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Bar Bending Schedule (BBS)

Every bar cut and bent: member, mark, size, number, cut length and shape. Weight and 12 m lengths to order calculate.

Project	4-bedroom bungalow, Lugbe, Abuja (example)	**Drawing**	S-201 Rev B
Prepared by	(engineer / iron bender)	**Date**	23-Nov-2026

BAR WEIGHTS

kg per metre = d² ÷ 162 (d in mm): Y8 0.395 · Y10 0.617 · Y12 0.888 · Y16 1.58 · Y20 2.47 · Y25 3.85. Shape codes follow BS 8666 (00 straight, 21 U-bar, 51 link).

Member	Bar mark / description	Type	Dia (mm)	No. of bars	Cut length (m)	Shape code	kg/m	Weight (kg)	12 m lengths
Column bases (6 nr)									
Base	B1 bottom both ways	Y12	12	84	1.35	00	₦1	₦101	₦10
Columns (14 nr, 3.3 m)									
Column	C1 main bars	Y16	16	56	4.10	00	₦2	₦363	₦20
Column	C2 links @ 200	Y8	8	252	0.95	51	₦0	₦95	₦20
Lintel & ring beam (230 × 225)									
Beam	R1 top & bottom	Y12	12	24	12.00	00	₦1	₦256	₦24
Beam	R2 laps at corners	Y12	12	16	1.20	21	₦1	₦17	₦2
Beam	R3 links @ 200	Y8	8	310	0.80	51	₦0	₦98	₦21

							Total	**₦929**	**₦97**

ORDER SUMMARY BY SIZE

Size	Dia (mm)	Weight (kg)	12 m lengths	Weight + 5% wastage (kg)	Price per kg (₦)	Cost (₦)
Y8	8	₦193	₦41	₦202	₦1,600	₦323,360
Y10	10	₦0	₦0	₦0	₦1,590	₦0
Y12	12	₦374	₦36	₦393	₦1,590	₦624,234
Y16	16	₦363	₦20	₦381	₦1,700	₦647,530
Y20	20	₦0	₦0	₦0	₦1,700	₦0
Y25	25	₦0	₦0	₦0	₦1,700	₦0
	Total to order	**₦929**	**₦97**	**₦976**		**₦1,595,124**

Iron rods are priced per kg (current market price ÷ bar weight) so the cost holds whether your dealer sells 6 m or 12 m lengths. Check cut lengths include bends and laps (typically 40–50 × bar diameter) per the structural drawings.

Free template from NigeriaBuildingCost.ng. Rates are indicative (Nov 2026) — check current prices in your location before relying on any figure.
Faster option: use the free Rebar Calculator — quick rod counts for slabs, beams and columns at https://nigeriabuildingcost.ng/rebar-calculator