

LOCATION	MarkaTown	GRANT NO	BAI115
DATE	June 2019		
PROJECT	Construction/Rehabilitation of 21 October School in Marka Town		

Form of Bid/Foomka Qandaraaska

To,
The Bid Committee / Gudiga Qandaraaska

- Having visited the above project site and examined the required bidding documents for the above mentioned works, we offer to execute, complete and remedy any defects to the works therein for the sum of
(Insert amount in figures)_____
(Insert amount in words)_____

Kaddib marka aan booqanay goobta mashruuca kor ku xusan oo aan iska fiirin ay qoralka qandaraaska ee shaqooyinka kor ku qoran waxaan balan qaadeynaa in aan qabano shaqada wixii cillad ah oo shaqada ku timaadana aan bixin ayno lacag dhan (lacagta oo tiro ah)_____ (lacagta oo qoraal ah) _____

- We undertake, if our bid is accepted, to start the works within_____Calendar days from the date of signing the contract and complete and deliver the works in accordance with the contract within_____Calendar months calculated from the date of starting the works.

Haddii codsigeenna la ogolaado waxaan hawsha ku billabeynaa mudo..... maalmood ah, laga billabo marka aan qandaraaska saxiixno sida heshiiska ku cad ayaan hawsha u dhaqan gelin aynaa mudo..... billood ah laga bilaabo taariikhda ay shaqada billaabato.

- We understand and we accept that the Committee is not bound to choose the lowest price or any bid that may be received and that any or all bids may be rejected without assigning any reason for such rejection.

Waan fahamsan nahay oo ogol nahay in guddiga uu ku qasbaneyn in uu doorto qiimaha ugu yar ama in uu diidi karo codisyada soo gaara iyo in uu diidi karo qeyb ama guud ahaa codisyada sabab la'aan.

- We agree to abide by this Bid for a period of 60 days from the date fixed for receipt of the same

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Waxaan ogol nahay in aann qandaraaskaan ku qasbanaano muddo 60 maalmood ah laga billaabo taariikhda ku cad rasiidka qabashada.

5. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Ilaa iyo goorta laga sameeynaayo heshiis oo lagu fulin aanyo qandaraaskaan, qoraaladaada oo aad noo soo gudbisey ayaa ahaando heshiiska naga dhexeeya.

Dated thisDay of20.....

Taariikhdamaalinta20.....

Signature.....in the capacity of.....

Saxiixa.....

Duly authorized to sign bids on behalf of

Qofkaan oo awood u leh in uu u saxiixo heshiiska shirkadda ama shaqsiyada

(Name of Tenderer).....

(magaca qandaraaslaha)

(Address of Tenderer).....

Cinwaanka

Name of Witness.....

Magaca marqaatiga

Signature

Saxiixa

Address

Cinwaanka.

04a

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Appendix to Form of Bid / Foomka Tixraaca

<i>Payment number</i>	<i>Calculation</i>	<i>Cheque Amount(USD)</i>
1	25% upon 30% completion of construction	
2	35% upon 70% completion of construction	
3	30% upon 100% completion of construction	
4	10% retention after works	
	<i>Total</i>	

Signature of

Bidder.....

Saxiixa qandaraaslaha.....

Date.....

Taariikhda.....

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Instructions to Bidders / Tusmooyinka

- 1. Scope of Bid / Baaxada Qandaraaska**
 IOM-SSI represented by the Bid Committee wishes to receive Bids for the Construction of the works described in the Bidding documents. The successful bidder is expected to complete the works within the time stated in the Appendix to Form of Bid.

 IOM oo ay matalaayaan guddiga qandaraaska waxuu raadin aanyaa in ay helaan qandaraasleyaal ka shaqeeyo shaqo dhismo sida ku qeexan qoraallada qandaraaska. Qoka qandaraaska ku guuleysta waxaa laga rabaa in uu ku dhammeeyo hawsha waqtiga ku cad heshiiska.
- 2. Source of Funds / Sanduuqa Deeqda**
 The Works are carried out under the SSI (Dalbile) program financed USAID

 Shaqooyinka waxaa lagu qabanaayaa Programka SSI (Dalbile) oo maalgelin ayso USAID
- 3. Eligible Bidders / Qandaraasleyaasha la ogol yahay**
 The main criteria for admission to the tender are as follows: / Qodobbada ugu waaweyn oo heshiiska lagu ogolaanayo waa kuwa soo socda:
 - a) Certificate of registration – a copy to be attached to the bid documents / Shahaadada is diwaan galinta – coobi waa in lagu soo
 - b) Good track-record and references from previous clients / Howl qabad hore oo wanaagsan iyo caddeymo tixraac - Meelaha aad shaqooyiin horey ugu soo qabatay.
- 4. One Bid per Bidder / Hal Arji qandaraas kasta**
 A firm shall submit only one bid in the same bidding process, either individually as a bidder or as a partner in a joint venture. No firm can be a subcontractor while submitting a bid individually or as a partner of a joint venture in the same bidding process. A bidder who submits or participates in more than one bid will cause all the proposals in which the bidder has participated to be disqualified.

 Shirkad walba hal codsi ayey u soo gudbin kartaa markii heshiis la soo naadiyo, shaqsi ahaan ama shirkad ahaan. Shirkad ma noqon karto in ay heshiis hoosaad la gasho mid kale shaqsi ahaan ama si shaqo qaybsi ah isla heshiis kaan. Qandaraasle oo hal mar ka badan isla qandaraaskaan soo

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codsado waa laga saaraayaa tartanka.

5. Cost of Bidding / Qarashka Qandaraaska

The bidder shall bear all costs associated with the preparation and submission of its Bid, IOM and the Bid Committee will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process

Tartamaha wixii qarash oo ku baxa diyaarinta iyo soo gudbinta codsiga, IOM iyo Guddiga Qandaraaska mas'uul kama aha haddii uu helo qandaraaska iyo haddi kaleba.

6. Site Visit / Booqashada goobta

The bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.

Tartamaha waxaa lagula talin aanyaa in uu soo arko goobta shaqada iyo agagaarkeeda si uu xogta uu u baahan yahay oo dhan u helo si uu codsiga uu ku raadin aanyo heshiiska shaqada si fiican u diyaarsado. Qarashka uu ku aadaayo goobta shaqada waa mas'uuliyadiisa.

7. Language of Bid / Luqada Qandaraaska

The Language of Bid shall be in English

Luqadda lagu soo qoraayo heshiiska waa in ay ahaataa af Ingiriis.

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**8. Documents
Comprising the
Bid /
Dukumeentiga
Qandaraaska**

The Bidder shall fill all the information requested in the Bidding Documents.
The documents comprising the bid are:-

Tartamaha waxaa laga rabaa in uu soo buuxiyo shuruudaha qoraalka naadada qandaraaska.

Qoraallada looga baahan yahay si uu uga qayb galo naadada qandaraaska waa:

- a) Duly completed and signed Form of Bid /
Foomka naadada oo buuxsan oo saxiixan.
- b) Appendix to Form of Bid /
Foomka tixraaca naadada /
- c) Qualification Summary /
Sharuudaha oo kooban
- d) Program of Work (work
plan) Barnaamika
shaqada
- e) Certificate of Pre-tender Site Visit
Caddeyn in uu soo arkay goobta shaqada.
- f) Bills of Quantities

**9. Bid Prices /
Qiimaha Beeca**

The Contract shall be for the whole Works computed based on the unit rates and prices in the Bill of Quantities submitted by the bidder. The bidder shall fill in prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the bidder will not be paid for when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.

Heshiiska qandaraaska wuxuu noqonaayaa shaqada oo dhan qiimaha ay ku qabsameyso halkii shaqo ee uu ku soo gudbiyay waraaqda qaan sheegadka. Qandaraaslaha waa in uu buuxiyaa qiimeynta qarashka hawsha sida ku cad waraaqda qaan sheegatada. Qalab oo aan qiimeyn lahayn ma la bixin doono lacagtooda waxaana loo qaadanaayaa in ay qarashkooda ay ka mid yihiin qalabyada kale oo qiimeynta ku jira.

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10. Currency of the Bid and Payments / Lacagta Qandaraaska iyo lacag bixinta

The currency of the Bid and payment for works executed shall be in United States Dollars (USD)

Qiimeynta iyo lacagta bixinta waxaa ay noqon doontaa doolarka Mareykanka.

11. Filling and Signing of Bid / Buuxinta iyo Saxiixa Araajida

The bidder shall fill all the information requested in the bid documents. If additional pages are required, the same can be inserted and paged accordingly. All the information shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the bidder. All pages of the bid where entries or amendments have been made shall be initialed by the person or persons signing the bid.

Tartamaha waa in uu soo buuxiyaa xogta looga baahan yahay dhamaan. Haddii loo baahdo baalal kale oo dheeraad ah waa lagu dari karaa qoraalka. Nuqulka waa in la teebgareeyaa ama uu u qornaado si fasiix ah waana in uu saxiixaa shaqsiga ama ashqaasta u amran in ay u saxiixaan tartamaha. Dhamaan bogagga qoraalka tartanka oo isbadel leysla garto lagu sameeyo waxaa ansaxin aanyo saxiixa shaqsiga ama ashqaasta dukumentiga tartanka saxiixay.

The bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the bid.

Qandaraask malagu sameyn karo isbadel, wax ka bixin, ama ku daris haddii ay saxitaankaas uu ku imaanin heshiis ay sameeyeen shaqsiga ama

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ashqaasta saxiixay heshiiska.

12. Submission of Bids / Gudbinta Qandaraaska

The filled Bid documents should be sealed in an envelope and deposited to the location designated in Invitation to Bid before the expiry of the deadline for submission of Bids. The envelope shall indicate the name of the Project and the time and date for opening of the Bid. No Bid shall be received after the deadline for submission of Bids

Dukumeentiga tartanka oo dhameystiran waa in lagu xiraa baqshad lana dhigaa meesha loogu talagalay in la dhigo codsiyada inta aan la gaarin taariikhda kama danbeysta. Bashqadda waa in lagu soo qoro magaca mashruuca iyo waqtiga uu furmay tartanka. Wax codsi ah lama qabanaayo marka la dhaafo taariikhda xiritaanka.

13. Bid Validity / Mudada Qandaraaska

The Bid shall remain valid for a period of 60days from the date of submission and the bidder cannot withdraw his Bid after submission.

Qandaraasyada waxaa ay jiraayaan muddo 60 maalmood ah laga billaabo waqtiga la soo gudbiyey, qandaraaslaha ma la noqon karo codsigiisa kaddib marka uu soo gudbiyo.

14. Bid Opening / Furitaanka Qandaraasyada

Opening of the Bids shall be presided over by the members of the Bid Committee.

Furitaanka araajida waxaa isla ogaan doono xubno ka tirsan guddiga qandaraaska.

The Bids will be opened in the presence of bidders' designated representatives who choose to attend, at the time, date, and location stipulated in the Invitation to Bid. The bidders' representatives who are present shall sign a register evidencing their attendance.

Qoraallada qandaraaska waxaa la furaayaa iyadoo shaqsiyaad matalaayo qandaraasleyaasha goobjoog yihiin, waqtiga, taariikhda iyo meesha ku qoran qoraalka qandaraaska. Matalayaasha tartamayaasha waxa ay saxiixaayaan rejiistar caddeynaayo in ay goob joog ahaayeen.

The name of bidder, amount in words and amount figures for each bid is to be read out and recorded together with other pertinent information as will be determined by the Bid Committee

Magaca tartamaha, qiimaha qoraal ahaan iyo qiimaha tiro ahaan oo codsi kasta iyo xog kasta meesha ayaa lagu aqrin aanyaa waana la diwaangelin

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aanyaa sida ay u go'aamiyaan guddiga qandaraaska.

15. Process to Be Confidential / Xafiddida Nidaamka

Information relating to the examination, clarification, evaluation, and comparison of bids, and recommendations for the award of a contract, shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful bidder has been announced. Any effort by a bidder to influence the Bid Committee's processing of bids or award decisions may result in the rejection of the bidder's bid.

Wixii xog ah oo quseeya baarista, cadeynta, qiimeynta, iyo is barbardhigidda codsiyada iyo tallo bixinta ku saabsan gudoonsiinta heshiiska shaqada cidna ma loo sheegi doono oo aan ka mid aheyn xubnaha xulka ilaa lagaga dhawaaqaayo qofkii ku guuleystay tartanka. Isku day kasta uu tartamaha isku dayo in uu guddiga tartanka la galo heshiis hoosaad waxaa ay sababeysaa in codsiyiisa la diido.

16. Clarification of Bids and Contacting the Employer / Cadeynta iyo la Xiriirida shaqo bixiyaha

To assist in the examination, evaluation, and comparison of bids, the Bid Committee may, at its discretion, ask any bidder for clarification of its bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing, but no change in the price or substance of the bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Bid Committee in the evaluation of the bids

Si ay fikir fiican uga helaan, u qiimeeyaan oo ay isku barbardhigaan codsiyada guddiga qandaraaska waxaa ey weydiin karaan caddeymo quseeya codsiyiisa iyo fasiraad qiimaha. Weydiinta caddeynta waxaa lagu sameynaayaa qoraal laakiin wax is badel ah qiimaha ama nuxurka codsiga lama weydiin doono, waxaa kaliya oo la ogol yahay saxitaan qalad sida xisaabta loo dajiyay haddii uu dhacay oo ay arkeen guddiga tartanka Markey ka baaraan degaayeen.

17. Evaluation of Bids / Qiimeynta Qandaraaska

The Bid Committee will check the tenders to ensure that they contain no amendment to the terms or any other arithmetic errors.

Guddiga tartanka waxa ay hubin aanyaan in tartamayaasha codsigooda uu ku duwaneyn qaabka loo rabay iyo wax qalad oo xisaab in aysan jirin.

Technical and Financial evaluation: The offers will first be evaluated on technical specifications, the delivery time frame and installation and experience merits. The company obtains the highest points will be selected to implement the project.

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Qiimeynta teknikada ah: codsiyada marka hore waxaa lagu qiimeynaayaa si teknikaal ah. Qiimeynta teknikaalka waxa ay baareysaa kartida shirkada iyadoo loo tixraacayo qoraallada teknikada ah uu soo gudbiyo. Dhibcaha ugu badan waxaa lagu siin aanyaa sida naqshadda hoose ku cad.

Selection Criteria for the service provider/contractor

	Selection Criteria	Points
1.	Price evaluation	20 points
2.	Work schedule / work plan	20 points
3.	Technical specification:- company profile, financial capacity, human resources, list of plant and machineries and tools	20 points
4.	The similar experience in last 3 years including ongoing works	20 points
5.	Location of Contractor (registration certificates)	10 points
6.	List of Local Laborers to be deployed	10 points
Total		100 points

NB:

Bidders that score below 60 pts on technical will technically disqualified and shall not be evaluated for financial.

Contractors with two ongoing construction shall not be considered for the work.

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**18. Award /
Gudoonsiin
ta**

The Bid Committee will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest Evaluated Bid. IOM shall then notify the successful bidder in writing that his Bid has been accepted before the expiry of the period of Bid validity. The Letter of Acceptance sent to the Contractor shall state the sum payable to the Contractor for execution, completion and maintenance of Works as per the Bid.

Guddiga tartanka wuxuu gudoonsiin aan tartamaha nuxurka qoraalkiisa uu yahay mid ka turjimaaya dukumeentiga tartanka oo helo qiimeynta ugu hooseysa. IOM waxa ay markaas u soo bandhigeysaa tartamaha guuleysta iyadoo qoraal ugu soo gudbinaysa inta ay dhammaanin muddada tartanka uu wali jiro. Warqadda ogolaanshaha oo loo diraayo qandaraaslaha waxa ay qeexaysaa qiimaha la siin aanyo qandaraaslaha sida uu u fuliyo, dhammeystiro shaqada sida ku cad tartanka qoraalkiisa.

IOM shall then send the Contract Agreement to be signed by the selected Contractor. The Contractor should return the signed Contract Agreement within seven days of receiving the Contract.

IOM waxaa ay ka ddib u soo direysaa heshiiska si uu u saxiixo. Qandaraaslaha waa in uu soo celiyo heshiiska oo saxiixan muddo toddoba maalmood gudahooda marka uu helo warqadaha.

IOM shall notify the other bidders in writing that their offers were unsuccessful IOM waxa ay ogeysiin u direysaa tartamayaasha kale in codsigooda uu Guuleysa waayay.

**19. Transportati
on Of
materials to
the site**

Due to security concerns and risk associated with any transportations in Somalia, bidders shall source all equipment, supplies and materials required for the implementation of the project from Local Market. However, selected/successful bidder shall understand that any transportation of any materials or supplies that need to be sourced from outside the district MUST be coordinated with IOM-SSI. IOM-SSI upon receiving all the necessary information from the contractor side shall facilitate and coordinate the necessary Security Escorts. However selected bidder shall arrange their own trucks or vehicles and bear any other associated costs such as labors, loading, offloading, etc. Selected bidder shall also make a timely submission of their transportation plan to make the necessary arrangements ahead making sure it goes well in conformity with the submitted work schedule and program.

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Maaddaama ay walaac dhinaca amniga ah oo khatarta la xiriirta isticmaalka wadooying marka lasafrinayo qalab/agabka dhismaha, waxaa lagacodsanayaa dhamaan shirkadaha/qandaraaslaha shaqadan dalbanaya inay qalabkooda ka iibsadaan suuqa degmada. Hasayeeshee, qandaraaslaha /Shirkadaha ku guuleysta qandaraaska waa inay ogaataa hadii loo baahdo in laga soo iibiyo qalab/agabka lagu hergilinaayo mashruuca degmada, waa inay lasocodsiiyaan Shirkada IOM-Dalbile. Shirkada IOM-Dalbile markay ka hesho qandaraaslaha macluuumad dhameystiran, waxaa lagudboon iney qabanqaabiso ilaalo kufilan sidii loogu safrin lahaa ilaa degmada. Si kastaba ha ahaatee qandaraaslaha waa inuu bixiyaa qarashka gaadiidka iyo qarashyada kale sida xamaaliga oo kale iyo wixii lamid ah. Qandaraaslaha kuguuleysta waa inuu IOM lawadaagaa qorshaha dhinaca safrinta agabka, si waafaqsa qorshaha iyo barnaamijka guud ee hirgelinta mashruuca.

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Qualification Summary / Sharuudaha oo Kooban

1. Company Information / Macluumaadka Shirkada

Name of company Magaca shirkada	
Physical Address Cinwaanka	
Town/City Magaalada	
Telephone Teleefoon	
Fax/email Fax	
Legal status (copy of certificate of incorporation) Sharciga shirkada	
Managing Director Maareeyaha guud	
Basic Activities Shaqooyinka	1
	2
	3
Gross Profit (last 3 years) Faa'iidada (3 sanno ugu danbeysey)	Year 1
	Year 2
	Year 3

(Signature of Contractor)

Saxiixa Qandaraaslaha

(Date)

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2. Summarized CVs of Key Site Staff / CV-ga shaqaalaha muhiimka oo kooban

#	Summaries CV of Key Site Staff / CV-ga shaqaalaha muhiimka oo kooban
1	
2	
3	
4	
5	

(Signature of Contractor)

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3. List of Plant and Equipment / Liiska qalabka iyo aalad

	Plant/Equipment Name / Magaca Qalabka	Model/ Capacity / Nooca iyo Awooda	Year of manufacture / Sanadka la sameeye	# allocated for the project / Shaqada loo qoondeeyey	Owned/ Hired / Lahaansho/Ki reysan
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

We hereby certify that notwithstanding the list of plant detailed above, we will provide sufficient, suitable and adequate plant in good working order for the successful completion of works. / Waxaa cadeyneynaa in aan keeni doono qalab ku haboon shaqada oo shaqeynaayo si loo dhameystiro shaqada

(Signature of Contractor)

(Date)

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4. List of works for the last three years / Shaqooyinka hore ee 3 sanno ugu danbeysey

The bidder is to list in chronological order the projects undertaken in the last three years, their value and the client's name and address / Qandaraaslaha waa in uu qoraa shaqooyinka uu ka soo shaqeeyey sedexdii sanno ee ugu danbeyse sida ay isugu xigaan taariikh ahaan.

	Project Name / Magaca shaqada	Date Completed /Taariikhda dhamaatey	Contract Sum (USD) / Lacagta heshiiska	Client's Name and address / Magaca iyo cinwaanka kalyeentiga
1				
2				
3				
4				
5				
6				
TOTAL / WADAR				

(Signature of Contractor)

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5. On- going projects / Shaqooyinka hada aad ka shaqeyneyso

The bidder is to list the projects which he is currently executing, their value and the expected completion date. / Qandaraaslaha waa in uu liiska ku qoraa shaqooyinka uu hada ka shaqeynaayo, qiimahooda iyo taariikhda la filaayo in ay ku dhamaadaan.

#	Project Name / Magaca shaqada	Expected completion date / dhamaaneyso	Contract Sum (USD) / Lacagta heshiiska	Client's Name and address / Magaca iyo cinwaanka kalyeentiga
1				
2				
3				
4				
5				
6				
TOTAL /WADAR				

(Signature of Contractor)

Saxiixa Qandaraaslaha

(Date)

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6. List of Local Laborers to be deployed / liiska shaqaalaha la howl gelin doono

The bidder having worked a detailed methodology should have a clear view of the amount of labor effort required in completion of the works. It is recommended to use local labor as far as practicable in the works and additional scores will be obtained on use of local labor.

Ka dib markii qandaraaslaha uu ka shaqeeyey si faahfaahsan qaabka shaqada waa in ay si cad ugu muuqataa cadadka shaqaalaha uu u baahan yahay si uu u dhameeyo shaqada. Waxaa lagula talinnaa in uu isticmaalo shaqaalaha degaanka inta ay suurto galeyso wuxuuna ku helaayaa dhibco dheeraad isticmaalka shaqaalaha degaanka

#	Activity / Shaqada	No. of local labor to be deployed / Lambarka shaqaalaha ka hawl geli doo
1		
2		
3		
4		
5		
6		
7		
8		
9		

(Signature of Contractor)

(Date)

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7. Subcontracted Works / Heshiis hoosaad

The bidder is to list below the works which shall be subcontracted under the project. Not more than 40% of the contract is to be subcontracted / Qandaraaslaha waa in uu ku sheegaa hoos shaqooyinka uu u isticmaali doono shirkado hoos joogeyaal u ah. Ka badan 40% oo qiimaha heshiiska looma ogola in loo isticmaalo shirkado hoosaad

#	Activity / Shaqada	Value of works being subcontracted / Qiimaha shaqada la siiyey shirka hoosaad
1		
2		
3		
4		
5		
6		

(Signature of Contractor)

Saxiixa Qandaraaslaha

(Date)

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Program of Works / Barnaamijka Shaqada

The bidder shall break down his tasks and prepare a detailed resource based program of works to ensure completion within the stated time frame in the format shown below. / Qandaraaslaha waa in uu ku muujiyaa hoos sida uu diyaarinaanyo barnaamijka shaqada oo faahfaahsan sida uu ku dhameystiri doono shaqada

Note, the below is only a sample and the bidder is required to prepare his program and attach here.

#	Activity/Shaqada	Duration (Weeks)/ Mudada (isbuuc)											
		1	2	3	4	5	6	7	8	9	10	11	12
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													

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Certificate of Bidder's Visit to Site / Cadeynta booqashada goobta shaqada

This is to certify that / Tani waxaa ay cadeyneysaa in

(Name/s) / Magaca/yada _____

Being the authorized representative(s) of (Name of Bidder) / oo mas'uul ka ah qandaraaslaha

Participated in the organized visit to the works site for the above named project, held on (date) / waxaa ay ka qeyb qaateen booqashadaii goobta shaqada oo la booqdey taariikhda marka ay aheyd _____

Signed / Saxiixa _____

(Bid Committee member) / xubinta gudiga qandaraaska

(Name of Bid Committee member) / Magaca xubinta gudiga qandaraaska

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Statement of Insurance on Advance Payment / Waraaqda Ceymiska Lacag Hormariska

This is to certify that my account holder is / Tani waxaa ay cadeyneysaa in aan koonto ku leeyahay

(Name of Bank) / Magaca bangiga_____

(Address of Bank)/ Cinwaanka bangiga_____

(Account Name)_____

(Account Number) _____

(Bank Branch) _____

and it will serve me during the project execution as well as the guarantee period. This statement is to obtain advance payment security. / oo ay noqon doonto damaanad inta shaqada socot. Waraaqdan waxaa lagu weydiisan karaa lacagta hormariska

Signed (Contractor's authorized signatory) Saxiixa (Saxiixa uu ogol yahay qandaraaslaha)

Date / Taariikh _____

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Specifications – Builders Works / Shaqada Dhismaha

- 1. General / Guud ahaan**

The Contractor shall construct the building as shown on the drawings in conformity with the Specifications. The Contractor shall at all times use the best available materials and use only suitable and well established methods of construction

- 2. Cement Mortar / Qaska Sibidhka**

Cement mortar for blockwork, masonry, rendering, tiling, screeding, pitching and jointing shall consist of Ordinary Portland Cement and natural sand mixed by hand or an approved mechanical mixer in the proportions by volume of one part cement to four parts sand. The cement and sand shall first be mixed dry until the cement colour can no longer be distinguished from the sand in any part of the mass and the whole shall then be uniformly wetted by approved means while undergoing further mixing. The water content shall just be sufficient to ensure a dense mortar of still consistency and adequate workability to permit trowelling or floating into place.

Qasida Sibidhka oo loogu talogaley buluketiga, salaaxida, mutuneelaha iyo isku dhejinta waa in ahaataa Sibidhka Portland iyo caro lagu qasey gacan ama makiinad la ogolaadey oo iskugu dheelitiran hal qeyb oo shamiinto ah iyo afar qeyb oo caro ah. Shamiinta iyo carada waa in marka hore la isku qasaa biyo la'aan ilaa inta ay Sibidhka laga garan waayo carada ka dibna lagu daraa biyo iyada oo la sii wadaayo isku qasid. Cadadka biyaha waa in ay ku filnaadaa in ay Sibidhka ka dhigaan mid culus isla markaana ah mid sabeyneysa

Mortar shall be prepared and used in such quantities that no more than 20minutes shall elapse between first wetting and its completed use. Under no circumstance shall any mortar that has stiffened by commencing to set be used. Fresh mortar shall not be mixed with mortar prepared earlier and all batches shall be used entirely separately.

Sibidhka qasan waa in ay ahaataa mid ku dhamaaneysa mudo 20 daqiiqadood. Marnaba shamiinto qalashey maha in la isticmaalo. Shamiinto qasan oo cusub ma aha in lagu geeyo shamiinto qasneyd, qasitaan walba waa in si gaar ah loo isticmaalaa

Sand for cement mortar to be used for external renderings and internal plastering with lime and Portland cement shall comply with BS 119. Sand for cement mortar

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for all other purposes (plain and reinforced brickwork, block-walling, masonry etc) shall comply with BS 1200. It should be well graded siliceous sand of good, sharp, hard quality. It shall be free from lumps of stone, earth, loam, dust, slat, organic matter and any other deleterious substance.

Carada iyo Sibidhka loo isticmaalaayo salaaxida dibeda iyo malaask gudaha in ay ahaadaan kuwa leh calaamada BS119. Carada loo isticmaalaayo bulukeetiga iyo dhismooyinka kale waa in ay ku calaamadeysan yihiin BS1200. Carada waa in tayo adag lahaataa oo aan laheyn dhagax, bus qashin iyo waxyaabo dilaayo baabi'inaayo carada

- 3. Rendering / Nuuriyenta** The surface to be rendered shall be thoroughly cleaned. Concrete surfaces shall be roughened by using a wire brush after removing the formwork whilst the concrete is still green to form an adequate key.

Korka oo dhan waa in ay nadiifsanaataa. Korka ka sameysan shub waa in lagu xoqaa buraash bir ah si looga dhigo mid salaxsan isla markaasna looga qaado busta iwm, Sibidhka wali waxaa ay ahaaneysa cagaar si ay ugu sameysmato sida ku habboon.

All surfaces shall be dampened as necessary and the rendering applied immediately afterwards. The rendering shall be applied in two coats to form a final thickness of 15mm. The undercoat which has a thickness of 12mm shall be roughened to provide an adequate key for the second coat. The finishing coat shall be applied with a wood skimming float and afterwards trimmed with a feather edge rule to a true and even surface. The first coat shall be allowed to dry out for at least 24hours before the second coat is applied. The surface shall be thoroughly scoured with a hand float and any inequalities filled in.

Dhammaan qeybaha kore waa in la qooyaa oo la mariyaa nuuryada isla markiiba. Nuuryada waa in la mariyaa labo jeer si loo helo jirmi 15mm. rinjiga marinta koowaad oo jirmigeeda yahay 12mm si loo helo hab ku habboon marinta labaad. Dhammeystirkana waa in ay noqotaa mid siman oo geesahana la gu toosiyo buraash sida baal shimbireed si ay soo baxdo dul toosan oo saxan

All rendering shall be protected from the sun and rain by adequate and suitable coverings and the rendering shall be kept damp for 10 days while setting. Any cracks or parts which sound hollow when tapped or other defects in the rendering shall be cut out and re-rendered.

Dhammaan nuuriyeenta waa in laga daboolaa qoraxda iyo roobka si fiican oo ku haboon nuuryada waxaa lagu haynayaa qoyaab ilaa 10 maalmood si uu u

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sameysmo. Wixii dillac ah ama qaybo kale oo cillado kale leh waa laga saarayaa oo haddana la nuuryadeenaa mar kale

Plaster shall have an even smooth surface without waviness and surfaces shall be at right angles to each other. Jambs, Columns, beam edges etc shall be rounded as directed and shall be straight vertically and horizontally.

Salaaxa waa in uu sinnaadaa oo uu kala sarreynin ama kala buurburneyn oo dhinac walba ay ka saxsanaadaan. Jambs, Columns, beam edges etc waxa ay ahaanaayaa wareeg sida la faray waana in ay ahaadaan kuwo toosan joog ama jiif.

Galvanized wire mesh of 12mm opening used for chicken pens shall be used in strips of at least 200mm in width to cover ducts of pipe installations, conduits, chases and joints to act as a carrier of plaster. Wire mesh shall also be used at all joints between different surfaces receiving plaster e.g. concrete/blockwork.

Daboolka fiilooyinka oo 12mm opening used for chicken pens waxaa loo isticmaalayaa faliir ugu yaraan 200mm oo ballac ah si loo daboolo tubta tubooyinka lagu sameynaayo, meelaha ay maraan biyaha, kala baxyada si ay u ahaadaan kuwa la gelin karo bulukleeti ama shub. Daboolka fiilooyinka waxaa kaloo loo isticmaalaayaa kala baxyada oo dhan oo u dhexeeya qaybo kala duwan oo daboolka kore receiving plaster e.g. concrete/blockwork.

Tyrolean Finish shall consist of 1 part Portland cement (tinted as required) to 2 parts suitable sand. The dry materials shall be thoroughly mixed together on a board, and then mixed with water in the proportion of 2 parts cement and sand to approximately one part water by volume. The mixture shall then be flicked on to the surface to be treated by means of a Tyrolean machine. The finish shall be built up in three layers to a total thickness of 10mm. The work shall be done in the shade and where necessary screens shall be provided.

Dhammeystirka Tyrolean waa in uu ka koobnaado 1 qayb oo shamiinto Portland (oo rinjiyeysan sida la codsaday) ilaa 2 qaybo carro ku habboon. Qalabka qallalan waxaa lagu qasaayaa si wadajir ah, kaddibna waxaa lagu qasaayaa biyo oo u dhigma 2 qaybood oo shamiinto ah iyo carro qiyaas ahaan hal qayb oo biyo oo muggooda ah. Alaabtan oo isku qasan ayaa lagu fidinaanyaa korka si looga shaqeeyo iyadoo la isticmaalayo makiinada Tyrolean. Dhammeystirka waxaa uu noqonaayaa in uu u dhisnaado saddex dabaqadood oo isku darkooda jirmigooda yahay 10mm. shaqada waxaa lagu qabanaayaa meel har ah oo hooska loo baahan yahay laga heli karo.

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5. Blockwork Walling / Darbi dhisida

Precast concrete blocks for blockwork shall be solid blocks or hollow blocks manufactured from ordinary Portland cement and aggregates. All blocks shall be manufactured mechanically by compression and vibration. The mix used shall not be richer than one part cement to six parts of combined fine and coarse aggregates by volume. Blocks shall be dried for 24hours after which curing shall start and continue for a period of not less than 10days. The blocks shall then be carefully handled and stacked protected from rain by a cover and in such a way that air circulates around them. The blocks shall not be laid before 28days after casting.

Bulukeediyada shubka ah waa in ay ahaadaan kuwo adag ama laga sameeyay shamiinto caadi ah oo Portland ah ama kuwa la mid ah. Dhammaan Jaajuurka waxaa loo sameynaayaa si makiinadeysan oo cadaadin iyo gariir leh. Alaabta layku qasay oo laga sameynaayo Jaajuurka waa in ay ka badneyn hal qayb oo shamiinto ah oo lagu daray lix qeyb jay ah. Jaajuurka waxaa la qallajinaanyaa 24 saac kaddib lagu sameeyaa daaweyn ilaa muddo 10 maalmood ah. Ka dibna la riseeyaa si nidaamsana oo laga daboolaa roobka iyada oo hawada ku dhex wareegi karto. Bulukeetiyaasha ma aha in 28 maalmood meel yaalaan kabi marka la sameeyo.

All blockwork shall be bonded pointed and uniformly bedded in true horizontal coursed in cement mortar and built true to line and profile. Blockwork shall be carried up evenly and in regular stages and no part shall be raised more than 1m above any other part of the work at any time. All blocks shall be well soaked before use and the top of unfinished walls wetted before work re-commences. Courses shall be properly leveled and perpendicular joints, quoins, jambs and angles shall be plumbed as the work proceeds.

Dhammaan Jaajuurka waa in ay isku dhegganaadaan si simanna oo jiif ah loo dhigaa. Jaajuurka waxaa loo qaadayaa si isku mid ah oo is leh qaybna ma aha in laga sarreysiyo in ka badan 1m qaybaha kale oo shaqada. Dhammaan Jaajuurka waxaa la dhex galinaanyaa biyo inta aan la isticmaalin qaybaha kore oo darbiyada aan dhammeystirneynna waa la qoynaayaa inta ay shaqada ka billabaneyso mar kale. Is saarka waa in si ku habboon loo simmaa oo xaglaha, geesaha iyo dadabyada la saxaa inta shaqada socoto.

Blockwork which is not to be rendered shall be finished with a fair face and the blocks shall be selected for even texture and unmarked faces, regular shape and square unbroken arises. The blockwork shall be pointed as the work proceeds with a neat joint to approval. Where blockwork is to be rendered, the joint shall be raked out 12mm deep as the work proceeds to form an adequate key.

Jaajuurka aan la nuuryadeyneynin waa la dhammeystiraayaa iyagoo leh qaab

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fiican oo lagu xushaa sinaan ayna lahayn wax cillad ah, oo meelna ka jabsaneyn. Jaajuurka waa la cabbiraayaa intey shaqada socoto with neat joint to approval. Meesha Jaajuurka laga nuuryadeenayo, dhejiska waa in ay ahaataa mid gudaha kuu jirta 12mm.

Blockwork shall be bonded to concrete columns and walls by approved galvanized metal ties, 25mm wide and 3mm thick cast into the concrete and spaced at alternate courses and extending not less than 300mm into the block joints. This shall then be lapped to run throughout the length of the blockwork course.

Jaajuurka waa laysku dhajin aanyaa to concrete columns iyo darbiyo iyadoo la isticmaalaayo galvanized metal ties, 25mm ballaciisa ah iyo 3mm jirmigiisa yahay

6. Masonry Walling / Darbiga

Masonry shall be constructed from approved hard durable stone laid to bond. The stones shall be rough dressed so that the beds and sides are roughly perpendicular to the exposed face of the wall. The joints shall be 12mm thick on average and completely filled with mortar. The face of the work shall be true to profile and the joints shall be neatly pointed in mortar. Where the walls are to be rendered, the joints shall be raked out to a depth of 12mm to form a key.

Darbiga waxaa laga dhisaayaa dhagax adag oo aan hallabeynin iskuna dhagaayo oo lagu heshiiyay. Dhagaxyada waa in ay ahaadaan kuwo rough dressed si salka iyo dhinacyada ka joogsan yihiin dhinaca muuqda ee darbiga. Meesha ay isaga xidhmaayaan ama leysaga dhejinaanyo waa in ay ahaadaan 12mm jirmigeeda guud ahaan oo laga buuxiyay sibiidh qasan. Qaabka shaqada waa in ay ku saleynaataa profile meesha ay iska qabsanaayaanna waa in ay u jeedaan dhinaca mortar. Meesha darbiyada laga nuuryadeenaayo,, meesha ay isaga dhegaayaan waa in ay isugu soo ururaan baaxad 12mm

All walling of 300mm thickness or less shall be built in single thickness of blocks or stone. The stones shall be properly bonded together and in such manner that no vertical joint in any one course shall be within 125mm approximately of a similar joint in the courses immediately above or below.

Darbiyada oo dhan oo 300mm jirmigooda yahay ama ka yar waxaa loo dhisayaa

Hardcore: Hardcore shall be sound hard stone, rock or broken concrete not less than 100mm in size unless otherwise directed. Sufficient but not excessive blinding material of smaller sizes may be permitted at the discretion of the site supervisor

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Hardcore: waa in uu ahaadaa dhagax adag oo fiican, ama shub jaban oo aan ka yareyn 100mm cabbirkiisa haddii aan awaamiir kale la bixin. In ku filan laakiin aan badneyn qalabka oo cabbirkiisa yar yahay waa dhici kartaa in loo ogolaado in uu go'aan ka gaaro kormeeraha goobta.

7. Concrete Reinforcement: Works / Xoojinta: Sameynta Shubka

All reinforcement used in the works shall comply with the following specifications:

Dhammaan xoojinta shaqooyinka waa in ay ahaadaa kuwa hoos ku qoran:

At the time of fixing, all reinforcement shall be free from oil, painting, grease, dust and scale or any other coating which would destroy the bond with the concrete. The site supervisor is to approve the fixed reinforcement before commencement of concreting.

Wagtiga la hagaajin aanyo, dhammaan xoojinta waa in ay lahayn, saliid, rinji, dhiiqo, bus, ama wax kasta oo baabi'in kara isku dhegidda biraha shubka.

Kormeeraha goobta ayaa ansaxinaanyo waxyaalaha xoojinta loo isticmaalayo intaan la bilaabin hawsha..

Cover to Reinforcement: To ensure the cover to reinforcement is attained, spacer blocks shall be cast, of mix 1: 3 cement sand, and used between the reinforcement, the bottoms and sides of the formwork. Tolerance for the cover shall be kept within + or – 3mm from the specified cover.

Daboolka xoojinta: in la hubiyo xoojinta in la helo, Jaajuurka dhexyaalka ah waa in ay ahaadaan iskudar 1:3 shamiinto iyo carro oo loo isticmaalay xoojinta dhexyaalka, salka iyo dhinacyada. Adkeysiga daboolka waxaa lagu haynaayaa ilaa + ama – 3mm oo daboolka la qeexay ah.

aggregates: Isku geynta

The aggregates used for the works shall comply with BS882.

The Isku darka oo loo isticmaalaayo shaqada waa in ay waafaqsanaadaan

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BS882.

The aggregates shall be free from dust, decomposed material, clay, earthy matter, friable, thin or laminated materials. Fine aggregates shall be of approved clean river sand

The Isku darka waa in ay lahaanin boor, waxyaalo xumaaday, dhoobo, wax carro ah, friable ama laminated materials. Aggregates fiican oo la ogol yahay waxa ay noqoneysa carro wabi oo nadiif ah.

Coarse aggregates for graded concrete shall be of 20mm to 5mm nominal size while those of mass concrete shall be up to 40mm.

Isku darka shamiintada waa in ay ahaataa 20mm ilaa 5mm cabir caadi ah kuwa kale ilaa 40mm

Aggregates of rounded shape or otherwise capable of procuring a concrete of good workability with the minimum addition of water shall be preferred.

Isku darka sameyn kara shub shaqo wanaagsan waa lagu dari karo biyo yar

The combined grading of aggregates shall be a smooth curve approximately parallel to the grading envelope limits given in the below table.

Isku geynta garaadooyinka isku darida waa in ay ahaa mid leh xagal habeysan oo la siman garaadooyinka hoos ku qoran

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	Percentage by weight passing sieve / % culeys ahaan inta Gudbeysa shaqshaqa Nominal Maximum Size of Aggregate (mm) Cabirka caadiga ah		
Sieve sizes	40	20	10
1 ½"	100		
¾"	50 – 75	100	
⅜"	36 – 60	45 – 75	100
3/16"	24 - 47	30 – 48	30 – 75
No. 7	18 - 38	23 – 42	20 – 60
No. 14	12 – 30	16 – 34	16 – 46
No. 25	7 - 23	9 – 27	4 – 20
No. 52	3 – 15	2 – 12	4 – 20
No. 100	0 – 15	0 – 2	0 – 6

Water: Biyo

Water for use in concrete shall be of drinkable quality free from humus, acid, chemicals, salts or other matter that may be harmful to the concrete.

Biyaha loo isticmaalaayo concrete waa in ay yihiin biyo la cabi karo oo fiican oo aan lahayn humus, ashito, waxyaalo kiimiko ah, cusbo ama waxyaalo kale oo concrete xumeyn kara ama wax u dhimi kara.

Cement: Sibidhka

Cement shall be Ordinary Portland Cement complying with BS 12.

Sibidhka waa in ay ahaataa Portland tan caadiga ah oo leh BS 12

The cement shall be stored in a water proof shed on a raised wooden platform. The store shall be provided by the Contractor and shall be properly roofed and perfectly water tight. It shall have a dry wooden floor above ground level with an air space at least 150mm below it.

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Sibidhka waa in lagu keydiyaa meel aan biyo gaareynin oo alwaax kor u qaadan ka sameysan.

The cement shall be used, as far as possible, in the order in which it has been delivered and put into store.

Sibidhka waxaa loo isticmaalaayaa sida look ala soo hormariyey keenitaankooda

Formwork: Qaabeynta

“Forms, Formwork or shuttering” shall include all temporary moulds for forming the concrete to the required shape, together with all temporary construction such as falsework, props and struts required for the support of such moulds, together with any special lining that may be required to produce a special concrete finish.

Qaabeynta biraha waa in ay ku jiraan qaabeyn ku meel gaar ah si ay muujiyaan qaabka shubka loo rabo, iyo dhisida ku meel gaarka ah oo lagu xoojinaayo qaabeynta biraha oo la jiraan toosinta loo baahnaan karo si ay u soo baxdo shib dhameystira.

“Wrot” or “Wrought” formwork or shuttering shall mean formwork where the internal timber face in contact with the concrete is planed smooth, and the contractor is to take particular care with the surface of the shuttering, and with the floating of unshuttered surfaces, it being the intention that a very smooth face will result when the shuttering is struck.

Badalaada qaababka waa in ay ahaadaan kuwo alwaaxyada gudaha ku aadan shubka ay habaysan yihiin. Qandaraaslaha waa in uu ka taxadaraa bireynta oo dusha biraha ay ahaataa mid yeelata weji habaysan.

“Unwrot” formwork or shuttering shall mean formwork when the internal timber face in contact with the concrete is left” as sawn”.

Unwrot qaabka waa in uu ahaadaa mid alwaasyada gudaha in ku jeedaan shubka

All formwork shall be substantially and rigidly constructed of timber, steel, pre- cast concrete or other approved material and shall be true to the shape, line, level and dimensions shown on the drawings.

Qaababka waa in si xajisan oo adag looga dhisa alwaax, bir, shub la diyaariyey oo leh qaab sax ah toosnaan siman oo waafaqsan naqshada.

Timber shall be well seasoned, free from loose knots. Faces in contact with concrete shall be free from adhering grout, projecting nails, splits or other defects

that will mark the concrete surface and shall be coated with an approved type of oil

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before it is fixed in position.

Alwaaxda waa in la diyaariyaa, laga sifeeyaa meelaha jilecsan, Wajiyada alwaaxda xiriir la leh shubka waa in ay laheen koolo, musaabiir, dilaac iyo cilad kale oo calaamadeyn kara shubka waa in lagu daboolaa saliid la agolaadey inta aan la dhejin.

Immediately before concreting, the formwork shall be watered thoroughly and washed out to remove sawdust, shavings or other rubbish. Where the appearance of the concrete face is important, the position and direction of the joints shall be directed.

Dhaqsadii ka hor shubka, qaabka waa in biyo lagu dhaqaa si looga dhaqo buliyada iyo busta kale. Meesha muuqa shubka ay muhiim tahay waa in jihada iyo barta xagasha la toosiyaa.

Connections between formwork elements shall be constructed to allow for easy removal of the formwork, and shall be either nailed, screwed, bolted, clamped, braced and shall have sufficient strength to retain the correct shape and line during compaction of the concrete.

Isku xirka u dhexeeya qaababka waa in loo dhisa si oo fudud loo ala bixin karo oo la isku musbaarin, bir lagu dhejin waana in ay lahaadaan xoog adag oo isku celin kara muuqa iyo leemanka marka la cadaadinaayo shubka

Fillet strips shall be fixed in the formwork to form a 20mm x 20mm chamfer on all external corners of the concrete. The cost of the same shall not be paid separately but shall be assumed to have been included in the formwork rates.

Faliir lagu dhejiyo oola eg 20mmx20mm geesaha dibada shubka. Qarashkan ma loo bixin doono gaar laakiin uu ku jiraa qiimeynta qaab sameyska shubka

Removal of forms: Forms shall be removed in such a manner as will not injure the concrete, and no formwork shall be removed before the concrete has sufficiently set and hardened. The minimum periods between the placement and removal of formwork for the various parts of the structure is tabulated below. Compliance with these requirements shall not relieve the Contractor of his obligation to delay the removal of the forms if the concrete shall not set sufficiently.

Bixinta qaababka waa in ay ahaadaan mid aan dhaawaceyn shubka waana in la furaa inta uu shubka si adag u qalalin. Mudad ugu yare e u dhaxeysa dhejinta iyo fujinta qeybaha kala duwan hoos ayey ku qoran yihiin.

Ku dhaqanka sharuudahan ma ka saamaxeyso in uu daahiyo furitaanka hadii shubka si fiican u qalalin

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Structure /Qaabk Dhismeedka	Duration to remove form / Mudada lagu furaayo
Side beams, wall, columns	2days / Maalmood
Soffit of slabs	12days / Maalmood
Soffit of beams under 6m span	16days / Maalmood
Soffit of beams over 6m span	16days, plus 1 day per 0.6m in excess of 6m with max of 28days / 16 Maalmood oo lagu darey 1 maalin 0.6m wixii ka dheer 6m ugu badnaan 28 maalmood

The rates for formwork shall include for all timber metal moulds inclusive of all necessary supports and stagings, bolts, nuts, straps, clamps, wedges and other fittings, also all cutting and waste and the cost of all labour transport and materials in making erecting and removing the formwork and for any other work required to construct the forms to the shapes and dimensions shown on the drawings, or as directed by the site supervisor.

Qiimaha dhisida qaabka shubka waa in ay ku jiraan dhamaan alqaaxyada, biraha iyo waxa kasta oo loo isticmaalaayo sida qashin ururinta, shaqaalaha, qarashka rarka, diyaarinta iyo qaadista iyo shaqo kasta oo ka mid ah dhisida qaabka shubka oo ku cad naqshada ee uu horjoogaha tilmaamo.

Concrete mixes: Qasitaanka Shubka

In order to ensure adequate durability of the finished concrete while at the same time limiting the shrinkage characteristics, the following limits shall be observed.

Si loo habsado shub raagi kara mudo dheer oo la xadidaayo yaraansha shubka waa in cabiradaan hoos ku qoran la raacaa

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Concrete grade / Garaadad shubka	Trial Mix	Max size of Coarse aggregate	Min. cement content / Shamiinada ugu yar	Max cement content /Isku darka Sibidhka	Max. Water/Cement Ratio / Isku qaska biyaha iyo Sibidhka
10N/mm ²	1:4:8	40mm	210kg/m ³		0.6
15N/mm ²	1:3:6	40mm	252kg/m ³	356kg/m ³	0.6
20N/mm ²	1:2:4	20mm	296kg/m ³	415kg/m ³	0.55
25N/mm ²	1:1 ½: 3	20mm	341kg/m ³	475kg/m ³	0.5

Batching: Batching of the aggregates and cement shall be by weight while the water shall be proportioned by volume. Volume batching of aggregates may be used when weigh-batching is not possible, but volume batching of cement will in no case be accepted. The weight of coarse and fine aggregates in each batch shall be computed such that whole number of bags of cement is used and the use of cement from broken bags will not be permitted.

Batching: batching of aggregates iyo Sibidhka waxay ahaaneysaa mid ku saleysan miisaan biyahana waxaa lagu qiyaasaayaa mugga. Mugga batching oo aggregates waxaa loo isticmaali karaa markii miisaan-batching ay suurtageli weydo laakiin mugga batching oo Sibidhka sinnaba lama ogola. Miisaanka coarse iyo fine aggregates batch walba waxaa loo qaybaayaa sida tiro dhan oo kiishash shamiinto ah oo loo isticmaalaayo, shamiinto oo kiishkeeda dilaacsan yahay isticmaalkeeda lama ogola.

Mixing: Mixing shall be done in power-driven concrete mixers for all classes of concrete except that small batches of class 10 and class 15 may be mixed by hand with the approval of the site supervisor.

Isku darka: isku darka waxaa loo sameynaayaa mashiinnada concrete qasa noocyada concrete oo dhan haaddii laga reebo batches yaryar oo darajadooda tahay 10 iyo kuwa 15 ayaa lagu qasi karaa gacan isagoo muwaafaqo ka haysta kormeeraha goobta.

When using mechanical mixer, the dry materials shall be mixed in the mixer until a uniform colour is obtained after which the gauged quantity of water shall be gradually added. After all the water has been added, the mixer shall continue to mix for a period of not less than two minutes. Upon completion of mixing of a

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particular batch, the mixer drum shall be completely emptied before fresh batch is placed therein. If the mixer is out of operation for 20minutes, the concrete therein shall be considered defective and the Contractor shall remove and dispose of the same at his cost.

Markii la isticmaalaayo makiinada wax lagu qaso, alaabta qallalan waxaa layskula qasaayaa hal mar ilaa oo midab is leh ay wada noqdaan kaddib ayaa biyaha gauged cadad ah si tartiibtartiib ah loogu daraayaa. Markii biyaha oo

dhan lagu daro, mashiinka wax qasaayaa wuxuu qasidda wadaayaa labo daqiiqo waqti aan ka yareyn. Markii la dhammeystiro qasidda batch qaas ah, mashiinka calooshiisa (meesha alaabta laysku qasaayo ku jirto) waa la banneynaayaa kulligeed inta aan batch cusub lagu shubin. Haddii mashiinka wax qasaayo oo uu shaqeynin 20 daqiiqo, concrete wuxuu noqonaayaa mid xumaaday qandaraaslahana waa in uu ka saaraa meesha uuna tuuraa iyadoo qarashka ay dushiisa tahay.

When small quantities of concrete are to be mixed, the site supervisor may approve hand mixing. When hand mixing is employed, the cement content for all mixes shall be increased by 10% at the Contractor cost.

Markii cadad yar oo concrete la rabo in la qaso, kormeeraha goobta wuxuu u fasaxi karaa in gacan lagu qaso. Markii dad gacanta ku qaso la shaqaaleeyo, Sibidhka waxa ay ka kooban tahay oo dhan waxaa lagu daraayaa 10% qarashkana waxaa bixin aanyaa qandaraaslaha.

When hand mixing is used, the fine aggregates shall first be mixed with cement until a uniform colour is obtained before the coarse aggregates can be added after which the constituent materials are to be mixed again dry before application of water. The minimum amount of water to ensure workability of the mix is to be added during hand mixing.

Markii gacan lagu qasaayo, aggregates fiican waxaa lagu qasaayaa shamiinto ilaa midab is leh la helo inta aan coarse aggregates lagu darin kaddibna alaabaha kalena inta ay qallalan yihiin ayaa laysku qasaayaa inta aan biyo lagu darin. Cadadka ugu yare e biyo oo loo baahan yahay in uu fiicnaado alaabta isku qasan waa in lagu daraa inta gacanta lagu qasaayo.

Transport and placing: Concrete shall be transported in water-tight containers in a manner which will avoid the segregation of the constituent materials. Before placement of the concrete, the site supervisor shall approve the formwork and reinforcement. Approval of the formwork does not however release the Contractor from his obligation to provide firm formwork capable of supporting the fresh concrete without deformation or failure.

Rarka iyo meel dhigista: concrete waxaa lagu raraayaa gaadiid oo leh konteenar aan

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biyo deynin si looga hortago kala qeybis alaabta ka kooban tahay. Inta aan la dhigin concrete, kormeeraha goobta ayaa ogolaanaayo qaabka shubka iyo xoojinta. Ogolaanshaha formwork ma ka qaadeyso qandaraaslaha waajibaadkiisa ah in uu keeno formwork tayo leh oo concrete cusub adkeyn kara iyadoo aan sameyskiisa wax ka beddelmin ama xumaanin.

The time elapsing between the initial mixing of the concrete and finally placing in the works shall not exceed 30minutes when Portland Cement is used. Concrete remaining unplaced at the end of this period shall not be placed in the work, but shall be removed from the site and disposed off at the Contractor's expense.

Waqtiga u dhexeeya marka la bilaabo qasidda shubka iyo marka la dhigaayo works ma aha in ay ka badato 30 daqiiqo haddii Portland shamiinto ah la isticmaalaayo. shubka aan la meeleynin marka waqtigaan dhammaado ma la dhigaayo work, laakiin waa laga saaraayaa meesha waana la tuuraayaa iyadoo qarashka uu ahaanaayo qandaraaslaha korkiisa.

Concrete shall not be dropped through a height exceeding 1.5m and special methods shall be used for placing concrete in excess of 1.5m such as tremmie, chutes.

Shubka ma laga soo daadin karo dherer ka dheer 1.5m waana in qalab gaar u ah loo isticmaalaa marka la dhigaayo shubka dherer ka dheer 1.5m sida tuyuub

A competent still fixer shall be present on site during the placing and compaction of concrete to ensure that the reinforcement remains in place and to make any corrections before the placing and compaction of the concrete. Proper bridging arrangements for traffic over reinforcement shall be provided so that the reinforcement is not distorted, damaged or displaced.

Qof khibrad u leh waa in uu joogo goobta markii la shubaayo oo la cadaadinaayo shubka si loo hubiyo in qaabka dhismaha shubka oo u ahaado sidiisa iyo in sixid lagu sameeyo. Waa in loo sameeyaa qaabka dhismaha shubka wadooyin ay maraan shubka iayaga oo badaleen ama qaloocinyin.

Compaction: All concrete shall be compacted mechanically, except when agreed with the site supervisor that small areas may otherwise be compacted. .

Shubka waa in la isku cadaadiyaa iyada oo la isticmaalaayo mashiin, hadii kale uu ogolaado hormuudka goobta shaqada in qeybo yaryar la iskugu shubka mashiin si kale.

The concrete shall be compacted using internal poker vibrator. The vibrator shall not be attached to the reinforcement and care shall be taken to avoid contact with it.

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Shubka waa in la iskugu riixaa iyada oo la isticmaalaayo poker vibrator – ul bir ah oo gariireysa. Gariirka ma aha in lagu dhejiyo ama uu taabto xoogeynta shubka.

When internal vibrators are used, they shall be withdrawn immediately water or a thin film of mortar begins to appear on the surface of the concrete. Withdrawal shall be carried out slowly to avoid cavitations.

Marka la isticmaalo gariir laha waa in isla markiiba laga soo bixiyaa hadii biyo ama xuub qafiif ah ka soo muuqdo shubka. Soo bixinta waa in ahaataa mid tartiib ah si looga ilaaliyo duleel.

The concrete shall be worked well around the reinforcement, joints and corners of forms. / Shubka waa in uu lagu wareejiyaa si ku fillan xoogeynta, xaglaha iyo geesaha qaababka.

Curing: Curing shall commence as soon as the concrete has hardened sufficiently. All exposed concrete surfaces shall be cured for a period of seven days by covering them with a layer of sand, Hessian, canvas or other approved material kept damp. Concrete shall be protected from the sun, wind, heavy rains and flowing water for at least 3 days after placing.

Daaweynta waa in ay bilaabataa isla marka shubka uu u adkkado si fiican. Dhamaan shubka ka muuqda dusha waa in lagu daaweeyaa mudo dhan todoba maalmood daboolis lagu daboolaayo lakab caro, hessian – nooc marro adag oo baraawn ah, canvs – wax adag oo laga sameeyo tendheeyinka, ama waxyaabo kale oo loogu talogaley ka hortaga qoyaanka

10. Painting

Rinjiyeenta

Colours of Paints: The priming, undercoats and finishing coats shall each be of different tints, the printing and undercoats shall be the correct brands and tints to suit the respective finishing coats, in accordance with the manufacturer's instructions. All finishing coats shall be of the colours and types specified by Pact.

Nooca Rinjiga: Diyaarinta, marinta hoose iyo marinta ugu danbeysa noocyo kala duwan, marinta koowaad waa in ay ahaay nooca ku haboon si ay u wanaajiso marinta ugu danbeysa sida tusmada shirkada sameysey. Marinta ugu danbeysa waa in ay ahaataa nooc ay Pact amartey.

Preparation prior to painting: The Contractor shall include for the preparation of surfaces, rubbing-down between each coat, stopping, knotting and all other works necessary to obtain a first class finish. The floors and other fittings shall be covered up with dust sheets when carrying out the

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painting works. Paint splashes, spots and stains shall be removed from floors, wood work etc and the same left clean and perfect upon completion of the painting works.

Diyaarinta rinji marinta: Qandaraaslaha waa in uu diyaariyaa meelaha rijiga la marin aanyo, xoqitaanna u dhaxeysiiyaa rinji marinta si ay u soo baxdo rinji ku dhameystirin heer sare. Dhulka iyo alaabaha kale waa in lagu daboolaa marro busta marka shaqada rinjiga la sameynaayo. Firdhiska rinjiga, dhibcaha iyo wasaqda waa in laga fujiyaa dhulka, alwaaxda iwm iyo dhameystirka rinjiga in uu ahaado nadiif iyo sax.

13.Plumbing Plumbing installations shall be carried out in accordance with best modern practices. The Contractor shall submit the plumbing details to the site supervisor for approval before commencement of the plumbing works.

Sanitary Installations: All sanitary fittings, washbasins, urinals, water closets shall be of the best quality and shall be supplied complete with all flush pipes, taps, valves, siphons, brackets, waste plugs and chains

“European Type” water closets shall be of white vitreous china complying with BS1213 with “S” trap and shall include a low level white vitreous china cistern to BS1125 close mounted to the pan and incorporating a washdown flushing system with a 12.5mm low pressure ball valve. The WC shall be supplied complete with a plastic seat and cover

“Asiatic Type” squatting closets shall be of white vitreous china complying with BS121 with “S” trap incorporating a washdown flushing system with a high level white vitreous china cistern to BS1125 with a 12.5mm low pressure ball valve. The water closets shall have integral footplates and an anti-splash rim for recessed installation.

The inlet to the water closet cistern shall be fitted with a 12.5mm stop valve complying with BS1010.

Each water closet shall have a porcelain toilet paper holder fixed within the wall and adjacent to the water closet.

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Wash Basins shall be of white vitreous china complying with BS1188 and fixed to the wall by means of two steel brackets. They shall be supplied with chromium plated drains complete with rubber stopper and chromed metallic chain. Each basin shall be fitted with a 32mm diameter chromium plated siphon trap which shall be connected to the nearest floor drain, gulley trap or drainage pipe by a 50mm diameter galvanized pipe. Each basin shall be fitted complete with chromium plated tap for cold water.

14. Tiling

Glazed ceramic wall tiles shall be 150x150mm. They shall be gloss white in color and shall be of first class quality free from cracks, bending, air bubbles and scratches. Walls which are to receive the tiles shall be given the first coat of plaster before tiling commences. The tiles shall be soaked in water for at least 24 hours before being used in the works. They shall be bedded in 1:4 cement mortar rendering 10mm thick with joints truly horizontal and vertical and of uniform width approximately 2mm. After installation, joints shall be grouted with white cement mortar. All exposed tile edges shall be rounded.

PVC floor tiles shall comply with BS 3261 and shall not be less than 2.5mm thick and of an approved colour. The tiles shall be laid on a 30mm thick 1:4 cement mortar screed in accordance with the manufacturer's instructions and fixed with an approved adhesive.

Concrete floor and wall tiles shall be of the dimension, type and colour indicated on the drawings and shall comply with BS1197

15. Electrical Works

Earthing: This shall include excavation of earth pit, earth electrode (pipe/plate), earth leads up to ground level, chamber with cover, excavation refilling with charcoal and salt etc.

Cables: All cable shall be PVC insulated, sheathed end steel armoured with an outer PVC protective sheath. Cables shall have high conductivity stranded copper conductors and cores shall be colour coded as per the British Standards. All cables shall be without any kinks or visible damage.

All cables shall be properly terminated with glands, tinned copper lugs and cables identification tags and shall be properly crimped or soldered with lugs as directed. All the indoor cables shall be laid on walls, ceilings, inside shafts, with suitable supports. Distance between supports shall not be more than 500mm. Cables shall be laid indoors by using 3 mm thick M.S. spacers with G.I. saddles and screws.

Wires: All wires shall be PVC insulated single core copper or aluminium as

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specified and shall be any 660 volts grade. Wires of single strand are permissible up to 2.5 sq. mm size. Beyond this size wires with stranded conductors only should be used. All wiring termination shall be with crimped lugs except in case of termination on piano type switches and piano type sockets outlets.

Conduits buried in concrete structure shall be put in position and securely fastened to the reinforcement and approved by the site supervisor before the concrete is poured. Proper care shall be taken to ensure that the conduits are neither dislocated nor choked at the time of pouring the concrete. Suitable fish wires shall be drawn in all conduits before they are embedded.

No conduit shall be buried in concrete or plastered unless the work has been inspected and approved by the site supervisor.

Fixtures and Fittings

Fluorescent Light Fittings: All fixtures shall be complete with accessories and fixing necessary for Installation completed in all respects. Fixtures connected to emergency lighting systems shall have distinct red markings. Fixtures shall be installed at mounting heights as detailed on the drawings or instructed by the site supervisor.

Fixtures and/or fixture outlets boxes shall be provided with hangars to adequately support the weight of the fixture.

Lamp shall be supplied and installed in all lighting fixtures provided under this contract. Lamps used for temporary lighting service shall not be used in the final lamping of fixtures.

Rates quoted against light fittings shall include for the complete light fittings, control gear, bulb etc. all complete in factory wired and assembled condition. Rate shall also include for fixing arrangement for the fittings and control gear.

Fans, Regulators and Clamps: Ceiling fans including their suspension shall be equipped with secondary safety device against free fall of fans from their hooks. All ceiling fans shall be wired to ceiling roses or to special connector boxes and suspended from hooks or shackles. There shall be no joints in the suspension rod.

For concrete roofs, ceiling fans hooks shall be buried in the concrete during construction. Fan hooks made of M.S. rods of 15mm diameter shaped in 'U' form with their legs projecting horizontally on the top at least 190mm on either

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side and tied over the top reinforcement of the roof shall be laid in the concrete slabs. The suspension arrangement for the fans shall be so designed that the fans canopies shall completely hide suspension element.

Circuit Breakers: Circuit breakers shall preferably be air break horizontal type fully interlocked and meeting the requirements of BS 3659. Breakers shall be rated for a medium voltage of 240V and rated full load amperes as indicated on drawings. Breakers shall be capable of making and breaking system short circuits. Breakers shall be manually operated complete with panel operating handle, isolating plug with safety shutters, mechanical ON/OFF indicator, silver plated arcing and main contact arc chutes and tripfree operation.

Point Wiring: Point wiring shall include all works necessary for complete wiring of a switch circuit of any length from the tapping point on the distribution circuit to the following through the switch.

- a) Ceiling rose or connector (in the case of ceiling fan point).
- b) Ceiling rose (in the case of pendant except stiff pendant point).
- c) Back plate (in the case of stiff pendants and fittings with down rods)
- d) Socket and Outlets (in the case of socket outlets points)
- e) Lamp Holder (in the case of wall brackets, batten points, bulk head and similar fittings).
- f) Call Bell/ Buzzer

The following shall be deemed to be included in the point wiring.

- a) Switch.
- b) Ceiling rose or connector as required
- c) Any special and suitable M. S. box for neatly housing the connector and covering the fan hook in case of fan point.
- d) Bushed conduit or porcelain where cable pass through walls, floors etc.
- e) Earth wire from the distribution boards to all current carrying apparatus through switch boards, M. S. Boxes etc.

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f) All metal blocks, boards, covers and M. S. Boxes, sunk or surface mounted including those required for mounting fan regulators but excluding those for fixing the distribution switch boards.

g) All fixing accessories such as clips, nails, screws, phil plug, rawl plug

etc. as required.

h) Connection to ceiling rose, connector socket outlets, Lamp holders, switch, fan regulator etc.

i) Looping in the same switch board and inter connections between points on the same circuit.

System of Wiring: Power wiring shall be kept separate and distinct from lighting and fan wiring. All conductors shall run as far as possible along the walls and ceiling so as to be easily accessible and capable of being thoroughly inspected. In all types of wiring due consideration shall be given for neatness, good appearance and safety.

Rating of lamps, fans, sockets etc. : For the purposes of connected load calculations, incandescent installations for residential and non residential building shall be rated at 100 W. Table fans shall be rated at 50/60W. 5 Amp socket outlet point and 15 Amp socket outlet point shall be rated at 100W and 1000W respectively, unless the actual values of loads are known or specified.

Switch Boards: Metal clad switch gear shall be mounted on wall, columns etc. by suitable mechanical means so as to ensure firm mechanical supports. Hinged type boards shall consist of a box made of sheet metal clad, switch gear, distribution boards etc. Hinged metal boards shall consist of a box made of sheet metal of 6 SWG gauge thick and shall be provided with hinged cover to enable board to be swung open for the examination of the wiring at the back.

All wires passing through metal boards shall be bushed. No apparatus shall project beyond any edge of the panel. No fuse body shall be mounted within 25mm of any edge of the panel.

Wall chasing for conduits: The chase in the wall shall be neatly made and of ample dimensions to permit the flexing of conduit pipe in an approved manner. In case of building under construction, conduit shall be buried in the

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wall before plastering and shall be finished neatly after erection of conduit. In case of exposed brick masonry work, special care shall be taken to fix the conduit and accessories in position along with the building work. In case of new construction the scope of work under the electrical contractor shall be responsible for providing chase in the wall, fixing up the conduits and finishing of the wall complete.

Fixing of conduit in case: The conduit pipe shall be fixed by means of staples or by means of saddles not more than 600 mm apart. Fixing of standard bends or elbows shall be avoided as far as possible and all curves maintained by bending conduit pipe itself with long radius which will permit easy drawing of conductors.

Conduits buried in concrete structure shall be put in position and securely fastened to the reinforcement to the approval of the site supervisor before the concrete is poured. Proper care shall be taken to ensure that the conduits are neither dislocated nor chocked at the time of pouring the concrete. Suitable fish wires shall be drawn in all conduits before they are embedded.

No conduit shall be buried in concrete or plastered unless the work has been inspected and approved by the site supervisor.