



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



Date 30/07/2016

Your Ref. _____

Our Ref. 21/44/64/9/የ/አ/አ/1287/16

Dedicated for the betterment 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

ለንፋስ ስልክ ላፍቶ ክፍለ ከተማ ጽ/ቤት

ለአራዳ ክፍለ ከተማ ጽ/ቤት

ለጉሰሌ ክፍለ ከተማ ጽ/ቤት

ለአዲስ ከተማ ክፍለ ከተማ ጽ/ቤት

ለአቃቂ ቃሊቲ ክፍለ ከተማ ጽ/ቤት

ለለሚ ኩራ ክፍለ ከተማ ጽ/ቤት

ለቤቶች ልማት ኮርፖሬሽን

ለቤቶች ልማትና አስተዳደር ቢሮ

ለውሃና ፍሳሽ አገልግሎት

ለመንገዶች ባለሥልጣን

ለመሬት ልማትና አስተዳደር ቢሮ

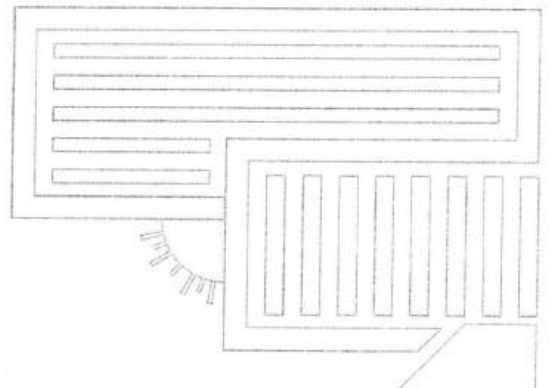
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ለከተማ ውበትና አረንጓዴ ልማት ቢሮ

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 30/07/2016

Your Ref. _____

Our Ref. 2016/ሀ/ዲ/ፍ/ግ/አ/ፍ/ፈ/28/16

ጉዳዩ:- የ2016 በጀት ዓመት 3ኛ ሩብ ዓመት የኮንስትራክሽን

ሥራዎች የቀጥተኛ ዋጋ (Direct Cost) ጥናት ላይ ማስተካከያ የተደረገበት
የሥራ ዝርዝር መላክን ይመለከታል

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

በዚህ መሰረት በያዝነው በጀት ዓመት 3ኛ ሩብ ዓመት በቢሮው አማካኝነት ተዘጋጅቶ የጸደቀውን የግንባታ ሥራዎች የቀጥተኛ ዋጋ (Direct Cost) ከዚህ ቀጥሎ በተገለጸው በቢሮ ድረ ገጽ መጠቀም የምትችሉ መሆኑን እንገልጽለን፡፡

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

ከሠላምታ ጋር

ኤሪያ ሁሴን ጽቃዬ
ምክትል ቢሮ ኃላፊ
የኮንስትራክሽን ኢንጅነርነት
አማካኝ ዘርፍ

ግልበጽ

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

ዲ/ግ/ቢ



Dedicated for the betterment of our city



በአዲስ አበባ ከተማ አስተዳደር የዲዛይንና ግንባታ ሥራዎች ቢሮ

City Government of Addis Ababa Design &
Construction Works Bureau



ለከተማዳችን መሻሻል እንተረጋግጥ

Dedicated for the betterment of our city

ለከተማዳችን መሻሻል እንተረጋግጥ

የ2016 ዓ.ም የ3ኛ ሩብ ዓመት የግንባታ ስራዎች ቀጥተኛ ዋጋ (DIRECT COST) ጥናት



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+251 111 54 19 66



14659



@AddisCityCon



@AddisCity



Addis Ababa Design and
Construction Works Bureau

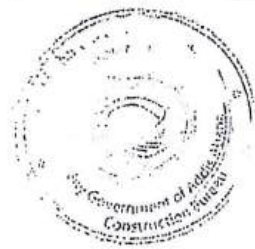


addisdesignandconstruction@gmail .c

መግቢያ፡-

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

ሆኖም ለተለያዩ የገንባታ ስራዎች እንደፕሮጀክቱ ስፋት፣ የተጻፉ ስራዎች 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 እንዲፈጸም ተደርጎአል።



1. ተዘዋዋሪ ዋጋ /ወጪ/ (O)

ተዘዋዋሪ ወጪ እንደ የጽ/ቤት ኪራይ፣ የጽ/ቤት ዕቃ ዕልቀት፣ የሠራተኞች ደመወዝ፣ የፖስታ መላላኪያ፣ የመብራት፣ የስልክ፣ የውሃ፣ የውሰ አበል፣ ወዘተ የመሳሰሉትን ወጪዎች ለመሸፈን የሚጠጣ 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፡- እንርሱም 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።

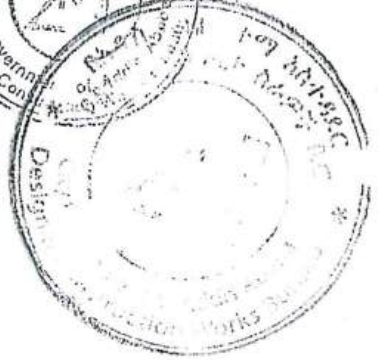
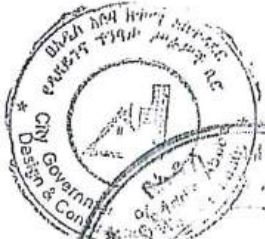
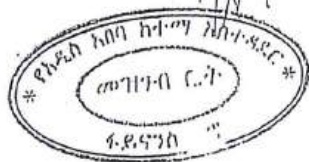
ጥልቅ የሆነ ሥራ ለመስራት አባሪ የተደረገውን የተዛማጅ ወጪዎችን ገርዝሮ መጠቀም ይቻላል።

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 3rd 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	71.18
1.1.2	Demolishing the existing CIS wall	m ²	14.25
1.1.3	Demolishing of wooden wall	m ²	81.81
1.1.4	Demolishing of gypsum wall	m ²	40.91
1.1.5	Demolishing the CIS roof	m ²	22.80
1.1.6	Demolishing of 7x5 cm zigba purline	ml	11.40
1.1.7	Demolishing of eucalyptus upper & lower chords	ml	32.39
1.1.8	Dimolish RHS purline	ml	17.79
1.1.9	Dimolishing the RHS truss.	ml	45.22
1.1.10	Desmantling Gutter	ml	15.43
1.1.11	Desmantling down pipe	ml	28.90
1.1.12	Demolishing the chipwood ceiling	m ²	49.64
1.1.13	Demolishing the tember ceiling	m ²	68.51
1.1.14	Demolishing the abujudid ceiling	m ²	17.13
1.1.15	Dismantle the metal doors from the wall.	m ²	84.44
1.1.16	Dismantle the metal windows from the wall.	m ²	76.00
1.1.17	Desmantling fascia board	ml	20.97
1.1.18	Desmantling ridge & copping	ml	30.86
1.1.19	Demolishing the PVC floor tile	m ²	21.33
1.1.20	Demolishing kitchen sink	pcs	30.44
1.1.21	Demolishing toilet WC, HW, turkish seat	pcs	91.32
1.1.22	Desmantling of wooden door & window	m ²	65.70
1.2	Demolishing Work of different structures N.B. price include clearing the working area & dispose debri as indicated the supervisor		
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	4.95
1.2.14	Demolishing the ceramic wall tile	m ²	62.65
1.2.15	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	70.48
	(From 1st -3rd floor)		
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	6.46
1.2.23	Demolishing the ceramic wall tile	m ²	84.16
1.2.24	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	94.68
	(From 4th -7th floor)		
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	9.47
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.



Checked Approved by: Hirut A.

ITEM NO	DESCRIPTION	UNIT	2016 3rd 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	m ²	159.20
1.2.40	Steel Structure	pcs	9.61
1.2.41	Demolishing the ceramic wall tile	kg	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	m ²	183.40
1.2.49	Steel Structure	pcs	11.12
1.2.50	Demolishing the ceramic wall tile	kg	148.69
1.2.51	Demolishing the ceramic floor tile (6 & 8 mm thick)	m ²	167.28
2	Excavation and earth work /የአፈር ቁፋሮ /		
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.



Checked Approved by: Hirut A.

ITEM NO	DESCRIPTION	UNIT	2016 3rd 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	612.46
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	206.66
3.7.4	Cart away surplus excavated materials to 10km	m ³	239.45
3.7.5	Cart away surplus excavated materials to 15km	m ³	314.32
3.7.6	Cart away surplus excavated materials to 20km	m ³	399.18
3.7.6	25cm. thick basaltic hard core. (basaltic stone) (Manualy)	m ²	620.58
3.7.7	Supply and Spread Red Ash.	m ³	1,746.39

Prepared by Gezahegn G.



Checked Approved by: Hirut A.

ITEM NO	DESCRIPTION	UNIT	2016 3rd Quarter (Only Direct cost)
4	CONCRETE WORK		
	SUB STRUCTURE		
a	C-7 Lean Concrete (Hand mix) (C-7)	m ²	353.89
b	C-5 Lean Concrete (Hand mix) (C-5)	m ²	339.88
c	C-15 10cm thick mass concrete pavement cost include hard core & 7cm selected material.	m ²	1,742.19
d	Mortar production (1:3)	m ³	8,044.34
e	Light Weight Concrete 1:2:5	m ³	7,257.68
f	10cm Thick C-15 mass Concrete	m ²	821.45
g	Semi elastic cementations or equivalent water proofing	m ²	675.00
h	4mm thick approved quality water proof membrane	m ²	1,210.70
i	10mm thick stayroam expansion joint between ground floor slab & beam.	ml	47.78
j	20mm thick stayroam 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	8,598.51
4.1.2	C-15 Concrete (Mechanical Mix) 1:2:4 for Footing ,Beam and slab	m ³	8,214.51
4.1.3	C-15 Concrete (Mechanical Mix) 1:2:4 for Column ,shear wall	m ³	8,552.43
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	9,144.59
4.2.2	C-20 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	8,760.59
4.2.3	C-20 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	9,098.43
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	9,589.88
4.3.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	9,205.88
4.3.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	9,543.72
4.3.4	C-25 Concrete (Mechanical Mix) 1:2:3 for 10cm thick slab	m ²	920.59
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	10,135.88
4.4.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	9,751.88
4.4.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,089.72
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	10,301.39
4.5.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	9,917.34
4.5.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,282.13
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	10,847.74
4.6.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	10,463.74
4.6.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,828.48
	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	11,463.64
4.6.5	C-40 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall with admixture	m ³	11,781.98
	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	12,282.64
4.6.7	C-50 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall with admixture	m ³	12,600.98
	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	9,901.17
4.7.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	9,517.17
4.7.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	9,904.15
4.7.4	C-25 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	10,180.56
4.7.5	C-25 Concrete (Mechanical Mix) 1:2:3 for 15cm thick slab	m ²	1,380.88
4.7.6	C-25 Concrete (Mechanical Mix) 1:2:3 for 18cm thick slab	m ²	1,657.06
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	10,447.17
4.8.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	10,063.17
4.8.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,450.15
4.8.4	C-30 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	10,726.56
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	11,539.17
4.9.2	C-40 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	11,155.17
4.9.3	C-40 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	11,542.15
4.9.4	C-40 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	11,707.93
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	8,453.65
4.10.2	C-20 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	9,416.15
4.10.3	C-20 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	9,780.89
4.10.4	C-20 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	9,934.89

Prepared by Gezahegn G.



Checked Approved by: Hirut A.

ITEM NO	DESCRIPTION	UNIT	2016 3rd 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	8,975.37
4.11.2	C-25 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	9,917.34
4.11.3	C-25 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,282.13
4.11.4	C-25 Concrete (Mechanical Mix) 1:2:3 for Stair case	m ³	10,450.83
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	10,915.84
4.12.2	C-30 Concrete (Mechanical Mix) 1:2:3 for Beam and slab	m ³	10,508.55
4.12.3	C-30 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	10,873.29
4.12.4	C-30 Concrete (Mechanical Mix) 1:2:3 for stair cases	m ³	11,027.29
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	11,984.55
4.13.2	C-40 Concrete (Mechanical Mix) 1:2:3 for Footing ,Beam and slab	m ³	11,600.55
4.13.3	C-40 Concrete (Mechanical Mix) 1:2:3 for Column ,shear wall	m ³	11,965.29
4.13.4	C-40 Concrete (Mechanical Mix) 1:2:3 for stair cases	m ³	12,119.29
	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	13,235.17
4.14	Form work		
4.14.1	Wooden form work For Beam, Footing & Column.sub structure	m ²	695.81
4.14.2	Wooden form work For Super structure column ,Floor beam & slab.	m ²	725.03
4.14.3	18mm thick Fair Faced Form work (high quality plywood)	m ²	1,157.40
4.15	STEEL REINFORCEMENT		
4.16.1	Local Re-Bar Grade 75: Dia. 6mm (Sub structure)	kg	151.22
4.16.2	Local Re-Bar Grade 75: Dia. 8mm (Sub structure)	kg	132.40
4.16.3	Local Re-Bar Grade 75: Dia. 10mm (Sub structure)	kg	132.37
4.16.4	Local Re-Bar Grade 75: Dia. 12mm (Sub structure)	kg	127.49
4.16.5	Local Re-Bar Grade 75: Dia. 14mm (Sub structure)	kg	127.61
4.16.6	Local Re-Bar Grade 75: Dia. 16mm (Sub structure)	kg	127.59
4.16.7	Local Re-Bar Grade 75: Dia. 20mm (Sub structure)	kg	120.61
4.16.8	Local Re-Bar Grade 75: Dia. 24mm (Sub structure)	kg	127.67
4.16.2	Local Re-Bar Grade 75: Dia. 32mm (Sub structure)	kg	150.66
4.16.3	Local Re-Bar Grade 75: Dia. 6mm (Super structure)	kg	156.07
4.16.4	Local Re-Bar Grade 75: Dia. 8mm (Super structure)	kg	137.26
4.16.5	Local Re-Bar Grade 75: Dia. 10mm (Super structure)	kg	137.23
4.16.6	Local Re-Bar Grade 75: Dia. 12mm (Super structure)	kg	129.34
4.16.7	Local Re-Bar Grade 75: Dia. 14mm (Super structure)	kg	129.47
4.16.8	Local Re-Bar Grade 75: Dia. 16mm (Super structure)	kg	129.45
4.16.9	Local Re-Bar Grade 75: Dia. 20mm (Super structure)	kg	122.46
4.16.10	Local Re-Bar Grade 75: Dia. 24mm (Super structure)	kg	129.52
4.16.12	Local Re-Bar Grade 75: Dia. 32mm (Super structure)	kg	152.52
4.16.14	Imported Re-Bar Grade 60: Dia. 8mm (Sub structure)	kg	137.35
4.16.15	Imported Re-Bar Grade 60: Dia. 10mm (Sub structure)	kg	137.35
4.16.16	Imported Re-Bar Grade 60: Dia. 12mm (Sub structure)	kg	132.54
4.16.17	Imported Re-Bar Grade 60: Dia. 14mm (Sub structure)	kg	132.54
4.16.18	Imported Re-Bar Grade 60: Dia. 16mm (Sub structure)	kg	132.54
4.16.19	Imported Re-Bar Grade 60: Dia. 20mm (Sub structure)	kg	132.54
4.16.20	Imported Re-Bar Grade 60: Dia. 24mm (Sub structure)	kg	132.54
4.16.22	Imported Re-Bar Grade 60: Dia. 32mm (Sub structure)	kg	132.54
4.16.24	Imported Re-Bar Grade 60: Dia. 8mm (Super structure)	kg	142.20
4.16.25	Imported Re-Bar Grade 60: Dia. 10mm (Super structure)	kg	142.20
4.16.26	Imported Re-Bar Grade 60: Dia. 12mm (Super structure)	kg	134.39
4.16.27	Imported Re-Bar Grade 60: Dia. 14mm (Super structure)	kg	134.39
4.16.28	Imported Re-Bar Grade 60: Dia. 16mm (Super structure)	kg	134.39
4.16.29	Imported Re-Bar Grade 60: Dia. 20mm (Super structure)	kg	134.39
4.16.30	Imported Re-Bar Grade 60: Dia. 24mm (Super structure)	kg	134.39
4.16.32	Imported Re-Bar Grade 60: Dia. 32mm (Super structure)	kg	134.39
5	Masonry & block work		
5.10	40cm. thick masonry foundation (A.G.L) Cement Mortar 1:3.	m ³	4,473.30
5.20	50cm. thick masonry foundation (A.G.L) Cement Mortar 1:3.	m ³	4,413.33
5.30	60cm. thick masonry foundation (B.G.L) Cement Mortar 1:3.	m ³	4,368.74
5.40	40cm. thickOne Side Roughly Dressed Stone masonry (A.G.L) Cement Mortar 1:3.	m ³	4,829.38
5.50	50cm. thickOne Side Roughly Dressed Stone masonry (A.G.L) Cement Mortar 1:3.	m ³	4,757.04
5.60	60cm. thickOne Side Roughly Dressed Stone masonry (A.G.L) Cement Mortar 1:3.	m ³	4,704.69
5.70	50cm. thick masonry foundation (B.G.L) Cement Mortar 1:3.	m ³	4,253.84
5.80	40cm. thick masonry foundation (B.G.L) Cement Mortar 1:3.	m ³	4,215.41
5.90	400mm thick Finely dressed elevation wall Cement Mortar 1:3.	m ²	1,991.40
5.10	500mm thick Finely dressed elevation wall Cement Mortar 1:3.	m ²	2,783.40

Prepared by Gezahegn G.



Checked Approved by: Hirut A.

ITEM NO	DESCRIPTION	UNIT	2016 3rd Quarter (Only Direct cost)
5.13	10 cm. thick class-c HCB Wall Both Sides Left For Plastering.	m ²	676.92
5.14	10 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m ²	725.49
5.15	15 cm. thick class-c HCB Wall Both Sides Left For Plastering.	m ²	841.18
5.16	15 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m ²	885.99
5.17	20 cm. thick class-c HCB Wall Both Sides Left For Pointing	m ²	981.78
5.18	20 cm. thick class-c Solid CB Wall Both Sides Left For Plastering.	m ²	1,057.08
5.19	10 cm. thick class-b HCB Wall Both Sides Left For Plastering.	m ²	785.38
5.20	10 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m ²	887.01
5.21	15 cm. thick class-b HCB Wall Both Sides Left For Plastering.	m ²	971.01
5.22	15 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m ²	1,181.91
5.23	20 cm. thick class-b HCB Wall Both Sides Left For Pointing	m ²	1,307.14
5.24	20 cm. thick class-b Solid CB Wall Both Sides Left For Plastering.	m ²	1,519.43
5.25	10 cm. thick class-a HCB Wall Both Sides Left For Plastering.	m ²	993.51
5.26	10 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m ²	1,194.83
5.27	15 cm. thick class-a HCB Wall Both Sides Left For Plastering.	m ²	1,279.92
5.28	15 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m ²	1,558.29
5.29	20 cm. thick class-a HCB Wall Both Sides Left For Pointing	m ²	1,359.88
5.30	20 cm. thick class-a Solid CB Wall Both Sides Left For Plastering.	m ²	1,959.24
5.31	40 cm. thick Dressed Stone Masonry Wall one Side well dressed & the other plastered	m ²	3,509.83
5.32	250mm. thick Double Brick Wall	m ²	3,203.27
5.33	120mm. thick Single Brick Wall	m ²	1,650.20
5.35	Chika wall with all wood work /እንጨት በጭቃ ግድግዳ /	m ²	820.74
5.36	Eucalyptus wood wall with all wood work /እንጨት ግድግዳ /	m ²	531.44
5.37	2.5cm thick Timber wall with 10cm & 6cm dia. Eucalyptus and all wood work/ሳንጎታ ጣውላ ግድግዳ/	m ²	1,037.44
5.38	G32 CIS with Eucalyptus /ለአጥር የሚሆን ቆርቆሮ እንጨት ግድግዳ/	m ²	1,179.85
5.39	8mm thick Chipwood wall with Eucalyptus dia. 10cm and 5x7cm shashemene batten.	m ²	925.10
5.40	18mm thick Laminated MDF Wall with 5x7cm Shashemene batten wood work and all necessary work.	m ²	1,802.43
5.41	30x30x2mm RHS wall with 4mm clear glass.	m ²	2,788.18
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
5.44	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	3,842.83
5.45	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	3,217.83



Prepared by Gezahegn G.

Checked Approved by: Hirut A.

6	Roof work	unit	2016 3rd 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	1485.62
2	0.35 mm thick	m ²	1653.99
3	0.40 mm thick	m ²	1681.28
4	0.50 mm thick	m ²	1808.40
5	0.60 mm thick	m ²	2124.59
6	0.70 mm thick	m ²	2354.37
7	0.80 mm thick	m ²	2695.37
8	1.00 mm thick	m ²	3263.83
6.1.2	Galvanized EGA 400 roof cover		
1	0.30 mm thick	m ²	1485.62
2	0.35 mm thick	m ²	1693.27
3	0.40 mm thick	m ²	1710.11
4	0.50 mm thick	m ²	1809.63
5	0.60 mm thick	m ²	2188.10
6	0.70 mm thick	m ²	2529.30
7	0.80 mm thick	m ²	2761.59
8	1.00 mm thick	m ²	3333.99
6.1.3	Galvanized EGA 500 roof cover		
1	0.30 mm thick	m ²	1710.11
2	0.35 mm thick	m ²	1694.26
3	0.40 mm thick	m ²	1794.29
4	0.50 mm thick	m ²	1957.05
5	0.60 mm thick	m ²	2401.79
6	0.70 mm thick	m ²	2699.03
7	0.80 mm thick	m ²	3065.59
8	1.00 mm thick	m ²	3576.47
6.1.4	Galvanized EGA 600 roof cover		
1	0.30 mm thick	m ²	1710.11
2	0.35 mm thick	m ²	1712.31
3	0.40 mm thick	m ²	1794.45
4	0.50 mm thick	m ²	1957.58
5	0.60 mm thick	m ²	2412.79
6	0.70 mm thick	m ²	2714.44
7	0.80 mm thick	m ²	3085.39
8	1.00 mm thick	m ²	3598.47
6.1.5	Galvanized EGA 700 roof cover		
1	0.30 mm thick	m ²	1766.24
2	0.35 mm thick	m ²	1945.83
3	0.40 mm thick	m ²	2074.91
4	0.50 mm thick	m ²	2198.38
5	0.60 mm thick	m ²	2430.27
6	0.70 mm thick	m ²	2848.64
7	0.80 mm thick	m ²	3387.99
8	1.00 mm thick	m ²	4004.47
1	EGA 0.4mm thick (G-28) Coated Corrugated roof cover	m ²	1242.43
2	EGA 0.3mm thick (G-30) Coated Corrugated roof cover	m ²	1189.29
3	EGA 0.4mm thick (G-28) Coated Corrugated For Wall	m ²	1211.03
4	EGA 0.3mm thick (G-30) Coated Corrugated For Wall	m ²	1157.89

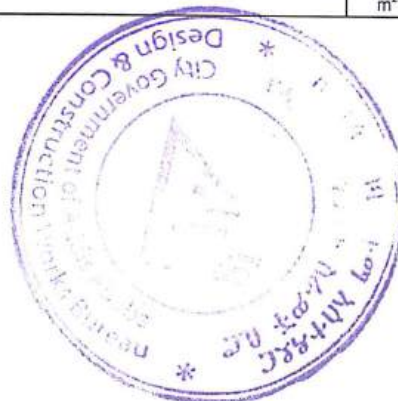


Checked by:-Gezahegn G.

Approved b:-Hirut A.

6	Roof work	unit	2016 3rd quarter (Only Direct cost)
6.2	Gutter/ጎረጎሳ/		
	Galvanized metal sheet gutter /ጎረጎሳ/		
6.2.1	G- 28 of devt. Length 33 cm	ml	420.59
6.2.2	G- 30 of devt. Length 33 cm	ml	318.59
6.2.3	G- 28 of devt. Length 40 cm	ml	575.81
6.2.4	G- 30 of devt. Length 40 cm	ml	420.59
6.2.5	G- 28 of devt. Length 50 cm	ml	575.81
6.2.6	G- 30 of devt. Length 50 cm	ml	420.59
6.2.7	G- 28 of devt. Length 67 cm	ml	744.33
6.2.8	G- 30 of devt. Length 67 cm	ml	540.33
6.2.9	G- 28 of devt. Length 100 cm	ml	993.83
6.2.10	G- 30 of devt. Length 100 cm	ml	726.59
6.3	Galvanized steel rectangular down pipe /ከሽጎ/		
6.3.1	G- 28 of devt. Length 33 cm	ml	420.07
6.3.2	G- 30 of devt. Length 33 cm	ml	318.07
6.3.3	G- 28 of devt. Length 40 cm	ml	590.12
6.3.4	G- 30 of devt. Length 40 cm	ml	424.90
6.3.5	G- 28 of devt. Length 50 cm	ml	603.05
6.3.6	G- 30 of devt. Length 50 cm	ml	437.84
6.4	PVC down pipe		
6.4.1	PVC down pipe Dia.75mm	ml	277.65
6.4.2	PVC down pipe Dia.110mm	ml	353.93
6.4.3	PVC down pipe Dia.160mm	ml	825.38
6.5	UPVC down pipe		
6.5.1	Down pipe,UPVC,Dia.110mm PN 6	ml	488.10
6.5.2	Down pipe,UPVC,Dia.200mm PN 6	ml	1418.08
6.6	Galvanized steel flashing		
6.6.1	G-30 deve.length 50cm	ml	609.21
6.6.2	G-30 deve.length 67cm	ml	710.97
6.6.3	G-30 deve.length 100cm	ml	902.71
6.6.4	G-28 deve.length 50cm	ml	768.99
6.6.5	G-28 deve.length 67cm	ml	942.47
6.6.6	G-28 deve.length 100cm	ml	1219.26
6.7	Galvanized steel copping		
6.7.1	G-28 deve.length 25cm	ml	322.94
6.7.2	G-30 deve.length 25cm	ml	247.55
6.7.3	G-28 deve.length 33cm	ml	402.77
6.7.4	G-30 deve.length 33cm	ml	300.77
6.7.5	G-28 deve.length 50cm	ml	557.98
6.7.6	G-30 deve.length 50cm	ml	402.77
6.8	Galvanized steel roof ridge		
6.8.1	G-28 deve.length 33cm	ml	384.73
6.8.2	G-30 deve.length 33cm	ml	283.16
6.8.3	G-28 deve.length 50cm	ml	540.38
6.8.4	G-30 deve.length 50cm	ml	385.16
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	568.13
6.9.5	Aspesto roof cover	m ²	482.85
6.9.6	Euro tile roof cover	m ²	415.51
6.9.7	Grass roof cover	m ²	384.17
6.9.8	2mm thick Transparent fiber Roof cover	m ²	588.89
6.9.9	Only 1mm thick Sheet metal roof cover	m ²	1167.92
6.9.10	G-32 CIS roof with Shashemene Zigba purline (4x5cm)	m ²	1151.77
6.9.11	Tsid Timber cladding 1cm for decorating roof purlin /ጥገራ ባልላ ፐርሊን ገጥ/	m ²	775.04
6.9.12	Light Weight Concrete 1:2:5 for roof	m ³	7229.78
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-Gamet (Best quality 1st class).	m ²	2182.62

Checked by:-Gezahegn G.



Approved by:-Hirut A.

7	CARPENTRY AND JOINERY		2016 3rd quarter (only Direct cost)
	Ceiling	Unit	
7.1	Abujedy ceiling with 5x4cm Shashemene batten	m ²	751.14
7.2	Fyzit ceiling 5x4cm Shashemene batten	m ²	1,155.56
7.3	Parquet ceiling 5x4cm Shashemene batten	m ²	2,515.38
7.4	Timber ceiling /ጣውላ ኮርኒህ/ 5x4cm Shashemene batten	m ²	1,209.24
7.5	Purline ceiling 5x4cm Shashemene batten	m ²	912.24
7.6	Playwood ceiling /Compersato/ 5x4cm Shashemene batten	m ²	879.24
7.7	Rush ceiling /ጸገበቆ ኮርኒህ/ Compersato 5x4cm Shashemene batten	m ²	736.24
7.8	Ceiling made with plastic sack/ጣቆሪቶ ኮርኒህ/ 5x4cm Shashemene batten	m ²	700.14
7.9	Ceiling made with sack /ጸገቶ/ 5x4cm Shashemene batten	m ²	700.14
7.10	8mm. thick chipwood Ceiling 5x4cm Shashemene batten	m ²	1,475.61
7.11	Armstrong acoustical ceiling With Suspender and all accessories	m ²	1,843.84
7.12	Mineral fiber accoustic ceiling With all accessories	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) with 5x4cm Shashemene batten & corner list	m ²	1,509.45
7.17	25 cm. Wide Kerrero Facia Board	ml	626.41
7.18	30 cm. Wide Kerrero Facia Board	ml	655.11
	Wooden truss & purlin		
7.19	10-12 cm. dia. Upper & Lower Chords Eucaliptus Wood.	ml	303.90
7.20	8-10 cm. dia. Vertical & Diagonal member Eucaliptus Wood.	ml	307.90
7.21	Diam. 6 cm thick eucalyptus purlin	ml	136.81
7.22	50 X 70mm. Tid (Shashemene) Wood Roof Purlin	ml	313.47
	Doors		
7.22	40mm thick Mahogany plywood smooth finish flush wooden door /ታምቡራታ 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 /መናኞ ፐርሊን ጣውላ ብር መስታወት የለለው /	m ²	2,977.79
7.28	3cm thick timber door /ፐርሊን ጣውላ ብር መስታወት የለለው /	m ²	2,977.79
7.29	1cm thick timber window /መናኞ ፐርሊን ጣውላ መስኮት መስታወት የለለው /	m ²	2,117.83
7.30	3cm thick timber window /ፐርሊን ጣውላ መስኮት መስታወት የለለው /	m ²	2,117.83
7.31	3cm thick timber window with glass /ፐርሊን ጣውላ መስኮት መስታወት ያለው /	m ²	4,812.94
7.32	G-32 CIS door with all wood work /የቆርቆሮ ብር /	m ²	1,433.34
7.33	G-32 CIS window with all wood work /የቆርቆሮ መስኮት /	m ²	1,433.34
7.34	Timber /Tsid/ door /የጽድ ጣውላ ብር /	m ²	1,716.94
7.35	Timber /Tsid/ window /የጽድ ጣውላ መስኮት /	m ²	1,950.76



Checked by:-Gezahegn G.

Approved by-Hirut A.

8	METAL WORK	unit	2016 3rd quarter (only Direct cost)
8.1	Fully metal doors of 38mm LTZ without grill (1.5mm thick)	m ²	5,247.86
8.2	Partially glazed metal doors of 38LTZ without grill	m ²	4,938.18
8.3	Partially glazed metal doors of 38mm LTZ with grill (1.5mm thick)	m ²	5,296.22
8.4	Metal Windows of 38LTZ without grill (1.5mm thick)	m ²	3,491.36
8.5	Metal Windows of 38LTZ (1.5mm thick) with grill	m ²	5,681.76
8.6	Double leaf metal doors of 38mmLTZ without grill (1.5mm thick)	m ²	4,645.01
8.7	Double leaf metal doors of 38mmLTZ (1.5mm thick)	m ²	5,050.94
8.8	Fully metal doors of 28mm LTZ without grill (1.2mm thick)	m ²	4,839.77
8.9	Partially glazed metal doors of 28mm LTZ without grill (1.2mm thick)	m ²	4,327.60
8.10	Partially glazed metal doors of 28mm LTZ with grill (1.2mm thick)	m ²	4,693.66
8.11	Metal Windows of 28LTZ without grill (1.2mm thick)	m ²	2,677.97
8.12	Metal Windows of 28LTZ (1.2mm thick)	m ²	3,243.42
8.13	Double leaf metal doors of 28mmLTZ without grill (1.2mm thick)	m ²	3,897.21
8.14	Double leaf metal doors of 28mmLTZ (1.2mm thick)	m ²	4,303.14
8.15	Main gate door covered with sheet metal /ዋና የገቢ በር ባለ ጊጥ/	m ²	8,718.98
8.16	Sliding door & window. Price shall include Angle iron 40X40X3mm Bottom rail & RHS 50X50X2.5mm Top rail.	m ²	2,942.52
8.17	Sheet metal partition wall (1mm thick Lamera) with RHS 30x30x2.5	m ²	2,749.62
8.18	Only 1mm thick Sheet metal (Lamera) partition wall	m ²	1,383.94
8.19	38mm LTZ limitation metal half glazed door with out grill	m ²	3,899.85
8.20	38mm LTZ limitation metal half glazed door with grill	m ²	3,391.42
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	1.6mm Aluminium partition wall with frosted clear 6mm thick glass	m ²	10,180.00
8.30	1.4mm Aluminium partition wall with 6mm thick clear glass	m ²	9,689.30
8.31	2mm Aluminium partition wall with 6mm thick glass	m ²	13,742.90
8.32	1.6mm thick Aluminium frame door with 6mm thick glass	m ²	11,742.90
8.33	1.6mm thick Aluminium frame door with 4mm thick glass	m ²	10,785.88
8.34	1.6mm thick Aluminium frame window with 4mm thick glass	m ²	10,385.88
8.35	1.6mm thick Aluminium frame door with 5mm thick glass	m ²	11,014.70
8.36	1.6mm thick Aluminium frame window with 5mm thick glass	m ²	10,614.70
8.37	2mm thick Aluminium frame door with 8mm thick glass	m ²	13,742.90
8.40	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 curls 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	Supply and fix Different size and thickness Steel Roof Truss & Purlin With RHS. price shall include three coat antirust and the necessary works and materials to full fill the job.	kg	222.85
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	210.45
8.41	dia. 16 mm. deformed bars dev. Length 400mm (J-bolt)	kg	188.93
8.42	dia. 12 mm. deformed bars dev. Length 100mm(J-bolt)	kg	127.05
8.43	dia. 14 mm. deformed bars dev. Length 160mm(J-bolt)	kg	189.05
8.44	dia. 20 mm. Anchor bolt dev. Length 400mm	kg	217.03



Checked by:-Gezahegn G.

Approved by-Hirut A.

9	FINISHING WORKS	Unit	2016, 3rd Quarter Direct Cost Only
9.1	PLASTERING		
9.1.2	3 Coats of cement plastering (1:3) (To internal wall)	m ²	508.09
9.1.3	3 Coats of cement plastering (1:3) (To external wall)	m ²	508.09
9.1.4	3 Coats of cement plastering to exposed beams and columns.	m ²	548.20
9.1.5	3 Coats of cement plastering to Slab soffit beams soffit	m ²	624.93
9.1.6	2 Coats of cement plastering internal vertical surface.	m ²	396.90
9.1.7	2 Coats of cement plastering External vertical surface.	m ²	396.90
9.1.8	cement wash vertical surface.	m ²	173.80
9.1.9	2 Coats of cement plastering Exposed column and beam	m ²	397.17
9.1.10	2 Coats of cement plastering concrete soffit	m ²	493.25
9.1.11	Final Coat of cement Rendering .	m ²	115.13
9.1.12	Final Coat of cement plastering vetical and exposed column and beam	m ²	110.31
9.1.13	Final Coat of cement plastering concrete soffit	m ²	151.45
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	129.26
9.2.2	Cement pointing to Brick.wall surface (1:3).	m ²	207.32
9.2.3	Cement pointing to stonemasonry.wall surface (1:3).	m ²	228.56
9.3	FLOORING		
9.3.1	2mm. thick PVC flooring. with Adhesive glue	m ²	940.28
9.3.2	2mm thick monolotic PVC tile. with Adhesive glue	m ²	1,197.91
9.3.3	10cmx10cmx10cm Coble Stone	m ²	1,274.47
9.3.4	3cm. Thick cement screed flooring	m ²	429.63
9.3.5	5cm. Thick cement screed flooring	m ²	625.82
9.3.6	9mm thick Ceramic floor tile with Adhesive glue (Local)	m ²	1,404.63
9.3.7	8mm thick Ceramic floor tile with Adhesive glue (Local)	m ²	1,156.28
9.3.10	8mm thick Porcelain floor tile with adhesive glue	m ²	1,912.95
9.3.12	9mm thick Porcelain floor tile with adhesive glue	m ²	2,126.49
9.3.13	10mm thick Porcelain floor tile adhesive glue	m ²	2,165.04
9.3.14	supply and apply 2mm thick Epoxy floor topping with one coat primer coating.	m ²	2,289.57
9.3.15	supply and apply 3mm thick Epoxy floor topping with one coat primer coating.	m ²	2,849.57
9.3.16	Terrazzo tile flooring size 40cm x 40cmx40mm thick for pedestrian (1:3)	m ²	2,700.61
9.3.17	Terrazzo tile flooring(1:3) 30mm thick	m ²	2,697.17
9.3.18	Terrazzo tile flooring(1:3) 20mm thick	m ²	1,864.65
9.3.20	2cm thick Granite flooring (1:3).	m ²	5,041.91
9.3.21	3cm thick Granite flooring (1:3).	m ²	5,250.01
9.3.22	2cm thick Marble flooring (1:3).	m ²	5,926.36
9.3.23	3cm thick Marble flooring (1:3).	m ²	6,553.32



Prepared by :- Betelihem A.

Checked by :- Gezahegn G.

Approved by:-Hirut Ayalew

9	FINISHING WORKS	Unit	2016, 3rd Quarter Direct Cost Only
9.4	WALL TILE CLADING		
9.4.1	6mm thick white glazed Ceramic wall tile.(Cement mortar ratio1:2).	m ²	1,210.71
9.4.2	8mm thick Ceramic wall tiles with adhesive glue (Local)	m ²	1,660.61
9.4.3	Supply and fix lay glass mosaic to external wall bedded & jointed in cement sand mortar (1:1). Price includes cement sand mortar bedding & white cement grouting.	m ²	6,223.26
9.4.4	20mm thick Marble wall Cladding (Cement mortar ratio1:2).	m ²	7,193.34
9.4.6	20mm thick Granite wall Cladding (Cement mortar ratio1:2).	m ²	6,983.38
9.4.15	2mm PVC wall tile type cladding by Animal glue	m ²	870.78
9.4.16	Aluminium cladding 4mm thick .	m ²	2,629.36
9.5	WINDOW SILL		
9.5.1	30mm. Thick & 220mm width Marble window sill (1:3) on HCB.	ml	1,613.31
9.5.2	30mm. Thick & 280mm width Marble window sill (1:3) on HCB.	ml	1,967.28
9.5.3	30mm. Thick & 300mm width Marble window sill (1:3) on HCB.	ml	2,144.27
9.5.4	30mm. Thick & 470mm width Marble window sill (1:3) on HCB.	ml	3,147.21
9.5.5	30mm. Thick & 520mm width Marble window sill (1:3) on HCB.	ml	3,265.20
9.6	THREAD		
9.6.1	MARBLE THREAD		
9.6.1.1	280mm wide & 30mm. thick marble threads.(1:3)	ml	1,993.88
9.6.1.2	300mm wide & 30mm. thick marble threads.(1:3)	ml	2,114.23
9.6.1.3	330mm wide & 30mm. thick marble threads.(1:3)	ml	2,294.76
9.6.1.4	280mm wide & 20mm. thick marble threads.(1:3)	ml	1,790.01
9.6.1.5	300mm wide & 20mm. thick marble threads.(1:3)	ml	1,895.80
9.6.1.6	330mm wide & 20mm. thick marble threads.(1:3)	ml	2,054.49
9.6.2	GRANITE THREAD		
9.6.2.1	280mm.wide & 30mm thick Granite Treads .(1:3)	ml	1,955.83
9.6.2.2	300mm.wide & 30mm thick Granite Treads .(1:3)	ml	2,076.12
9.6.2.3	330mm.wide & 30mm thick Granite Tread .(1:3)	ml	2,256.55
9.6.2.4	280mm.wide & 20mm. thick Granite Tread .(1:3)	ml	1,811.82
9.6.2.5	300mm.wide & 20mm. thick Granite Tread .(1:3)	ml	1,921.82
9.6.2.6	330mm.wide & 20mm. thick Granite Tread .(1:3)	ml	2,086.82
9.6.3	TERRAZZO THREAD		
9.6.3.1	280mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	856.26
9.6.3.2	300mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	897.14
9.6.3.3	340mm.wide & 30mm. thick Terrazo threads.(1:3)	ml	958.46
9.6.3.4	280mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	470.21
9.6.3.5	300mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	483.52
9.6.3.6	330mm.wide & 20mm. thick Terrazo threads.(1:3)	ml	503.47
9.7	RISER		
9.7.1	MARBLE RISER		
9.7.1.1	130mm wide & 20mm. thick marble riser. (1:3).	ml	871.41
9.7.1.2	150mm wide & 20mm. thick marble riser. (1:3).	ml	980.31
9.7.2	GRANITE RISER		
9.7.2.1	130mm wide & 20mm. thick Granite riser .(1:3)	ml	1,019.32
9.7.2.2	150mm wide & 20mm. thick Granite riser .(1:3)	ml	1,134.32
9.7.3	TERRAZZO RISER		
9.7.3.1	130mm wide & 30mm. Thick Terrazo riser. (1:3).	ml	436.08
9.7.3.2	130mm wide & 20mm. Thick Terrazo riser. (1:3).	ml	254.85
9.7.3.3	150mm wide & 20mm. Thick Terrazo riser. (1:3).	ml	276.05



Prepared by :- Betelihem A.

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Checked by :- Gezahegn G.

Gezahegn

Approved by:- Hirut Ayalew

Hirut

9	FINISHING WORKS	Unit	2016, 3rd Quarter Direct Cost Only
9.8	Threshold		
9.8.1	Marble threshold		
9.8.1.1	20mm. Thick & 200mm wide Marble threshold.(1:3)	ml	1,278.97
9.8.1.2	20mm. thick & 250mm wide Marble threshold.(1:3)	ml	1,581.29
9.8.2	Granite threshold		
9.8.2.1	20mm. thick & 200mm wide Granite threshold.(1:3)	ml	1,289.29
9.8.2.2	20mm. thick & 250mm wide Granite threshold.(1:3)	ml	1,533.91
9.8.3	Terrazo threshold		
9.8.3.1	20mm. thick & 200mm w.Terrazo threshold. (1:3).	ml	326.91
9.8.3.2	20mm. thick & 250mm w. terrazo threshold.(1:3)	ml	425.21
9.9	Skirting		
9.9.1	10cm. high PVC skirting 2mm thick	ml	159.47
9.9.2	20mm. thick terrazo skirting.	ml	145.54
9.9.5	10cm high 10mm thick Porcelain skirting	ml	270.95
9.9.7	100mm. high wooden skirting. (Local wood)	ml	194.60
9.9.8	10cm high 2cm thick granite skirting	ml	682.53
9.9.10	20mm Thick, 10cm high Marble skirting	ml	539.90
9.10	Copping		
	Marble copping		
9.10.1	300mm wide & 30mm. thick marble copping.(1:3)	ml	2,089.23
9.10.2	450mm wide & 30mm. thick marble copping.(1:3)	ml	2,991.87
9.10.3	300mm wide & 20mm. thick marble copping.(1:3)	ml	1,870.80
9.10.4	450mm wide & 20mm. thick marble copping.(1:3)	ml	2,664.23
9.11	Terrazzo copping		
9.11.1	300mm wide & 30mm. thick terrazzo copping.(1:3)	ml	926.01
9.11.2	450mm wide & 30mm. thick terrazzo copping.(1:3)	ml	1,247.20
9.11.3	300mm wide & 20mm. thick terrazzo copping.(1:3)	ml	495.90
9.11.4	450mm wide & 20mm. thick terrazzo copping.(1:3)	ml	602.04
Ceramic flooring With Cement sand mortar			
1.00	10mm thick Ceramic floor with cement sand mortar (Local)	m ²	1,063.15
2.00	8mm thick Ceramic floor tile with cement sand mortar (Local)	m ²	974.46
Poriceling flooring with cement sand mortar			
3.00	8mm thick Porcelain floor tile with cement sand mortar (Local)	m ²	1,616.92
4.00	9mm thick Porcelain floor tile with cement sand mortar (Local)	m ²	1,835.37
5.00	10mm thick Porcelain floor tile with cement sand mortar (Local)	m ²	1,879.16



Prepared by :- Betelihem A.

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Gezahegn

Approved by: Hirut Ayalew

Hirut

ITEM	DESCRIPTION	UNIT	2016.E.C 3RD QUARTER (ONLY DIRECT COST)
10.0	PAINTING		
10.1	SUPER PLASTIC PAINT		
10.1.1	Three coats of plastic paint to wall. Internal	m ²	113.81
10.1.2	Three coats of plastic paint to wall. External	m ²	117.01
10.1.3	Three coats of plastic paint to tyrolean & rendered wall. External	m ²	131.59
10.1.4	Three coats of plastic paint to Exposed column and beam	m ²	120.08
10.1.5	Three coats of plastic paint to chipwood ceiling.	m ²	121.41
10.1.6	Three coats of plastic paint to Plastered ceiling.	m ²	134.32
10.1.7	Three coats of plastic paint to fyizit ceiling.	m ²	118.39
10.1.8	Three coats of plastic paint to abujedid ceiling.	m ²	116.74
10.2	OIL (SYNTHETIC) PAINT		
10.2.1	Three coats of Oil (synthetic) paint to wall. Internal	m ²	181.01
10.2.2	Three coats of Oil (synthetic) paint to wall. External	m ²	182.84
10.2.3	Three coats of Oil (synthetic) paint to Exposed column and beam	m ²	182.84
10.2.4	Three coats of synthetic paint to plastered soffit surface.	m ²	199.62
10.2.5	One coats of antirust two coats of synthetic enamel paint to ribbed sheet soffit	m ²	177.73
10.2.6	One coats of antirust two coats of synthetic enamel paint to metal surface	m ²	158.82
10.2.7	Three coats of varnish paint to wooden vertical surface	m ²	188.71
10.2.8	Three coats of varnish paint to wooden soffit	m ²	207.62
10.2.9	Two coats of Mica paint to internal plastered surface	m ²	169.74
10.2.10	Two coats of Mica paint to external plastered surface	m ²	177.62
10.2.11	Two coats of special aluminum paint to metal vertical surface.	m ²	204.57
10.2.12	Two coats of special antirust paint to GCIS & EGA roof cover	m ²	113.55
10.3	QUARTZ PAINT		
10.3.1	Quartz paint to Plastered surface	m ²	
10.3.2	Mineral paint (marma coat and cera coat)	m ²	94.29
10.3.3	Lime paint /የፊት ቀለም የተቀጠ/	m ²	81.27
10.3.4	Supply and apply GRANITE PAINTING On external plastered wall surface. Price includes final coat of gypsum, primer painting, three coat of varnish and all the nessarry works.	m ²	652.85
10.3.5	Prepare the surface and apply Contextra (Texura Sparol) paint to plastered HCB wall surface. Price shall include premium acrylic wall putty, two coats of wall primer, two coats of perfix acrylic emulsion color by the enginers approval, two coats of clear weather guard and product must be browed from ISO 9001,14001 and 45001 certified company and it shall be confirmed by the Engineer.	m ²	709.57
10.4	JOTUN PAINTING		
	Pure water based paints that can be applicable on Concrete, blockwork,plastered/rendered surfaces, cement board with alkali resistant primers. VOC content shall be as per ISO 11890-1/2. Final finish shall be matte finish with color subjected to Architect's approval. Full technical datasheet and quality assurance documents shall be submitted along with material submittal and work methodologies. Sample paints on rendered wall to be presented for Designer's and Consultant's approval.		
10.4.1	Apply three coats of plastic emulsion paint to the internal HCB wall.(Type: Jotun or equivalent)	m ²	306.13
10.4.2	Apply three coats of plastic emulsion paint to gypsum board partition wall.(Type: Jotun or equivalent)	m ²	306.13
10.4.3	Ditto to plastered concrete slab soffits.(Type: Jotun or equivalent)	m ²	320.045
10.4.4	Provide syntnetic paint to walls of wet areas.	m ²	303.347
10.4.5	Apply three coats of plastic emulsion paint to ceiling on wet areas.(Type: Jotun or equivalent)	m ²	333.96
10.4.6	Provide three coats of plastic emulsion paint to suspended gypsum ceiling (Type: Jotun or equivalent)	m ²	347.875

Prepared by:- Henok Abebe



Checked by:- Gezahegn Getachew



Approved by:- Hirut Ayalew




10.5	GLAZING		
10.5.1	Supply and fix 3mm clear glass.	m ²	1,201.61
10.5.2	Supply and fix 4mm clear glass.	m ²	1,536.39
10.5.3	Supply and fix 5mm clear glass.	m ²	1,766.54
10.5.4	Supply and fix 6mm clear glass.	m ²	2,494.74
10.5.5	Supply and fix 4mm Figured glass.	m ²	1,775.13
10.5.6	Supply and fix 5mm Figured glass.	m ²	1,918.61
10.5.7	Supply and fix 6mm Figured glass.	m ²	2,062.08
10.5.8	Supply and fix 3mm Frosted glass.	m ²	1,966.43
10.5.9	Supply and fix 4mm Frosted glass.	m ²	1,966.43
10.5.10	Supply and fix 5mm Frosted glass.	m ²	2,062.08
10.5.11	Supply and fix 6mm Frosted glass.	m ²	2,253.39
10.5.12	Supply and fix 4mm Tinted glass.	m ²	1,488.17
10.5.13	Supply and fix 5mm Tinted glass.	m ²	1,679.47
10.5.14	Supply and fix 6mm Tinted glass.	m ²	2,349.04
10.5.15	Supply and fix 4mm Reflected glass.	m ²	1,583.82
10.5.16	Supply and fix 5mm Reflected glass.	m ²	1,966.43
10.5.17	Supply and fix 6mm Reflected glass.	m ²	2,253.39
10.5.18	Supply and fix 6mm Laminated or security glass	m ²	2,540.34
10.5.19	Supply and fix 5mm Wired glass	m ²	2,062.08
10.5.20	Supply and fix 10mm Clear frosted tempered glass.	m ²	9,809.91



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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		
	1 pcs main 50A, MCB, 3Phase, 10kA, coupled with contactor of 50A/3ph which remains closed at power cutoff		
	10 pcs 25A, MCB, 3Phase, 10kA,		
	4 pcs 25A, MCB, 3Phase, 10kA, coupled with contactor of 25A/3ph which remains closed at power cutoff		
	1 pcs 10A, MCB, 1Phase, 6kA,		
	7 pcs 6A, MCB, 1Phase, 6kA, (for contactor coil)		
	1Pc programable time switch coupled with contactor of 10A/1p		
	1Pc surge arrestor of 40KA		
	3 pcs of Ameter 0-500A		
	3 pcs of current meter 500A		



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Checked by:- Gezahegn Getachew

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	1pc of voltmeter with selector switch (0-500V)		
	25% reserve pitch.	PCS	334,309.60
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		



Prepared by :- Henok Abebe

Checked by :- Gezahegn Getachew

Approved by :- Hirut Ayalew

	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		
	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 pcs 16A, 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.		



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	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		
	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		



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	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
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		

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	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
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



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11.2	Light point		
11.2.1	Conductor (2x2.5mm ²)		
	PVC condute 16mm		
	Junction Box		
	Connector	PCS	2,402.02
11.2.2	Conductor (3x2.5mm ²)		
	PVC condute 16mm		
	Junction Box		
	Connector	PCS	3,048.82
11.2.3	Conductor (2x2.5mm ²)		
	PVC condute 16mm		
	Junction Box		
	Connector		
	1.inch steel pipe	PCS	4,488.59
11.2.4	Conductor (3x4mm ²)		
	PVC condute 50mm		
	Junction Box		
	Connector	PCS	3,217.41
11.2.5	cable (5x4mm ²)		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	6,754.52
11.2.6	cable (5x2.5mm ²)		
	PVC condute 20mm		
	Junction Box		
	Connector	PCS	4,793.16
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 condute 25mm		
	Junction Box		
	Connector	PCS	7,128.26
11.4.2	Conductor (3x2.5mm ²)		
	PVC condute 16mm		
	Junction Box		
	Connector	PCS	2,818.44
11.4.3	Conductor (3x2.5mm ²)		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	3,095.00
11.4.4	Conductor (3x4mm ²)		
	PVC condute 25mm		
	Junction Box		
	Connector	PCS	5,150.24
11.4.5	Conductor (5x2.5mm ²)		
	Conduit (25mm)		
	Junction Box		
	Connector	PCS	4,649.70

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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 sheathed 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 Socket 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
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/INIDIRECT 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-E1 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

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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+1XHIE 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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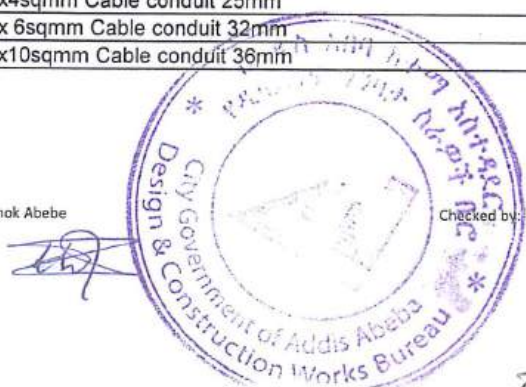
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11.4	12.Low voltage system earthing		
11.43.1	Low voltage system earthing consisting of 1x16mm ² bare copper conductor (6m) and 2400x16mm copper bond earthing rod inside manhole including all connecting accessories.	PCS	1,068.84
11.43.2	(1*10mm ²) 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 (POWER CABLE 0.6/1KV)		
11.45.1	100x130 CABLE TRENCH	ml	7,357.96
11.45.2	3x70/35+1x35sq.mm	ml	4,947.11
11.45.3	3x50/25+1x25sq.mm	ml	4,839.85
11.45.4	3x25/16+1x16sq.mm	ml	2,433.61
11.45.5	2x2.5sqmm	ml	349.84
11.45.6	2x2.5sqmm Cable conduit 16mm	ml	385.27
11.45.7	3x4 sq.mm	ml	539.41
11.45.8	3x6sq.mm	ml	728.61
11.45.9	3x10sq.mm	ml	976.96
11.45.10	3x4sqmm Cable conduit 25mm	ml	601.33
11.45.11	3x6sqmm Cable conduit 32mm	ml	821.04
11.45.12	3x10sqmm Cable conduit 36mm	ml	1,101.91
11.45.13	5x4sq.mm	ml	605.26
11.45.14	5x6sq.mm	ml	1,000.59
11.45.15	5x10sq.mm	ml	1,337.48
11.45.16	5x16sqmm Cable	ml	1,934.93
11.45.17	5x4sqmm Cable conduit 25mm	ml	666.22
11.45.18	5x 6sqmm Cable conduit 32mm	ml	1,011.30
11.45.19	5x10sqmm Cable conduit 36mm	ml	1,467.84

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11.45.20	5x16sqmm Cable conduit 50mm	ml	2,364.56
11.45.21	3x25/16+1x16 from MLPP- STA to LPP-N-0-85-86 conduit 50mm	ml	2,086.95
11.45.22	3x25/16	ml	2,033.42
11.45.23	3x35/16	ml	2,718.81
11.45.24	3x95/50	ml	8,866.15
11.45.25	3x240/120	ml	15,193.04
11.45.26	3x25/16+1x16 from MLPP- STA to LPP-N-0-85-86	ml	2,085.46
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	5,098.50
11.45.29	3x120/70+1x70 from CMDB toSDP1	ml	8,935.69
11.45.30	3x150/70+1x70 from CMDB toSDP1	ml	11,730.32
11.45.31	3x185/95+1x95 from MLPP- STA to LPP-W-0-57-58	ml	12,724.82
11.45.32	3x300/150+1x150 from MLPP- STA to LPP-W-0-57-58	ml	23,042.21
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	469.41
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



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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	979.59
12.4.2	Toilet paper holder economy version	PCS	929.59
12.4.3	40 x 50 cm glass mirror	PCS	2,079.09
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 medium quality Towel Hanger made of chrome plated copper alloys, single tubular, surface mounted, bar length of 600mm near hand wash basin complete with fastening screws and other accessories.	PCS	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 medium 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 basins	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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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	26,146.89
12.10.6	80lt Water heater (Ariston)	PCS	33,972.98
12.10.7	100lt Water heater (Ariston)	PCS	40,929.50
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	1,854.59
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






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	HDPE Pipe (PN 16)		
12.15.1	1/2" HDP Pipe	ml	618.17
12.15.2	3/4" HDP Pipe	ml	671.13
12.15.3	1" HDP Pipe	ml	698.00
12.15.4	1 1/4" HDP Pipe	ml	739.03
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	2,243.25
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	3,147.67
12.16.4	250 mm. dia. HDPE Pipe (PN16)	ml	3,080.65
12.16.5	315 mm. dia. HDPE Pipe (PN16)	ml	4,159.68
12.16.6	355 mm. dia. HDPE Pipe (PN16)	ml	4,503.45
12.16.7	400 mm. dia. HDPE Pipe (PN16)	ml	4,864.89
12.16.8	455 mm. dia. HDPE Pipe (PN16)	ml	5,335.88
12.2	HDPE Pipe (PN 10)		
12.17.1	1 1/4" HDP Pipe	ml	665.90
12.17.2	1 1/2" HDP Pipe	ml	711.67
12.17.3	2" HDP Pipe	ml	749.50
12.17.4	2 1/2" HDP Pipe	ml	836.72
12.17.5	3" HDP Pipe	ml	925.22
12.17.6	3.5" HDP Pipe	ml	1,078.28
12.17.7	4" HDP Pipe	ml	1,258.35
12.17.8	5" HDP Pipe	ml	1,397.06
12.2	HDPE Pipe (PN 10)		
12.18.1	160 mm. dia. HDPE Pipe (PN10)	ml	1,556.94
12.18.2	200 mm. dia. HDPE Pipe (PN10)	ml	2,102.13
12.18.3	225 mm. dia. HDPE Pipe (PN10)	ml	2,514.43
12.18.4	250 mm. dia. HDPE Pipe (PN10)	ml	2,970.31
12.18.5	315 mm. dia. HDPE Pipe (PN10)	ml	4,318.78
12.18.6	355 mm. dia. HDPE Pipe (PN10)	ml	5,318.96
12.18.7	400 mm. dia. HDPE Pipe (PN10)	ml	6,587.67
12.18.8	455 mm. dia. HDPE Pipe (PN10)	ml	8,134.60
12.18.9	Service Valve 1/ 2"	PCS	379.66
12.18.10	Service Valve 3/ 4"	PCS	431.95



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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	1,183.20
12.3	Concrete Drain cover		
12.33.1	Concrete Drain cover 100x30x20cm C-25	ml	2,465.00
12.33.2	Concrete Drain cover 90x30x20cm C-25	ml	2,232.08
12.3	Water tank		
12.34.5	Fiber glass water tank 500 lt capacity	No.	11,262.69
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.	75,610.73
12.34.10	Fiber glass water tank 15000 lt capacity	No.	132,132.47
12.34.11	Fiber glass water tank 20000 lt capacity	No.	158,219.43
12.34.12	Fiber glass water tank 25000 lt capacity	No.	175,610.73
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



Prepared by :- Henok Abebe

Checked by:- Gezahegn Getachew

Approved by:- Hirut Ayalew

ROAD WORK MAIN ITEMS

ITEM NO	DESCRIPTION	UNIT	2016 3RD QUARTER DIRECT COST (WITHOUT OVERHEAD & PROFIT)
1	Capping layer under the sub base layer(Granular) compacted to thickness of 200mm up to 10km distance.	m ³	993.98
2	Gravel sub base compacted to 96% AACRA test S-11 Density (Compacted layer of maximum 150mm) up to 10km	m ³	1598.42
3	Base course compacted to 96% AACRA test S-11 Density (Compacted layer of maximum 150mm) up to 10km	m ³	1750.48



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Checked by:- Gezehegn Getachew

Approved by:-Hirut Ayalew

ITEM.NO.	DESCRIPTION	UNIT	2016 3RD 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	1245.58
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	1680.10
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	1664.50
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	1415.12
5	Foot path (side walk) yellow tiles coloured concrete block on cement stabilized sand base 50mm fine aggregate including any jointing work.	m ²	1309.95
6	Foot path (side walk) yellow tiles coloured concrete block on mortar bedding including any jointing work.	m ²	1623.05
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	1260.07



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Approved by:- Hirut Ayalew

Labor Cost		
No	Laborer by Trade	2016 3rd 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	Equipment operator I	55.50
26	Equipment operator II	51.88
27	Equipment 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



I.N	Machinery cost	2016 3rd 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 wiench 3-phase	300.00

NO	Type of Materials	Unit	2016 3rd Quarter selling price. (With out VAT)
1	Sand	m ³	2,312.50
2	Gravel 02	m ³	2,187.50
3	Red Ash	m ³	875.00
4	Stone	m ³	1,250.00
5	Brick	No	19.00
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



NO	Type of Materials	Unit	2016 3rd Q. Hourly Cost selling price
REINFORCEMENT BAR			
1	Local Re-Bar Grade 75 (Ethiopia): 6mm	Kg	121.74
2	Local Re-Bar Grade 75 (Ethiopia): 8mm	Kg	103.46
3	Local Re-Bar Grade 75 (Ethiopia): 10mm	Kg	103.43
4	Local Re-Bar Grade 75 (Ethiopia): 12mm	Kg	103.37
5	Local Re-Bar Grade 75 (Ethiopia): 14mm	Kg	103.49
6	Local Re-Bar Grade 75 (Ethiopia): 16mm	Kg	103.46
7	Local Re-Bar Grade 75 (Ethiopia): 20mm	Kg	96.69
8	Local Re-Bar Grade 75 (Ethiopia): 24mm	Kg	103.53
9	Local Re-Bar Grade 75 (Ethiopia): 30mm	Kg	96.60
10	Local Re-Bar Grade 75 (Ethiopia): 32mm	Kg	125.87
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

