5 mm ² inside PVC conduits of 16 mm diameter, including junction boxes with covers insulating screw cap connectors.	PCS	1,196.12
11.5.7	Ceiling fan type VORTICE NORDIK 120cm/48 inches code no.61711	PCS	6,988.80
11.5.8	Five position speed controller model SCNR5 code 12955.	PCS	1,674.29
11.6	EXTRA OVER SOCKET OUTLETS		
11.6.1	Single socket economic /ሰኬት /	pc	198.50
11.6.2	Flush mounting single socket of 10A/1P,	pc	445.34
11.6.3	FLUSH MOUNTED Socket outlet	PCS	394.85
11.6.4	FLUSH MOUNTED Socket outlet twin	PCS	439.73
11.6.5	FLUSH MOUNTED Socket outlet 20A/1P	PCS	548.56
11.6.6	FLUSH MOUNTED Socket outlet for water heater	PCS	518.27
11.6.7	Industrial type Socke outlet of 16A/1P,Legrand p 17 tempr, 55553	PCS	541.27
11.6.8	INDUSRIAL TYPE Socket outlet of 16A/3P,Legrand p 17 tempr, 55558	PCS	555.85

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11.4	Light Fitting and Lamps		
11.41.1	TYPE-1 = MODUS IKO(P) EP 1X36W/840	PCS	1,335.55
11.41.2	TYPE-2 = DISANO 727 COMFORT 2X36W/840	PCS	1,762.20
11.41.3	TYPE-2E = DISANO 727 COMFORT 2X36W + EM.KIT	PCS	3,832.20
11.41.4	TYPE-3 = DISANO 776 COMFORT 2X36W/840	PCS	1,762.20
11.41.5	TYPE-4 = DISANO 776 COMFORT 4X18W/840	PCS	2,049.70
11.41.6	TYPE-4" = DISANO 877 COMFORT 4X18W/840	PCS	2,337.20
11.41.7	TYPE-5 = DISANO 883 COMPACT FLC 2X18W	PCS	2,287.75
11.41.8	TYPE-6 = DISANO 418-RIGO FL-1X13 ECO	PCS	2,337.20
11.41.9	TYPE-7 = RZB 221044.964 TC-D 18W	PCS	704.20
11.41.10	TYPE-8 = PHILIPS pacific TCW216 1x36w/840	PCS	2,337.20
11.41.11	TYPE-9 = DISANO 3123 DIRECT/INDIRECT JM-E 150W	PCS	5,902.20
11.41.12	TYPE-10 = DISANO 727 COMFORT FL-4X36W	PCS	2,394.70
11.41.13	TYPE-10E = DISANO 727 COMFORT FL-4X36W + EM.KIT	PCS	2,337.20
11.41.14	TYPE-11 = PHILIPS TBH375 2XTL-D 58 W LAMP	PCS	3,291.70
11.41.15	TYPE-12 = RZB 311189.952 TC-D 4X26W	PCS	1,302.20
11.41.16	TYPE-13 = RZB 331090.834 TC-T 2X26W	PCS	1,877.20
11.41.17	TYPE-14 = DISANO 1159 INDIO- ASYMETRIC JM-T 400	PCS	2,337.20
11.41.18	TYPE-15 = PHILIPS BATTEN TMS 022 IC 1X36 /840W	PCS	538.60
11.41.19	Type EXIT = MODUS TIGER + 1XT5 8WLamp	PCS	3,050.20
11.41.20	TYPE-EI DISANO 612 SAFTY ONLY EMERGENCY 3H S.E FLC 18L	PCS	3,050.20
11.41.21	Type 13(RZB 931089.952 + TCD-2X26W Lamps.)	PCS	1,129.70
11.41.22	Type 14(DISANO 920 Hydro FL-2x36 + 2X T8 18W/840 Lamps.)	PCS	1,601.20
11.41.23	Type 15(DISANO 3132 Tex wide beam + 1X CDM-T 150W Lamp.)	PCS	3,291.70
11.41.24	Type 16(DISANO 1290 Cilindro 1 + 2X CDM-T 35W Lamps.)	PCS	1,963.45
11.41.25	Type 17(DISANO 1294 Cilindro + 1X CDM-T 35W Lamp.)	PCS	1,661.58
11.41.26	Type 19(MASSIVE Breeze 34096/11/10 + 2XG9 max. 25W Lamps.)	PCS	900.85
11.41.27	Type 20(RZB 631058.224 + 1XTC-TEL 42W Lamp.)	PCS	1,963.45
11.41.28	TYPE-A = PHILIPS ARENAVISON MVF 404 B1 with 1x MHN-SEH 2000W/400V/956	PCS	55,572.44
11.41.29	TYPE-B = PHILIPS ARENAVISON MVF 404 B3 with 1x MHN-SEH 2000W/400V/956	PCS	55,093.45
11.41.30	Obstruction light LED Philips to be fixed on the highest point of the mast. Provide necessary accessories on the arms for fixing it.	PCS	2,084.20
11.41.31	Supply and fix floor standing IP65 metallic enclosure with locable door to accommodate 82 pices of flood light gears.	PCS	24,302.20
11.41.32	Type 25(DISANO 3132 Tex wide beam + 1X SAP-T 150W Lamp.)	PCS	3,231.90
11.41.33	Type 26(DISANO 1298 Meridiana + 1X JM-TS 70 W Lamp.)	PCS	1,963.45
11.41.34	Type 27(DISANO 3132 Tex narrow beam + 1X CDM-T 150W Lamp.)	PCS	3,170.95
11.41.35	Type E1(MODUS HELIOS 18 SE + 1X 18-TC-L 18W Lamp.)	PCS	1,299.33
11.41.36	Type E2(MODUS TIGER P SE + 1X 8 T5 Lamp.)	PCS	876.70
11.41.37	Type Exit(MODUS PANORAMA SE + 1X 11-TC-S 11W Lamp.)	PCS	3,533.20
11.41.38	Directional Exit(MODUS ESCAPE ALU SE + 1X 8 T5 Lamp.)	PCS	3,533.20
11.41.39	Type 3(DISANO 1664 Ghisallo 1 with glass + 1x SAP-T 250W Lamp.)	PCS	4,982.20
11.41.40	Type 18(DISANO 1202 Polar with glass + 1x SAP-E 100W Lamp.)	PCS	3,170.95
11.41.41	Fluorescent fitting type MODUS		
11.41.42	TU 236K + 2XT8 36W/840 lamps(No 1).	PCS	1,149.25
11.41.43	Fluorescent fitting type MODUS		
11.41.44	TU 236K + RFTUB 236 + 2XT8 36W/840W(No 2)	PCS	1,149.25
11.41.45	Fluorescent fitting type MODUS		
11.41.46	TU 118K + 1XT8 18W/480 LAMP(No 3) & No10	PCS	715.24
11.41.47	Fluorescent fitting type MODUS		
11.41.48	TU 136K + 1XT8 36W/840 LAMP(No 4)	PCS	715.24
11.41.49	Fluorescent fitting type MODUS		
11.41.50	P 236K + 2XT8 36W/840 LAMPS(No 5 & 15)	PCS	2,582.25
11.41.51	Interior wall light fitting type RZB 25146.003 + A60 60W LAMP(No 6)	PCS	914.65
11.41.52	Exterior wall light fitting type RZB 22130.003 + A60 100W LAMP(No 7)	PCS	715.24
11.41.53	Emergency light fitting type RZB 671467.752 with T16 8W/3h lamp and EXIT sign (E1)	PCS	4,609.60
11.41.54	Fluorescent fitting type MODUS		
11.41.55	P 136K + 2XT8 36W/840 LAMPS(No 11)	PCS	2,029.00
11.41.56	Emergency light fitting type RZB 671467.752 with T16 8W/3h lamp and EXIT sign (E1)	PCS	4,609.60
11.41.57	Emergency light fitting type RZB 671467.752 with T16 8W/3h lamp (E)	PCS	4,609.60
11.41.58	Fluorescent fitting type MODUS TU 236K + RFTUB 236 + 2xT8 36W/840 lamps suspended by 2.0m rigid steel conduit of 16mm diameter.	PCS	1,244.70
11.41.59	LED Ceiling lamp, 25W, dia 380mm	PCS	3,630.00
11.41.60	LED panel lamp, 595x595, 40w	PCS	3,366.00
11.41.61	LED Ceiling lamp, 18w, dia 330mm, waterproof	PCS	1,001.00
11.41.62	LED wall/ceiling mounted lamp, 24w	PCS	1,265.00
11.41.60	RZB 721284.734 + 981399.000 + 1X HIE 1000W Lamp	PCS	33,381.28

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11.4	Lightning Protection System		
11.42.1	Early Streamer Emmission(ESE) Protector SI 60 to be mounted on top of the flood light pole of H=53m and all necessary connecting accessories.	PCS	30,994.26
11.42.2	Early Streamer Emmission(ESE) Protector SI 60 to be mounted on top of the roof structure with mounting mast of H=4.6m and all necessary connecting accessories.	PCS	30,994.26
11.42.3	16mm Air Termination circular galvanized steel rod 1.0m length	PCS	414.94
11.42.4	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	617.91
11.42.5	1x70mm.sq galvanized Steel earth conductor ring as indicated on the drawing	ml	180.11
11.42.6	b) (1x10)mm sq. bare copper bonding conductor from earth rod to SDP-1 & MDP-1	ml	74.14
11.42.7	c) (1x25) mm sq. bare copper bonding conductor from earth rod to SDP-2	ml	126.23
11.42.8	d) (1x50)mm sq. bare copper bonding conductor from earth rod to SDP-3	ml	208.81
11.42.9	Circular bare galvanized steel conductor of 10mm from testing junction box to earth rod	ml	160.40
11.42.10	Diameter 16mm & 1500mm long copper rod	ml	729.78
11.42.11	a) 1500x16mm copper bond earthing rod including accessories inside manhole for SDP 1 , SDP-2, SDP-3 & MDP-1	PCS	716.21
11.42.12	30x3.5mm galvanized steel ring earth termination net work.	ml	281.76
11.42.13	1500mm long and 50x50x3mm X-head galvanized steel earth rod including all connecting accessories.	PCS	1,560.07
11.42.14	Bonding materials for down conductor with air termination		
	Bonding materials to roof conductors holder		
	Bonding down conductor		
	Distance holders for earth termination	PCS	11,066.06
11.42.15	Bonding materials for down conductor with air termination		
	Bonding materials to roof conductors holder		
	Bonding down conductor		
	Distance holders for earth termination	PCS	14,129.12
11.42.16	Bonding materials for down conductor with air termination		
	Bonding materials to roof conductors holder		
	Bonding down conductor		
	Distance holders for earth termination	PCS	14,114.10
11.42.17	Bonding materials for down conductor with air termination		
	Bonding materials to roof conductors holder		
	Bonding down conductor		
	Distance holders for earth termination	PCS	11,517.24
11.42.18	Bonding materials for down conductor with air termination		
	Bonding materials to roof conductors holder		
	Bonding down conductor		
	Distance holders for earth termination	PCS	13,318.31

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11.4	12.Low voltage system earthing		
11.43.1	Low voltage system earthing consisting of 1x16mm ² bare copper conductor (6m) and 2400x16mm copper bond earthing rod inside manhole including all connecting accessories.	PCS	1,068.84
11.43.2	(1*10mm ²) bare copper conductor (7m) inside rigid PVC conduit of 36mm diameter	PCS	679.09
11.43.3	(1*16mm ²) bare copper conductor (7m) inside rigid PVC conduit of 36mm diameter	PCS	692.45
11.43.4	(1*6mm ²) bare copper conductor (5m) inside rigid PVC conduit of 32mm diameter & 1500x16mm copper bond earthing rod inside manhole (measured elsewhere) including all accessories	PCS	1,024.03
11.43.5	(1*16mm ²) bare copper conductor (10m) inside rigid PVC conduit of 36mm diameter	PCS	1,870.55
11.43.6	(1*10mm ²) bare copper conductor (10m) inside rigid PVC conduit of 36mm diameter	PCS	1,688.35
11.43.7	(1*16mm ²) bare copper conductor (11m) inside rigid PVC conduit of 16mm diameter & 2400x16mm copper bond earthing rod inside manhole (measured elsewhere) including all accessories	PCS	1,264.02
11.43.8	(1*10mm ²) bare copper conductor (10m) inside rigid PVC conduit of 16mm diameter & 2400x16mm copper bond earthing rod inside manhole (measured elsewhere) including all accessories	PCS	1,200.16
11.43.9	(1*25mm ²) bare copper conductor (10m) inside rigid PVC conduit of 36mm diameter earthing rod inside manhole (measured elsewhere) including all accessories	PCS	1,915.63
11.43.10	(1*10mm ²) bare copper conductor (10m) inside rigid PVC conduit of 16mm diameter & 2400x16mm copper bond earthing rod inside manhole (measured elsewhere) including all accessories	PCS	1,870.55
11.43.12	(1*16mm ²) bare copper conductor (11m) inside rigid PVC conduit of 16mm diameter & 2400x16mm copper bond earthing rod inside manhole (measured elsewhere) including all accessories	PCS	1,805.00
11.43.13	(1*16mm ²) bare copper conductor (5m) inside rigid PVC conduit of 25mm diameter & 1500x16mm copper bond earthing rod inside manhole (measured elsewhere) including all accessories	PCS	866.48
11.43.14	(1*16mm ²) bare copper conductor (16m) inside rigid PVC conduit of 16mm diameter & 1500x16mm copper bond earthing rod inside manhole (measured elsewhere) including all accessories	PCS	1,115.07
11.43.15	1x185mm. Sq. Bare copper bonding conductor	ml	4,127.64
11.43.16	1x150mm. Sq. Bare copper bonding conductor	ml	3,945.73
11.43.17	1x120mm. Sq. Bare copper bonding conductor	ml	3,157.44
11.43.18	1x50mm. Sq. Bare copper bonding conductor	ml	1,459.59
11.43.19	1x16mm. Sq. Bare copper bonding conductor	ml	472.42
11.43.20	1x6mm. Sq. Bare copper bonding conductor	ml	197.47
11.43.21	1500x16mm copper earth rod	ml	1,983.63
11.5	Feeder Cables		
11.45.1	100x130 CABLE TRENCH	ml	7,317.78
11.45.2	3x70/35+1x35sq.mm	ml	7,729.86
11.45.3	3x50/25+1x25sq.mm	ml	7,562.26
11.45.4	3x25/16+1x16sq.mm	ml	3,802.52
11.45.5	2x2.5sqmm	ml	374.08
11.45.6	2x2.5sqmm Cable conduit 16mm	ml	420.58
11.45.7	3x4 sq.mm	ml	707.98
11.45.8	3x6sq.mm	ml	956.30
11.45.9	3x10sq.mm	ml	1,282.26
11.45.10	3x4sqmm Cable conduit 25mm	ml	789.25
11.45.11	3x6sqmm Cable conduit 32mm	ml	1,077.61
11.45.12	3x10sqmm Cable conduit 36mm	ml	1,446.26
11.45.13	5x4sq.mm	ml	945.72
11.45.14	5x6sq.mm	ml	1,313.27
11.45.15	5x10sq.mm	ml	1,889.19
11.45.16	5x16sqmm Cable	ml	3,023.32
11.45.17	5x4sqmm Cable conduit 25mm	ml	1,040.97
11.45.18	5x 6sqmm Cable conduit 32mm	ml	1,428.46
11.45.19	5x10sqmm Cable conduit 36mm	ml	2,293.49
11.45.20	5x16sqmm Cable conduit 50mm	ml	3,110.56
11.45.21	3x25/16+1x16 from MLPP- STA to LPP-N-0-85-86 conduit 50mm	ml	3,846.16
11.45.22	3x25/16	ml	3,304.30
11.45.23	3x35/16	ml	4,248.13
11.45.24	3x95/50	ml	14,156.52
11.45.25	3x240/120	ml	23,498.02
11.45.26	3x25/16+1x16 from MLPP- STA to LPP-N-0-85-86	ml	3,843.83
11.45.27	3x35/16+1x16 from MLPP- STA to LPP-N-0-85-86	ml	5,074.54
11.45.28	3x75/35+1x35 from MLPP- STA to LPP-W-0-57-58	ml	6,228.78
11.45.29	3x120/70+1x70 from CMDB to SDP1	ml	10,432.53
11.45.30	3x150/70+1x70 from CMDB to SDP1	ml	13,424.80

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11.45.31	3x185/95+1x95 from MLPP- STA to LPP-W-0-57-58	ml	13,959.88
11.45.32	3x300/150+1x150 from MLPP- STA to LPP-W-0-57-58	ml	28,413.78
11.45.33	Insulated ground connecting copper cable of 1x70sq.mm	ml	2,518.53
11.45.34	Under ground termination network with bare copper conductor of 1x70sq.mm	ml	2,748.02
11.45.35	a) PVC Sheathed PVC Insulated cable type NYY 0.6/1kV of 5x4 sqmm in from SDPs to light fittings on mast	ml	820.62
11.45.36	PVC Sheathed PVC Insulated Underground cable , Minimum operating tempratrue +70°. Rated voltage 0.6/1kV of 5(3x240/120 sq.mm) sqmm from Transformers to ATS and GEN to ATS ,from ATS to CMDB	ml	93,993.02
11.45.37	Ditto but , 3X240/120 sq.mm from CMDB to MDB, LP-1, LP-2, LP-3 AND LP-4 (5 in Nos)	ml	18,918.02
11.45.38	Ditto but, 2(3X185/95) sq.mm from CMDB to SMDB	ml	149.27
11.45.39	Ditto but, 3X95/50 sq.mm from CMDB to DB-UPS & SDP-3 (2 in Nos)	ml	17,348.27
11.45.40	Ditto but, 3X50/25 sq.mm from CMDB to SDP-2 and from SDP-3 up to domestic water supply pump control board	ml	5,462.27
11.45.41	Ditto but, 3X25/16 sq.mm from LCMDB, MDP-1 (2 in Nos) ,and from SDP-2 up to irrigation pump control board	ml	2,776.90
11.45.42	Ditto but, 4x10 sq.mm to SDP-1, MDP-1 (16 in Nos)	ml	1,520.83
11.45.43	b) Ditto, but of 2x2.5 sqmm for fitting connection	ml	380.27
11.5 conduits and pipes			
11.46.1	PVC Pipe Dia32mm	PCS	136.01
11.46.2	PVC Pipe Dia 36mm	PCS	187.67
11.46.3	PVC Pipe Dia50mm	PCS	208.80
11.46.4	PVC Pipe Dia75mm	PCS	289.35
11.46.5	PVC Pipe Dia80mm	PCS	289.35
11.46.6	PVC Pipe Dia110mm	PCS	443.61
11.46.7	PVC Pipe Dia160mm	PCS	950.47

Prepared by :- Henok Abebe



Checked by:- Gezahegn Getachew



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 flexible (RAK)	PCS	13,584.85
12.1.2	HWB size 45 * 55 cm with all Accessories (Golden dragon sealed)	PCS	11,084.85
12.1.3	HWB size 40 * 50 cm with all Accessories (AQUA)	PCS	9,084.85
12.2	Low flash water closet		
12.2.1	Low flash WC with all accessories (RAK)	PCS	21,084.85
12.2.2	Low flash WC with all accessories (Golden dragon sealed)	PCS	19,584.85
12.2.3	Low flash WC with all accessories (AQUA)	PCS	13,384.85
12.2.4	Low flash WC with all accessories (Tabor ceramic)	PCS	5,284.85
12.2.5	Turkish type WC (RAK)	PCS	3,884.85
12.2.6	Turkish type WC (Tabor ceramic)	PCS	3,284.85
12.3	Urinal		
12.3.1	White glazed urinal with all accessories	PCS	6,117.44
12.3.2	Urinal with all accessories	PCS	6,117.44
12.4	Toilet paper holder		
12.4.1	Toilet paper holder	PCS	659.59
12.4.2	Toilet paper holder economy version	PCS	629.59
12.4.3	40 x 50 cm glass mirror	PCS	1,779.09
12.5	Soap holder		
12.5.1	Soap holder best quality	PCS	929.59
12.5.2	Soap holder economy version	PCS	699.59
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	847.71
12.6.2	Supply and fix midium 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	797.71
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	737.71
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	4,560.85
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	4,060.85
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	3,860.85
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	5,060.85
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	4,860.85
12.7.6	Shower box 90x90cm	PCS	8,066.85
12.7.7	Disabled Hand wash basine	PCS	36,995.20
12.7.8	Disabled Water Closet Unit	PCS	31,871.95
12.7.9	Disabled Toilet	PCS	72,310.50

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Approved by:- Hirut Ayalew




12.8 Bath Tab		
12.8.1 70x170cm Bath Tab with all accessories	PCS	6,442.55
12.8.2 70x170cm Bath Tab with all accessories midium quality	PCS	5,342.55
12.8.3 70x170cm Bath Tab with all accessories (fiber glass)	PCS	4,842.55
12.8.5 80x150 cm Jacuzzi (bath tub) with all accessories	pc	34,572.64
12.8.6 124x190 cm Jacuzzi (bath tub) with all accessories	pc	48,754.64
12.8.7 150x150 cm Jacuzzi (bath tub) with all accessories	pc	67,527.64
12.8.8 180x130 cm digital control Jacuzzi (bath tub)with steam & all accessories.	pc	149,527.64
12.8.9 (3 in 1) 180x180 cm digital control Jacuzzi (bath tub) with steam, foot masage & shower all accessories.	pc	172,527.64
12.8.10 Fire hose cabinet complete with all accessories	PCS	22,601.15
12.9 Kitchen sink		
12.9.1 Kitchen sink (double bowel) Italy	PCS	7,193.44
12.9.2 Kitchen sink (double bowel) AQUA	PCS	6,955.44
12.9.3 Kitchen sink (double bowel) Milano	PCS	5,193.44
12.9.4 Kitchen sink (Single bowel) AQUA	PCS	4,793.44
12.9.5 Kitchen sink (Single bowel) Milano	PCS	4,793.44
12.1 Water heater		
12.10.1 Instant Water heater	PCS	18,042.55
12.10.2 50lt Water heater ordinary	PCS	25,642.55
12.10.3 80lt Water heater ordinary	PCS	32,407.77
12.10.4 100lt Water heater ordinary	PCS	40,342.55
12.10.5 50lt Water heater (Ariston)	PCS	25,642.55
12.10.6 80lt Water heater (Ariston)	PCS	32,407.77
12.10.7 100lt Water heater (Ariston)	PCS	40,342.55
12.10.8 Emergency shower complete with eye wash with bow	PCS	44,842.55
12.10.9 Fire hose cabinet complete with all accessories	PCS	24,873.02
12.1 Floor drain		
12.11.1 Floor drain (100mm)	PCS	907.82
12.11.2 Floor drain (80mm)	PCS	533.56
12.11.3 Floor drain (50mm)	PCS	455.65
12.11.4 Dia. 110mm clean out waste water	PCS	640.14
12.11.5 Dia. 80mm clean out	PCS	501.81
12.11.6 Dia.50mm clean out	PCS	407.95
12.11.7 Precast cloth washing basin	PCS	3,441.63
12.1 PPR Pipe		
12.12.1 1/2" PPR Pipe	ml	258.45
12.12.2 3/4" PPR Pipe	ml	301.47
12.12.3 1" PPR Pipe	ml	386.92
12.12.4 1 1/4" PPR Pipe	ml	398.47
12.12.5 1 1/2" PPR Pipe	ml	493.50
12.12.6 2" PPR Pipe	ml	583.26
12.12.7 2 1/2" PPR Pipe	ml	765.59
12.12.8 3" PPR Pipe	ml	1,200.36
12.1 Galvanized Steel Pipe		
12.13.1 1/2" Galvanaized Steel Pipe (GSP) 15mm	ml	626.81
12.13.2 3/4" Galvanaized Steel Pipe (GSP) 20mm	ml	793.48
12.13.3 1" Galvanaized Steel Pipe (GSP) 25mm	ml	960.87
12.13.4 1 1/4" Galvanaized Steel Pipe (GSP) 32mm	ml	1,145.81
12.13.5 1 1/2" Galvanaized Steel Pipe (GSP) 40mm	ml	1,293.48
12.13.6 2" Galvanaized Steel Pipe (GSP) 63mm	ml	1,699.05
12.13.7 2 1/2" Galvanaized Steel Pipe (GSP) 75mm	ml	1,621.26
12.13.8 3" Galvanaized Steel Pipe (GSP)	ml	2,865.73
12.13.9 3 1/2" Galvanaized Steel Pipe (GSP)	ml	3,342.79
12.13.10 4" Galvanaized Steel Pipe (GSP)	ml	3,769.87
12.13.11 5" Galvanaized Steel Pipe (GSP)	ml	4,399.06
12.13.12 6" Galvanaized Steel Pipe (GSP)	ml	5,534.20
12.13.13 8" Galvanaized Steel Pipe (GSP)	ml	6,426.48
12.13.14 10" Galvanaized Steel Pipe (GSP)	ml	7,527.65
12.13.15 12" Galvanaized Steel Pipe (GSP)	ml	8,807.19

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12.1	Cast iron Pipe		
12.14.1	31/2" Cast iron Pipe (CIP)	ml	1,094.65
12.14.2	4" Cast iron Pipe (CIP)	ml	1,649.44
12.14.3	5" Cast iron Pipe (CIP)	ml	1,917.97
12.14.4	6" Cast iron Pipe (CIP)	ml	2,224.20
12.14.5	8" Cast iron Pipe (CIP)	ml	3,092.16
12.14.6	10" Cast iron Pipe (CIP)	ml	4,055.82
12.14.7	12" Cast iron Pipe (CIP)	ml	5,267.62
12.2	HDP Pipe (PN 16)		
12.15.1	1/2" HDP Pipe	ml	677.12
12.15.2	3/4" HDP Pipe	ml	730.08
12.15.3	1" HDP Pipe	ml	756.95
12.15.4	1 1/4" HDP Pipe	ml	797.98
12.15.5	1 1/2" HDP Pipe	ml	408.90
12.15.6	2" HDP Pipe	ml	509.77
12.15.7	2 1/2" HDP Pipe	ml	710.47
12.15.8	3" HDP Pipe	ml	937.67
12.15.9	3.5" HDP Pipe	ml	1,267.25
12.15.10	4" HDP Pipe	ml	1,535.58
12.15.11	5" HDP Pipe	ml	2,302.20
12.2	HDPE Pipe (PN 16)		
12.16.1	160 mm. dia. HDPE Pipe (PN16)	ml	1,934.95
12.16.2	200 mm. dia. HDPE Pipe (PN16)	ml	2,386.05
12.16.3	225 mm. dia. HDPE Pipe (PN16)	ml	3,206.62
12.16.4	250 mm. dia. HDPE Pipe (PN16)	ml	3,080.65
12.16.5	315 mm. dia. HDPE Pipe (PN16)	ml	4,218.63
12.16.6	355 mm. dia. HDPE Pipe (PN16)	ml	4,562.40
12.16.7	400 mm. dia. HDPE Pipe (PN16)	ml	4,923.84
12.16.8	455 mm. dia. HDPE Pipe (PN16)	ml	5,394.83
12.2	HDP Pipe (PN 10)		
12.17.1	1 1/4" HDP Pipe	ml	724.85
12.17.2	1 1/2" HDP Pipe	ml	770.62
12.17.3	2" HDP Pipe	ml	808.45
12.17.4	2 1/2" HDP Pipe	ml	895.67
12.17.5	3" HDP Pipe	ml	984.17
12.17.6	3.5" HDP Pipe	ml	1,137.23
12.17.7	4" HDP Pipe	ml	1,317.30
12.17.8	5" HDP Pipe	ml	1,456.01
12.2	HDPE Pipe (PN 10)		
12.18.1	160 mm. dia. HDPE Pipe (PN10)	ml	1,615.89
12.18.2	200 mm. dia. HDPE Pipe (PN10)	ml	2,161.08
12.18.3	225 mm. dia. HDPE Pipe (PN10)	ml	2,573.38
12.18.4	250 mm. dia. HDPE Pipe (PN10)	ml	3,029.26
12.18.5	315 mm. dia. HDPE Pipe (PN10)	ml	4,377.73
12.18.6	355 mm. dia. HDPE Pipe (PN10)	ml	5,377.91
12.18.7	400 mm. dia. HDPE Pipe (PN10)	ml	6,646.62
12.18.8	455 mm. dia. HDPE Pipe (PN10)	ml	8,193.55
12.18.9	Service Valve 1/ 2"	PCS	379.66
12.18.10	Service Valve 3/ 4"	PCS	431.95

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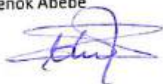


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12.2	BRONEZ Gate Valve		
12.19.1	BRONEZ Gate Valve PN 16 1/2"X20	PCS	386.00
12.19.2	BRONEZ Gate Valve PN 16 3/4"	PCS	377.60
12.19.3	BRONEZ Gate Valve PN 16 1"(25)	PCS	497.60
12.19.4	BRONEZ Gate Valve PN 16 32MM	PCS	689.60
12.19.5	BRONEZ Gate Valve PN 16 40MM	PCS	1,049.60
12.19.6	BRONEZ Gate Valve PN 16 2"	PCS	1,169.60
12.19.7	BRONEZ Gate Valve PN 16 2 1/2"	PCS	1,349.60
12.19.8	BRONEZ Gate Valve PN 16 3"	PCS	3,749.60
12.19.9	BRONEZ Gate Valve PN 16 4"	PCS	11,956.41
12.19.10	BRASS Gate Valve PN 16 3"	PCS	4,583.07
12.19.11	BRASS Gate Valve PN 16 2 1/2"	PCS	3,563.23
12.19.12	BRASS Gate Valve PN 16 1 1/2"	PCS	1,491.19
12.19.13	BRASS Gate Valve PN 16 2"	PCS	2,206.77
12.19.14	BRASS Gate Valve PN 16 2 1/2"	PCS	3,563.23
12.19.15	BRONEZ Gate Valve PN 16 3"	PCS	4,454.84
12.19.16	BRONEZ Gate Valve PN 16 3.5"	PCS	7,796.36
12.19.17	FLOAT VALVE Valve PN 16 2"(50)	PCS	819.17
12.19.18	BRASS Gate Valve PN 16 4"	PCS	14,466.70
12.19.19	BRASS Gate Valve PN 16 3" two way	PCS	7,308.24
12.19.20	BRASS Gate Valve PN 16 4" two way	PCS	16,581.71
12.19.21	BRASS Gate Valve PN 16 5" two way	PCS	18,153.55
12.19.22	BRASS Gate Valve PN 16 6"	PCS	14,509.36
12.19.23	BRASS Gate Valve PN 16 8"	PCS	20,319.43
12.19.24	BRASS Gate Valve PN 16 10"	PCS	25,328.70
12.19.25	BRASS Gate Valve PN 16 12"	PCS	32,404.54
12.2	Cast iron Valve		
12.20.1	Cast iron Valve PN 16 90mm	PCS	16,594.70
12.20.2	Cast iron Valve PN 16 100mm	PCS	23,867.42
12.20.3	Cast iron Valve PN 16 150mm	PCS	30,562.26
12.20.4	Cast iron Valve PN 16 200mm	PCS	44,620.21
12.20.5	Cast iron Gate Valve PN 16 300mm	PCS	57,303.51
12.2	Water Meter		
12.21.2	25mm dia. Water Meter.	PCS	1,481.10
12.21.3	50mm dia. Water Meter.	PCS	3,787.17
12.2	UPVC Pipe		
12.22.1	50 mm. dia. UPVC Pipe	ml	261.07
12.22.2	65 mm. dia. UPVC Pipe	ml	317.35
12.22.3	80 mm. dia. UPVC Pipe	ml	545.14
12.22.4	110 mm. dia. UPVC Pipe	ml	758.89
12.22.5	125 mm. dia. UPVC Pipe	ml	855.44
12.22.6	160 mm. dia. UPVC Pipe	ml	1,505.94
12.22.7	200 mm. dia. UPVC Pipe	ml	1,686.87
12.22.8	225 mm. dia. UPVC Pipe	ml	1,766.72
12.22.9	250 mm. dia. UPVC Pipe	ml	2,061.21
12.22.10	315 mm. dia. UPVC Pipe	ml	2,540.00
12.22.11	355 mm. dia. UPVC Pipe	ml	2,920.31
12.22.12	400 mm. dia. UPVC Pipe	ml	3,522.92
12.22.13	450 mm. dia. UPVC Pipe	ml	3,826.07
12.22.14	500 mm. dia. UPVC Pipe	ml	4,507.68

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12.2	Vent cap		
12.23.1	Dia. 50mm Vent cap	PCS	112.91
12.23.2	Dia. 80mm Vent cap	PCS	130.30
12.23.3	Dia. 100mm Vent cap	PCS	137.09
12.2	UPVC Pipe down pipe		
12.24.1	80 mm. dia. UPVC Pipe down pipe	ml	345.20
12.24.2	110 mm. dia. UPVC Pipe down pipe	ml	560.41
12.24.3	125 mm. dia. UPVC Pipe down pipe	ml	661.65
12.24.4	160 mm. dia. UPVC Pipe down pipe	ml	1,003.37
12.24.5	160 mm. dia. PERFORATED PIPE	ml	1,333.67
12.3	Curb stone		
12.32.1	Curb stone in C-25 size 150x400mm	ml	1,216.71
12.3	Concrete Drain cover		
12.33.1	Concrete Drain cover 100x30x20cm C-25	ml	2,497.19
12.33.2	Concrete Drain cover 90x30x20cm C-25	ml	2,261.06
12.3	Water tank		
12.34.5	Fiber glass water tank 500 lt capacity	No.	10,197.69
12.34.6	Fiber glass water tank 1000 lt capacity	No.	14,761.52
12.34.7	Fiber glass water tank 3000 lt capacity	No.	29,697.69
12.34.8	Fiber glass water tank 5000 lt capacity	No.	43,697.69
12.34.9	Fiber glass water tank 10000 lt capacity	No.	70,697.69
12.34.10	Fiber glass water tank 15000 lt capacity	No.	97,697.69
12.34.11	Fiber glass water tank 20000 lt capacity	No.	126,697.69
12.34.12	Fiber glass water tank 25000 lt capacity	No.	136,697.69
12.4	HDPE Pipe		
12.35.1	3/4" HDP Pipe	ml	379.63
12.35.2	1" HDP Pipe	ml	366.37
12.35.3	1 1/4" HDP Pipe	ml	384.03
12.35.4	1 1/2" HDP Pipe	ml	416.98
12.35.5	2" HDP Pipe	ml	450.97
12.35.6	2 1/2" HDP Pipe	ml	520.88
12.35.7	3" HDP Pipe	ml	600.00
12.35.8	3.5" HDP Pipe	ml	760.63
12.4	UPVC Pipe (PN6)		
12.36.1	200 mm. dia. UPVC Pipe (PN6)	ml	1,823.46
12.36.2	250 mm. dia. UPVC Pipe (PN6)	ml	2,150.27
12.36.3	300 mm. dia. UPVC Pipe (PN6)	ml	2,271.10
12.36.4	160 mm. dia. UPVC Pipe (PN6)	ml	1,632.88

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ROAD WORK MAIN ITEMS

ITEM NO	DESCRIPTION	UNIT	2016 2ND QUARTER DIRECT COST (WITHOUT OVERHEAD & PROFIT)
1	Capping layer under the sub base layer(Granular) compacted to thickness of 200mm up to 5km distance.	m ³	785.70
2	Gravel sub base compacted to 96% AACRA test S-11 Density (Compacted layer of maximum 150mm)	m ³	1328.50
3	Base course compacted to 96% AACRA test S-11 Density (Compacted layer of maximum 150mm)	m ³	1371.46

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Checked by:- Gezehegn Getachew



Approved by:- Hirut Ayalew



ITEM.NO.	DESCRIPTION	UNIT	2016 2nd 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	1150.48
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	1580.00
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	1589.98
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	1335.15
5	Foot path (side walk) yellow tiles coloured concrete block on cement stabilized sand base 50mm fine aggregate including any jointing work.	m ²	1205.42
6	Foot path (side walk) yellow tiles coloured concrete block on mortar bedding including any jointing work.	m ²	1497.39
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	1158.40

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Labor Cost		
No	Laborer by Trade	2016 2nd quarter Lobor hourly cost birr /hr
1	Bar bender Ass.	49.15
2	Bar bender	84.10
3	Carpenter Ass.	60.84
4	Carpenter	83.39
5	Chisler	58.31
6	DL	48.40
7	Electrician helper	73.48
8	Electrician	95.83
9	Forman	100.91
10	Gang chief	80.40
11	Glazer	60.74
12	Mason Ass.	57.17
13	Mason	82.89
14	Mixer opertaor	39.33
15	Painter Assistance	51.43
16	Painter	59.69
17	Plasterer Ass.	52.51
18	Plasterer	78.65
19	Plumber helper	57.60
20	Plumber	83.85
21	Tiller Ass.	66.97
22	Tiller	92.50
23	Time Keeper	58.01
24	Truck Driver	74.73
25	Equpment operator I	55.50
26	Equpment operator II	51.88
27	Equpment operatorIII	49.13
28	vibrator operator	77.83
29	L. Vehicle Driver I	60.80
30	Surveyer	63.89
31	Welder	70.79
32	Welder Ass.	50.26
33	Aluminium worker	68.28
34	Aluminium worker Ass.	51.04
35	Mud worker	50.66



L.N	Machinery cost	2016 2nd Hourly rental Cost (In birr) with fuel
1	Truck 16m3	2,287.73
2	Truck 9m3	1,495.13
3	Truck 13m3	1,915.04
4	compactor	477.25
5	Wheel Loader 200HP (1.5-2.5m3)	2,162.53
6	Dozer 300 Hp (D7R)	4,992.01
7	Dozer D7R W. Ripper	5,573.45
8	Dozer(200-250HP)	3,247.64
9	Excavater(200HP)	4,037.81
10	Excavater(200HP)WITH RIPPER	4,031.30
11	BACKHOE Excavater(120HP)	2,270.65
12	Grader(120-150hp)	3,362.56
13	Roller(8-10ton)	2,708.77
14	Water Truck 13,000lt	1,880.40
15	Air Compressor	141.73
16	Jack Hammer	190.77
17	Wagon Driller	3,894.03
18	Small Vehicle (pick up 4WD)	713.40
19	Asphalt Distributor	2,105.00
20	Stationary Heater	1,807.55
21	Power Broom	1,723.74
22	Asphalt Plant	32,041.07
23	Asphalt Paver	3,810.00
24	Pneumatic Roller	1,972.74
25	Water Tanker	5.21
26	Dump Truck 16m3	1,836.92
27	Crushing plant 75ton	7,824.35
28	Centrifugal W/Pump	230.73
29	Genrator (45kw)	678.15
30	Mobile crane	3,902.44
31	Concrete mixer (300lt)	353.58
32	Concrete Mixer Truck	2,093.39
33	Concrete Vibrator	145.00
34	Hand tamper	42.13
35	Pipe moulde	18.00
36	Painting machine	417.00
37	Hand Drill	3.82
38	Gear machine	20.00
39	Grinder	25.00
40	Cutting disc (dia. 180)	75.00
41	scaffolding	40.00
42	sledge hammer	5.00
43	Tools	2.00
44	Set of tools	10.00
45	Surveying instrument	158.11
46	Welding. Machine	62.50
47	Truck Crane Hydraulic, 20-25ton	2,873.92
48	winch 3-phase	150.00
49	winch single phase	125.00
50	Genrator 3-phase	300.00
51	Genrator single phase	120.00
52	Genrator for winch 3-phase	300.00



NO	Type of Materials	Unit	2016 2nd Q. Hourly Cost selling price (With Out VAT)
	REINFORCEMENT BAR		
1	Reinforcement Bar Grade 40 (Ethiopia): 6mm	Kg	139.13
2	Reinforcement Bar Grade 40 (Ethiopia): 8mm	Kg	98.59
3	Reinforcement Bar Grade 40 (Ethiopia): 10mm	Kg	98.58
4	Reinforcement Bar Grade 40 (Ethiopia): 12mm	Kg	98.57
5	Reinforcement Bar Grade 40 (Ethiopia): 14mm	Kg	98.60
6	Reinforcement Bar Grade 40 (Ethiopia): 16mm	Kg	98.59
7	Reinforcement Bar Grade 40 (Ethiopia): 20mm	Kg	92.67
8	Reinforcement Bar Grade 40 (Ethiopia): 24mm	Kg	98.59
9	Reinforcement Bar Grade 40 (Ethiopia): 30mm	Kg	96.60
10	Reinforcement Bar Grade 40 (Ethiopia): 32mm	Kg	96.60
11	Reinforcement Bar Grade 60 (Imported): 6mm	Kg	139.13
12	Reinforcement Bar Grade 60 (Imported): 8mm	Kg	108.26
13	Reinforcement Bar Grade 60 (Imported): 10mm	Kg	108.26
14	Reinforcement Bar Grade 60 (Imported): 12mm	Kg	108.26
15	Reinforcement Bar Grade 60 (Imported): 14mm	Kg	108.26
16	Reinforcement Bar Grade 60 (Imported): 16mm	Kg	108.26
17	Reinforcement Bar Grade 60 (Imported): 20mm	Kg	108.26
18	Reinforcement Bar Grade 60 (Imported): 24mm	Kg	108.26
19	Reinforcement Bar Grade 60 (Imported): 30mm	Kg	108.26
20	Reinforcement Bar Grade 60 (Imported): 32mm	Kg	108.26

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



NO	Type of Materials	Unit	2016 2nd Quarter selling price. (With out VAT)
1	Sand	m ³	2,640.00
2	Gravel 02	m ³	2,620.00
3	Red Ash	m ³	1,000.00
4	Stone	m ³	1,435.71
5	Brick	No	18.00
6	Selected material (ገረገጥ)		
6.1	Selected material (ገረገጥ) Upto 5km from Quarry site as long as Project Site.	m ³	468.75
6.2	Selected material (ገረገጥ) Upto 10km from Quarry site as long as Project Site.	m ³	562.50
6.3	Selected material (ገረገጥ) Upto 15km from Quarry site as long as Project Site.	m ³	687.50
6.4	Selected material (ገረገጥ) Upto 20km from Quarry site as long as Project Site.	m ³	875.00
7	Cement (PPC) (Habesha)	Qt	1,100.00
8	Cement (OPC) (Habesha)	Qt	1,300.00

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

