



KENYA RURAL ROADS AUTHORITY

ADDENDUM NO. 3

UPGRADING TO BITUMEN STANDARD, REHABILITATION, RECARPETING & GRAVELLING WORKS OF VARIOUS ROADS – LOT 6

Reference is made to the Tender Notice that appeared in the MyGov Edition Star Newspaper dated 13th January 2026, the Long Advert dated 28th January 2026, Addendum No.1 dated 18th February, 2026 and Addendum No.2 dated 25th February, 2026.

Interested Applicants are requested to note the following clarifications;

1. The percentage (%) for **Variation of Price** and **Contingencies** respectively, on the Upgrading works is **5%** of **Sub-Total 1** under the **Grand Summary of the Bill of Quantities**. **ALL** interested bidders **MUST** ensure their bids conform to this requirement in the format prescribed. An extract with the prescribed format for applying Variation of Price and Contingencies respectively under the **Grand Summary of the Bills of Quantity** is attached as *Annex 1*.
2. A new Tender Document shall be re-uploaded for the following road to be accessed with effect from **16th March 2026**.

S/No.	Tender Number	Road Name
1.	RWC 890	Kieni Kiandege – Mworoga – Maraa Road (Phase II: Mworoga – Maraa)
2.	RWC 891	Upgrading to Bitumen Standard of Kilibwoni – Terige – Lessos and Terige Tuiyobei Roads
3.	RWC 883	Kambi Mwanza - River Isiukhu – Kambiri - Mukhonje - Rondo Junction
4.	RWC 871	Cherangani – Kipkeikei – Suwerwa - Kmaoi – Kapcherop – Makutano - Kaptalamwa
5.	RWC 875	Upgrading of Enenetia - Olpusimorru Road
6.	RWC 891	Upgrading of Kilibwoni – Terige – Lessos and Terige – Tuiyobei Roads
7.	RWC 921	Upgrading of Murika - Ngage- Mukothima, Turima Tweru - Nkondi - Gatunga, Gaciongo - Makutano - Ura Gate, Access To Tharaka University Roads.
8.	RWC 916	Ngong Bypass
9.	RWC 929	Suswa – Inkorionito – Nairake – Enkare Road

3. The Summary page in the Bill of Quantities for **RWC 881: Upgrading to Bitumen Standard of Kalamindi – Osani – Nyakweri Road** has been amended to include **Bill Item 17 for Concrete Works** as captured under *Annex 2*.

4. **Annex A for RWC 933: Upgrading to Bitumen Standard of Torit- Kenegut – Koitabuot – Kipsitet – Kapsorok – Sondu – Koilsir – Mindililwet – Mabasi – Machorwa – Getarwet Road** has been amended and attached under *Annex 3*.
5. That the submission date for All the tenders under LOT 6 is hereby revised from 4th March, 2026 and 5th March, 2026 to on or before 23rd March 2026 and 24th March 2026 at 11:00AM respectively. The submission location ,venue and place remain the same remains the same as per the table below;

S/No.	Region	Tender No.	Road Name	Date of Pretender Site Visit	Revised Date of Closing and Opening	Remarks
1	Wajir	RWC 859	Lensanyu – Sakuno Road	Open But Mandatory	-	Cancelled
2	Kericho	RWC 860	Ainamoi Centre - Kapsaos Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
3	Siaya	RWC 861	Boro – Hawinga - Uwaasi Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
4	Narok	RWC 862	Angata Police Post - Ngendalel	Open But Mandatory	23 rd March, 2026 at 11:00 AM	
5	Uasin Gishu	RWC 863	Arankai - Kauho - Rongai - Matahru Centre - Silaga Primary Chirchir School	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
6	Kirinyaga	RWC 864	Baricho - Njegas - Ngaru - Gakoigo - Kangaita -Kiaritha - Kerugoya	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
7	Nandi	RWC 865	Belekenya – Karlel – Kaptildil - Chepterit Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
8	Siaya	RWC 866	Bondo - Uyawi - Kibanga Liunda Beach (C843) Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
9	Busia	RWC 867	Butula - Nambale - Amukura (C825) Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
10	Nakuru	RWC 868	Chebara - Wechego (E7244) Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
11	Elgeyo Marakwet	RWC 869	Chepkorio Townshipkaplimo - Kipsaina Roads	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
12	Muranga	RWC 870	Gwa Thamaki – Maragua Ridge - Mbombo – Jct C549/B25 (Road C549) – Jct B25/ F2630 Mbombo – Mesco (Road F2630) And Jct B67/ G45821 – Samar Leisure (Road G45821); Phase 1	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
13	Elgeyo Marakwet	RWC 871	Cherangani – Kipkeikei – Suwerwa - Kmaoi – Kapcherop – Makutano - Kaptalamwa	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
14	Uasin Gishu	RWC 872	Chesta - Sintai - Kapatet Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
15	Trans Nzoia	RWC 873	County Commissioner Office - Kijana Wamalwa Referral Hospital Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	
16	Narok	RWC 874	Enaramatishoriki Bridge	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
17	Narok	RWC 875	Enenetia - Olpusimorru Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender

S/No.	Region	Tender No.	Road Name	Date of Pretender Site Visit	Revised Date of Closing and Opening	Remarks
18	Baringo	RWC 876	Esageri - Noiwet – Muserech - Emining	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
19	Muranga	RWC 877	Gatura - Ngere - Karangi	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
20	Nyandarua	RWC 878	Haraka - Kageraini - Rwanyambo - Karangatha – Kinamba Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
21	Uasin Gishu	RWC 879	Jabali - Saos	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
22	Nandi	RWC 880	Kaiboi - Chepkober	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
23	Homa Bay	RWC 881	Kalamindi – Osani – Nyakweri Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
24	Siaya	RWC 882	Kalandini – Ka Elijah – Kamnara And Abidha - Kalandini Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
25	Kakamega	RWC 883	Kambi Mwanza - River Isiukhu – Kambiri - Mukhonje - Rondo Junction - Graveling	Open But Mandatory	23 rd March, 2026 at 11:00 AM	
26	Bomet	RWC 884	Kapkaket - Kaptebeng'wet – Kapkoros - Kiplelji – Kapsimotwa – Kapkwen - Olbuiyo - Siongiroi Road Project	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
27	Uasin Gishu	RWC 885	Kaplelach - Chebarus Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
28	Bomet	RWC 886	Kaptengecha – Kaptebengwet - Kibaraa/ Ruseya – Kiptendenkimaech - Koiwa/ Kibanjalal - Ruseya/ Daraja Sita - Chebirbelek – Kibanjala - Maaset And Topland Road Access Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
29	Nandi	RWC 887	Kemeloi TTI Access Road - Kipsigak - Serem Phase2 - (Kamaindi - Aldai TTI – Kibwareng – Chepkunan - Miwani Road)	Open But Mandatory	23 rd March, 2026 at 11:00 AM	
30	Meru	RWC 888	Kiengo - Ndambiro - Mangala – Meru National Park Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
31	Uasin Gishu	RWC 889	Kapseret - Saina Estate - Lobo	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
32	Meru	RWC 890	Mworoga – Maraa - Mitunguu Phase II	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
33	Kericho	RWC 891	Kilibwoni - Terige - Lessos and Terige -Tuiyobei Roads	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
34	Trans Nzoia	RWC 892	Kimimini – Solana – Kangoti Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
35	Meru	RWC 893	Kionyo – Kanyakine - Kithino	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
36	Nandi	RWC 894	Kipkechen – Kapkemich (Serem – Kesegei) Road	Open But Mandatory	23 rd March, 2026 at 11:00 AM	Retender
37	Kiambu	RWC 895	Zambezi - Kari	Open But Mandatory	24 th March, 2026 at 11:00 AM	
38	Trans Nzoia	RWC 896	Kisawi Centre – Pango – Gituamba - Sosio Forest Station - Labot	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender

S/No.	Region	Tender No.	Road Name	Date of Pretender Site Visit	Revised Date of Closing and Opening	Remarks
39	Uasin Gishu	RWC 897	Koisagat - Kapchemagilot - Kaboggy - Mafuta - Kabeness Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
40	Bomet	RWC 898	Koiwa - Cheptalal - Sotit - Kaptebeng'wet/ Kimulot - Changoi	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
41	Nandi	RWC 899	Kolelach Bridge – Kolelach - Taunet Roads (Phase 1)	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
42	Tana River	RWC 900	Korisa - Gamba	Open But Mandatory	24 th March, 2026 at 11:00 AM	
43	Makueni	RWC 901	Kyambeke – Kikuswi – Mumbuni – Kyuasini – Ukia Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
44	Bomet	RWC 902	Kyogong – Kapsimbiri – Kiromwok – Kiptogoch – Kisyet Tea Factory Road Project: Phase I: Kisyet Tea Factory – Kipyosit Secondary – Saparet – Kiptogoch - Kiromwok Road Project	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
45	Machakos	RWC 903	Makaveti - Iiuni	Open But Mandatory	24 th March, 2026 at 11:00 AM	
46	Tharaka Nithi	RWC 904	Makutano – Katithine, Mukothima – Kirigicha – Mulika, Marimanti – Kibunga - Mukuuni Roads	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
47	Elgeyo Marakwet	RWC 905	Maroon – Wewo – Katilit – Mungwo - Chemisto - Sewes & St. Michael kakimiti - Chawis Primary – Kaptul -Lemeiywokamogo - Chepkoit Junction Roads	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
48	Bungoma	RWC 906	Masaek - KDF- Kaboriot Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
49	Narok	RWC 907	Mashangwa - Enkoiraria - Oldonyorok	Open But Mandatory	24 th March, 2026 at 11:00 AM	
50	Narok	RWC 908	Mogondo – Cheramgoi – Mogor – Soit Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
51	Kiambu	RWC 909	Mount Kenya Mwiki Bridge - Kwangethe Primary School - Mwhoko	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
52	Bungoma	RWC 910	Mufupi - Mukuyuni - Naitiri (C635) Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
53	Nandi	RWC 911	Mugundoi - Nandi Hills – Kosiage - Cheptulu Roads	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
54	Tharaka Nithi	RWC 912	Murika - Ngage- Mukothima, Turima Tweru - Nkondi - Gatunga, Gaciongo - Makutano - Ura Gate, Access To Tharaka University Roads.	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
55	Uasin Gishu	RWC 913	Ngeria Primary – Moi University - Kapkoi Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
56	Kajiado	RWC 914	Ngong - Kibiku - Kangiria	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
57	Narok	RWC 915	Olopiki Dongoe - Nyakweri	Open But Mandatory	24 th March, 2026 at 11:00 AM	
58	Kajiado	RWC 916	Ngong Bypass	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender

S/No.	Region	Tender No.	Road Name	Date of Pretender Site Visit	Revised Date of Closing and Opening	Remarks
59	Migori	RWC 917	Nyarobiro – Kombe – Masaba - Nyanchabo - Getong'anya – Ikerege - Tarang'anya Road Phase 1	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
60	Kisii	RWC 918	Nyosia – Timani – Kayati - Bobaracho Nyanguru - Nyataro Kiogoro Boronyi - Otamba Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	
61	Narok	RWC 919	Olantare - Mariwa - Ogwedhi - Kehancha	Open But Mandatory	24 th March, 2026 at 11:00 AM	
62	Bomet	RWC 920	Rehabilitation of Chebole - Siongiroi - Labotiet - Chebunyo – Dikir	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
63	Narok	RWC 921	Rehabilitation of Lolgorian - Gwitembe - Kehancha	Open But Mandatory	24 th March, 2026 at 11:00 AM	
64	Bomet	RWC 922	Rehabilitation of Soimet – Kapletundo – Mogogosiek & Kapngonken/ Teganda - Ndaraweta - Isaik - Sigorwet - Leldaret/ Cheplanket – Kapkatet Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	
65	Embu	RWC 923	Rianjeru – Rwika, Gachuriri - Kiritiri	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
66	Kericho	RWC 924	Sabunit – Kipsigori – Kimugul - Tuiyobei – Tilolwet - Kapkondor/ Furaha - Kamwingi2 - Hill Tee/ Tea Research Access Roads	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
67	Siaya	RWC 925	Sihayi – Kodongo – Kanyumba City Road/ Bar Ober & Sega – Ukwala – Aboke – Odiado Road And Sega - Jera Loop Road; Phase 1	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
68	Bungoma	RWC 926	Sikusi - Mukhweya – Lurende - Katenya Junction Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
69	Bomet	RWC 927	Silibwet - Masese – Kiptagich – Olenguruone - Mauche	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
70	Baringo	RWC 928	Solian – Lebolos – Naitili – Kiplombe - Esageri - Heavy Murram Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
71	Narok	RWC 929	Suswa – Inkorionito – Nairake - Enkare Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
72	Elgeyo Marakwet	RWC 930	Tachasis - Cheplaskei - Konyalil – Uswo & Cheplaskei - Karandili - Chebiemit	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
73	Kericho	RWC 931	Tegat– Kaplelit – Burutu – Kokwet -Toroton – Yalla – Chepkechei – Songenyet / Kichuchun – Kenyelet - Miti Mbili - Barsiele - Kimologit - Morao - Tingatela Kipsegi Roads	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
74	Elgeyo Marakwet	RWC 932	Tenden - Kibigos - Makutano	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
75	Kericho	RWC 933	Torit - Kenegut - Koitaburot – Kipsitet – Kapsorok – Sondu - Koilsir – Mindililwet – Mabasi – Machorwa - Getarwet Road	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender
76	Embu	RWC 934	Wamumu – Karaba - Machanga Phase I	Open But Mandatory	24 th March, 2026 at 11:00 AM	Retender

S/No.	Region	Tender No.	Road Name	Date of Pretender Site Visit	Revised Date of Closing and Opening	Remarks
77	Uasin Gishu	RWC 935	Ziwa - Kimurgoi - Lomoiywet - Matunda	Open But Mandatory	24 th March, 2026 at 11:00 AM	

6. Submission of Audited Accounts or equivalent acceptable to the Employer, for the last three [3] years (2022 & 2023 and 2024 or 2025 if available) to demonstrate: the current soundness of the applicant's financial position and its prospective long-term profitability, and capacity to have a cash flow amount, turnover and working capital (also attach valid license of the auditor from ICPAK), this requirement applies to all tenders under this tender notice.
7. Directors Identification Documents for the corporate Director and its directors MUST be provided to support the submitted CR12.
8. Interested Applicants are required to continually check the Authority's website: www.kerra.go.ke for any tender addendums or clarifications that may arise before submission date.
9. Bidders with enquiries are encouraged to do so vide the email address procurement@kerra.go.ke.
10. All other information pertaining to the tenders remains the same.

DIRECTOR GENERAL
KENYA RURAL ROADS AUTHORITY

ANNEX 1

(% of Variation of Price – VOP and % of Contingencies)

EXTRACT OF SUMMARY – BoQ

Item	Description	Amount
(A)	SUB-TOTAL (1)	
(B)	Add 5% Variation of Price of sub total (1)	
(C)	Add 5% Contingencies of sub total (1)	
(D)	SUB-TOTAL (2) = (A+B+C)	
(E)	Add ... 0.03% of Sub-Total 2 For Public Procurement Capacity Building Levy	
(F)	Add ...16% VAT on Sub-Total (2)	
	TOTAL (D+E+ F)	

ANNEX 2 (RWC 881: Upgrading to Bitumen Standard of Kalamindi – Osani – Nyakweri Road)

**BILLS OF QUANTITIES FOR UPGRADING TO BITUMEN STANDARD OF KALAMINDI – OSANI –
NYAKWERI ROAD
RWC 881**

GRAND SUMMARY OF BILL OF QUANTITIES

BILL ITEM	DESCRIPTION	AMOUNT(KShs)
1	Preliminaries and General Items	
4	Site Clearance and Top Soil Stripping	
5	Earth Works	
7	Excavation and Filling of Structures	
8	Culverts and Drainage Works	
9	Passage to Traffic	
12	Natural Gravel Base and Subbase	
14	Lime/Cement Improved gravel Subbase and Base	
15	Bituminous Surface Treatment and Surface Dressing	
16	Bituminous Mixes	
17	Concrete Works	
20	Road Furniture	
22	Schedule of Dayworks.	
25	HIV/AIDS, Gender & Social Issues, Local Participation	
26	Relocation of Services and Land Acquisition	
(A)	SUB-TOTAL (1)	
(B)	Add 5% Variation of Price on Sub-Total 1	
(C)	Add 5% Contingency on Sub-Total 1	
(D)	Sub-Total 2 = A + B + C	
(E)	Add 16% VAT of sub-total (2)	
(F)	Add .03% of sub total (2) For PPCBL	
	GRAND TOTAL	
TOTAL TENDER PRICE Carried forward to Form of Tender		

ANNEX 3 (Appendix A for RWC 933: Upgrading to Bitumen Standard of Torit- Kenegut – Koitaburot – Kipsitet – Kapsorok – Sondu – Koilsir – Mindililwet – Mabasi – Machorwa – Getarwet Road)

APPENDIX A					
APPENDIX TO BILL ITEM 1.05: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	1. FURNITURE				
A104/1.01	Desk 2.2x0.9 m with chair and lockup drawers	No	2		
A104/1.02	Desk chair (standard)	No	15		
A104/1.03	Stationery cupboard, 1.2 m ³ , lockable	No	2		
A104/1.04	Steel filing cabinet, 4 drawers, lockable	No	2		
A104/1.05	Steel filing cabinet, 2 drawers, lockable	No	2		
A104/1.06	Bookshelf, 3 shelves 1.2 m long (to hold box files)	No	2		
A104/1.07	Table - 6 m ²	No	2		
A104/1.08	Two Plate electric heater	No	1		
A104/1.09	Fire extinguisher, 10 litre capacity, CO2 type	No	4		
A104/1.10	Complete first aid kit	No	2		
	EQUIPMENT				
	(The following equipment shall be purpose made for use in the Engineer's laboratories and shall comply with the relevant British (BS) or American (AASHTO) Standard)				
	2. General Equipment				
A104/2.02	2.49kg. Compaction hammer, drop regulated to 304.8mm	No	2		
A104/2.03	4.535kg compaction hammer drop regulated to 457.2mm	No	2		
A104/2.04	Electric vibrating Kango Hammer fitted with steel tamper(BS 1377) with support frame	No	1		
A104/2.05	Straight edge 300 mm long with handles	No	4		
A104/2.06	Steel Tamper (BS1377) compatible with Kango hammer	No	3		
A104/2.07	Compaction mould 152.4 mm. dia x 116.43 mm complete with base plate and extension collar, 101.6 mm	No	2		
A104/2.08	Galvanized metal tray 1m x 0.5m x 75 mm deep	No	4		
A104/2.09	75mm brush	No	2		
A104/2.10	Semi-automatic balance, 25kg Capacity accurate to 1g, including weights	No	1		
A104/2.11	20mm BS Sieve, 300mm diameter	No	1		
A104/2.12	Stop Clock	No	2		
A104/2.13	Thermostatically controlled electric oven 105-1100C, capacity 0.225 m ³	No	2		
A104/2.14	As above but gas heated	No	1		
A104/2.15	Moisture content tins, 75 mm dia, Cadmium or aluminium plated	No	60		
A104/2.16	Cone penetrometer with gauge and automatically controlled test cup	No	2		
	3. Density (Sand replacement method BS 1377)				
A104/3.01	Metal containers 450mm diameter	No	2		
A104/3.02	Stainless steel tray 305mm diameter	No	2		
A104/3.03	Metal tray with 150 mm diameter hole in the centre, 300mmx300 mm square or equivalent area, 40mm deep	No	2		
A104/3.04	Metal tray with 200mm diameter hole in the centre, 500mm x 500 mm square , 50 mm deep	No	2		

APPENDIX A					
APPENDIX TO BILL ITEM 1.05: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/3.05	Steel pegs for fixing tray in position	No	15		
A104/3.06	Sand pouring cylinder, 150 mm diameter	No	2		
A104/3.07	Sand pouring cylinder, 215 mm diameter	No	2		
A104/3.08	Cold steel chisel 20mm x 300mmm	No	4		
A104/3.09	Cold steel chisel 10mm x 250mmm	No	4		
A104/3.10	1.5kg, 3.5kg hammers and 1kg rubber mallet	Set	1		
A104/3.11	Scoop for removing excavated material from hole, 250 mm long handle	No	6		
A104/3.12	100mm brush, soft	No	3		
A104/3.13	50mm brush, soft	No	3		
A104/3.14	Primus gas stove	No	1		
A104/3.15	Calibrating can 150 mm diameter x 150 mm deep	No	3		
A104/3.16	Ditto but 200 mm diameter x 250 mm deep	No	3		
	5. CBR (AASHTO T193)				
A104/5.01	CBR mould, 152.4 mm dia x 178 mm high, complete with perforated base plate and extension collar 50.8 mm high that can be fitted to either side of mould	No	50		
A104/5.02	Perforated swell plate 150 mm dia with an adjustable centre post of rust proof metal provided with a lock-nut	No	40		
A104/5.03	2.25 kg split surcharge weight	No	2		
A104/5.04	Set of annular surcharge weights	No	1		
A104/5.05	Solid base plate for CBR mould	No	2		
A104/5.06	Static compaction displacer discs 1 No x 61.4 mm, 1 No x 50.8 mm and 2 No x 38.8 mm thick with handles	set	1		
A104/5.07	Disk lifting handle	No	2		
A104/5.08	Central extruder, complete with 20kN hydraulic jack and accessories	No	1		
A104/5.09	Automatic CBR Proctor Compaction press, 50 tonnes capacity with an adjustable distance between platens of 530mm-250mm, rammer weights and automatic count selector	No	1		
A104/5.10	Set of guards for above press.	No	1		
A104/5.11	50 kN CBR Load frame complete with stabilising bar (electric and hand operated) including proving rings for 10KN, 28KN and 50KN, piston and bracket	No	1		
A104/5.12	Penetration gauge range 0 - 25mm	No	2		
A104/5.13	CBR piston including bracket	No	2		
A104/5.14	Swell measurement tripod complete with gauge calibrated in 0.01 mm divisions	No	2		
A104/5.15	Soaking tank for CBR mould sufficient for 50 moulds	No	1		
	6. Relative Density of Aggregates (BS 812)				
A104/6.01	Wire mesh basket with apertures not greater than 6.5 mm large enough to contain 2.5 kg of aggregate	No	2		

APPENDIX A					
APPENDIX TO BILL ITEM 1.05: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/6.02	A stout watertight container in which the basket can be freely suspended	No	2		
A104/6.03	Soft absorbent cloth (tea towel)	No	10		
A104/6.04	Shallow tray of area not less than 0.065 m ²	No	2		
A104/6.05	An airtight container of similar capacity to the basket	No	2		
A104/6.06	Pycnometer of 1 litre capacity	No	4		
A104/6.07	Semi automatic 5 kg balance accurate to 0.1g to be of size and type to permit the basket containing the sample to be suspended in water(to be supplied with weights)	No	1		
A104/6.08	Hot air drier (electric)	No	2		
	7. Flakiness (BS 812)				
A104/7.01	Thickness gauge (various sizes)	No	2		
	8. Sieve Analysis (BS 1377)				
A104/8.01	BS Sieve 300mm diameter in sizes 75, 63, 50, 37.5, 28, 20, 14, 10, 6.3, 5 and 4 mm, plus lid and receiver	Set	2		
A104/8.02	BS Sieve 200mm diameter in sizes 2, 1, 0.6, 0.5, 0.425, 0.300,0.150 and 0.075 mm, plus lid and receiver	Set	2		
A104/8.03	Electric sieve shaker	No	1		
A104/8.04	BS sieve 200mm diameter 0.425 and 0.075 mm	set	1		
A104/8.05	1 m x 1 m x 75mm deep galvanized metal tray	No	10		
A104/8.06	Riffle box with 50mm slots (BS 1377)	No	1		
	9. Miscellaneous Equipment				
A104/9.01	Wheel barrow	No	3		
A104/9.02	Dustpan and brush	No	3		
A104/9.03	Shovel	No	4		
A104/9.04	Pick axe with handle	No	4		
A104/9.05	Metal scoop, large (150mm wide)	No	3		
A104/9.06	Metal scoop, medium (100mm wide)	No	4		
A104/9.07	Garden trowel	No	2		
A104/9.08	Steel tray 0.3m x 0.3m x 0.01m deep	No	15		
A104/9.09	Palette knife 200mm long blade	No	3		
A104/9.10	Palette knife 100mm long blade	No	4		
A104/9.11	BS sieve 450mm diameter, 37.5mm	No	1		
A104/9.12	BS sieve 450mm diameter, 20mm	No	1		
A104/9.13	BS sieve 450mm diameter, 5mm	No	1		
A104/9.14	BS sieve 450mm diameter, 0.425mm	No	1		
A104/9.15	BS sieve 450mm diameter, 0.3mm	No	1		
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A104/9.16	BS sieve 450mm diameter, 0.075mm	No	1		
A104/9.17	Set of lid and receiver for metal scoop and steel trays	No	2		
A104/9.18	BS Sieve brush	No	2		
A104/9.19	Measuring cylinder set, 25 ml, 100 ml, 500 ml, 1000 ml, 2000 ml	set	2		
A104/9.20	Glass jar capacity 5 litres with lid	No	10		
A104/9.21	200mm x 200mm x 20mm cadmium plated or aluminium tin	No	20		
A104/9.22	Electronic balance capacity 1000 g, accurate to 0.01gm.	No	1		

APPENDIX A					
APPENDIX TO BILL ITEM 1.05: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/9.23	Balance 2000 g capacity accuracy to 0.1g (manual), including weights	No	1		
A104/9.24	Balance 50kg capacity accurate to 10gm including weights	No	1		
A104/9.25	Still for producing distilled water	No	1		
A104/9.26	Polythene or glass 20 litres storage vessel with tap at bottom	No	2		
A104/9.27	Stiff broom	No	2		
A104/9.28	Vernier calipers, 150mm	No	2		
A104/9.29	Vernier calipers, 250mm	No	2		
A104/9.30	Pestle and mortar	No	2		
A104/9.31	Linear shrinkage mould (BS 1377)	No	6		
A104/9.32	Liquid Limit Device	No	2		
A104/9.33	Average least dimension gauge	No	2		
A104/9.34	Lockable tool box containing: 1 pr"Molegrips", 2 x 150mm screwdriver, 2 x 200 mm screwdriver, 2 x 300 mm screwdriver,(1 standard and 1 Phillips head of each) adjustable spanners 200 mm and 300 mm, 1 pair round nosed pliers, 1 pair general purpose pliers,	No	1		
A104/9.35	Plastic or metal bucket including lid,10 litres capacity	No	6		
A104/9.36	Polythene wash bottle (500 ml)	No	5		
A104/9.37	A4 size clipboard	No	4		
A104/9.38	Thermometer, range -10°C to150°C, glass (BS 593)	No	2		
A104/9.39	Laboratory thermometer, range + 0°C to + 250°C (BS 593)	No	2		
A104/9.40	Maximum and minimum thermometer (BS692)	No	2		
A104/9.41	Rain gauge	No	1		
A104/9.42	Portable dial thermometer + 50°C to +250°C accurate to ± 3%	No	1		
A104/9.43	Ditto with 0.75m long stem	No	1		
A104/9.44	Pocket thermometer + 50°C to +250°C accurate to ± 3% with 0.1 m stem	No	2		
A104/9.45	5 litre capacity steel storage containers with leak and dust proof lids for storage of bitumen samples	No	50		
A104/9.46	Hotplate 200mm diameter with Simmerstat heat control unit.	No	2		
A104/9.47	450mm diameter x 150mm deep metal mason's basin	No	6		
	11. Concrete: Slump and Cube Manufacture (BS 1881)				
A104/11.01	Slump cone, tamping rod and base	set	2		
A104/11.02	Concrete cube mould, 150mm cube	No	30		
A104/11.03	Soaking tank for cubes (capacity 50 No.)	No	1		
A104/11.04	Cube tamping bars	No	10		
	12. Concrete: Cube Compression Testing				
A104/12.01	Concrete compression machine to BS1610 Grade A with 300 mm gauge, rectangular platens, capacity 1560 kN with load spacer	No	1		
A104/12.02	Safety guard for above				
A104/12.03	50mm distance piece				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/12.04	70mm distance piece				
A104/12.05	Electro-mechanical load pacer, 100 mm or equivalent distance piece				
	13. Aggregate and Chippings				
A104/13.01	Sand equivalent to AASHTO T176 including graduated plastic cylinder, rubber stopper, irrigation tube weighted foot assembly, siphon assembly, 85ml tin box (57mm dia.), 100 mm dia wide mouth funnel, stop clock, mechanical shaker and 10 litre jar	Set	1		
A104/13.02	Beaker 250ml	No	2		
A104/13.03	Aggregate Crushing Value Apparatus, 150 mm nominal diameter , including plunger and base plate	No	2		
A104/13.04	Tamping rod and metal measure for above	Set	4		
A104/13.05	Los Angeles Abrasion to ASTM standards	No	1		
A104/13.06	Set of 12 abrasive charges	No	2		
A104/13.07	Thermometer, 0°C to +50°C	No	2		
A104/13.08	Thermometer, 0°C to +250°C	No	2		
A104/13.09	Reagent grade Silica gel, 500g container	No	50		
	14. Bitumen Spray Test (BS 1707)				
A104/14.1	Transverse distribution of spray test bitumen distributor (depot tray test to BS 1707) or equivalent.	Set	1		
A104/14.02	Steel tray 20 mm deep x0.1m ² (for measuring bitumen spray rates) with purpose made detachable handle 1.5m long.	No.	4		
	16. Bitumen Extraction Test				
	A) Extractor Bottle Method BS 598 Part 2				
A104/16.01	Electronic top pan balance 4kg capacity, sensitive to 0.1gm	No	1		
A104/16.02	Flat bottomed scoop	No	3		
A104/16.03	Steel garden trowel	No	2		
A104/16.04	Large steel spoon	No	2		
A104/16.05	Heat resistant gloves	pair	10		
A104/16.06	Foot pump for pressurising air water assemblies up to a maximum of 700KN/m ² and fitted with flexible hose approximately 1.2m long and connector	No	2		
A104/16.07	Steel bottle 600ml capacity with 49mm rubber stopper	No	2		
A104/16.08	Steel bottle 2500ml capacity with 71mm rubber stopper	No	2		
A104/16.09	Steel bottle 7000ml capacity with 71mm rubber stopper	No	2		
A104/16.10	Flask funnel for fitting to the 700ml steel bottle with rim of funnel retaining sieve 200mm nominal diameter	No	2		
A104/16.11	Bottle roller compact bench mounted unit designed to rotate 2 bottles simultaneously about longitudinal axis	No	1		

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/16.12	Pressure filter complete with cutting tool for making hole in the filter paper	No	1		
A104/16.13	Filter funnel to take 200mm nominal diameter sieves	No	2		
A104/16.14	Centrifuge complying with BS 598	No	1		
A104/16.15	Binder recovery	No	1		
A104/16.16	Volumetric flask 250ml, 500ml, 1000ml and 2000ml capacity	set	2		
A104/16.17	Recovery still for Dichloromethane	No	1		
	B) Hot Extractor Method BS 598 Part 2				
A104/16.18	Hot extractor complete with wire gauze container gasket, cork lid and support assembly	No	2		
A104/16.19	Dean and Stark receiver with condenser to suite Trichloroethylene	No	2		
A104/16.20	Gyratory compactor ELE Servo Pac or equivalent with 1 x 100mm and 1 x 150mm moulds	No	2		
A104/16.21	PRD Vibrating hammer compactor complete with 6 moulds, 7 base plates from ELE	SET	1		
A104/16.22	Two (2) sets of Tamping foot 102mm diameter and 146mm diameter and shanks to fit the supplied vibratory hammer	SET	2		
	17. Consumables				
A104/17.01	Paraffin wax	Kg	50		
A104/17.02	Gunny sack	No	500		
A104/17.03	Plastic bag 900x450x1000 gauge	No	500		
A104/17.04	Plastic bag 450x300x1000 gauge	No	500		
A104/17.05	Filter paper 150mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.06	Filter paper 400mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.07	Filter paper 100mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.08	Filter paper 400mm diameter Whatman No. 54 (Boxes of 100)	No	10		
A104/17.09	Filter paper 270mm diameter with 33 diameter hole at centre Whatman No. 5 (Boxes of 100)	No	15		
A104/17.10	Trichloroethylene (205 Litre Drum)	No	5		
A104/17.11	Dichloromethane	kg	200		
A104/17.12	Cotton waste	kg	50		
A104/17.13	13kg Gas cylinders filled with gas and with compatible gas burners	No	5		
A104/17.14	Sodium sulphate	kg	45		
A104/17.15	Sand for density test	kg	250		
	C/Forward to item 1.05				