QUANGANHCONS

INDUSTRIAL SOLAR PRE-SURVEY ESTIMATE · 150 kWp

QAC-SOL-EST-20261109-3EFF6678 | QAC Solar 8.21.0 | 09 Nov 2026

> PRELIMINARY - Indicative selling prices before site survey; not a firm EPC bid. Grid/PCC, roof condition and any new MV scope must be verified.

DESCRIPTION / SPECIFICATION	UNIT	QTY	UNIT PRICE (VND)	AMOUNT (VND)
I. PV modules and inverters				
1. PV modules640 Wp · 2382x1134x30mm	module	235	3,740,737	879,073,195
2. Grid-connected string inverter125 kW AC · 400 V · 3 phase · 12 MPPT	set	1	189,099,479	189,099,479
3. Sungrow Logger1000A/B data logger — provisional selectionSungrow · Data acquisition and monitoring. Export control is subject to the confirmed system configuration.	set	1	22,719,931	22,719,931
4. RS485 shielded twisted-pair cable, 2 × 0.75 mm²	m	50	35,894	1,794,700
5. Communication patch cables	pc	2	95,255	190,510
139. Bidirectional power meter/transducer at PoCBidirectional power measurement for control at the connection point.	pc	1	7,286,341	7,286,341
140. PoC CT/VT metering scope — voltage and wiring pendingMetering scope; CT/VT configuration subject to the confirmed scheme.	lot	1	14,859,651	14,859,651
141. Export-control integration and response/fail-safe testingExport limitation integration and interlock testing under the confirmed design.	lot	1	5,009,336	5,009,336

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142. Network, auxiliary supply and monitoring enclosure scopeAdditional monitoring infrastructure; configuration subject to site confirmation.	lot	1	4,825,679	4,825,679
II. Mounting and roof attachments				
6. Roof attachments / mounting feet	set	500	30,331	15,165,500
7. Aluminium mounting railsChiko	bar	132	419,017	55,310,244
8. Rail joiner kits	set	104	23,885	2,484,040
9. Mid-clamp kitsChiko	set	442	14,402	6,365,684
10. End-clamp kitsChiko	set	56	14,300	800,800
11. Module bonding clipsChiko	set	442	14,402	6,365,684
12. Rail earthing terminalsChiko	set	28	29,794	834,232
14. DC cable clipsChiko	set	470	2,982	1,401,540
III. DC electrical system				
17. Black DC PV cable 6 mm²Leader DC-6-BK · Single-core PV cable; 1,500 VDC; UV resistant.	m	1120	31,222	34,968,640
18. Red DC PV cable 6 mm²Leader DC-6-RD · Single-core PV cable; 1,500 VDC; UV resistant.	m	1120	31,222	34,968,640
19. Matched DC connector pairLeader · Same-manufacturer/series connectors compatible with the equipment.	pair	28	38,940	1,090,320
20. Outdoor DC cable conduitCVL	m	224	13,382	2,997,568
21. DC conduit fittingsCVL	set	28	8,892	248,976
22. UV-resistant cable ties, 200 mmKST	bag	1	66,672	66,672

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23. UV-resistant cable ties, 300 mmKST	bag	2	66,677	133,354
IV. AC switchboards and protection				
26. Solar switchboard enclosure — IP, Form and dimensions pendingEnclosure; circuit breakers and busbars are itemised separately.	pc	1	9,189,456	9,189,456
27. Fabricated copper busbar assembly with supports and N/PE accessoriesCopper busbars, fabrication, supports and N/PE accessories.	assembly	1	4,942,942	4,942,942
28. Phase indication protection set	set of 3	1	133,400	133,400
29. Phase indication lamps	pc	3	50,028	150,084
30. AC board multifunction meter including energy measurementSelec · Operational metering at the AC board; does not replace control metering at the connection point.	pc	1	3,946,419	3,946,419
32. Metering current transformersOmega CT-200/5A class 0.5S	pc	3	390,615	1,171,845
33. Auxiliary circuit protection — rating pendingOmega	pc	1	1,003,804	1,003,804
34. Switchboard temperature sensor	pc	1	556,730	556,730
35. Switchboard ventilation fans	pc	2	1,346,859	2,693,718
36. AC surge protection — coordination and ratings pendingHimel	set	1	3,946,419	3,946,419

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37. Main AC circuit breakerMitsubishi NF250-CV 3P 200A · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	1	4,220,099	4,220,099
38. Individual inverter AC circuit breakerMitsubishi NF250-CV 3P 250A · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	1	4,220,099	4,220,099
V. AC cables and terminations				
39. Inverter AC phase cable 150 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	75	802,787	60,209,025
40. Main AC cable, parallel runs per design 95 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	140	528,434	73,980,760
41. Main protective conductor 50 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	35	247,347	8,657,145
43. Main cable copper lugs — hole size pendingCU-LUG-95	pc	8	52,817	422,536
44. Lug connection bolts — terminal size pendingCadivi	set	8	22,229	177,832
45. Inverter phase conductor lugsCU-LUG-150	pc	6	83,408	500,448
46. Inverter PE conductor lugsCU-LUG-95	pc	2	52,788	105,576
47. Main phase lug insulation, redCadivi BOOT-95	pc	2	6,667	13,334
48. Main phase lug insulation, blueCadivi BOOT-95	pc	2	6,667	13,334
49. Main phase lug insulation, yellowCadivi BOOT-95	pc	2	6,667	13,334

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50. Main neutral lug insulationCadivi BOOT-95	pc	2	6,667	13,334
51. Inverter phase lug insulation, redCadivi BOOT-150	pc	2	8,334	16,668
52. Inverter phase lug insulation, blueCadivi BOOT-150	pc	2	8,334	16,668
53. Inverter phase lug insulation, yellowCadivi BOOT-150	pc	2	8,334	16,668
54. PE lug insulationCadivi BOOT-95	pc	2	6,667	13,334
55. Inverter protective conductor 95 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	25	482,657	12,066,425
56. AC cable conduit — diameter and fill pendingCVL	m	8	50,036	400,288
57. AC conduit fittings — diameter pendingCVL	set	2	20,006	40,012
60. String labels and DC/AC warning labels	pc	38	5,002	190,076
61. DC/AC cable glands	pc	15	50,067	751,005
63. Main PE lug and insulation kitMAIN-PE-LUG-BOOT-50	pc	2	30,559	61,118
133. Inverter neutral conductor 150 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	25	755,147	18,878,675
134. Inverter neutral conductor lugsCU-LUG-150	pc	2	83,358	166,716
135. Inverter neutral lug insulationBOOT-N-150	pc	2	8,334	16,668
VI. Cable trays and access				
64. DC cable tray, reference 100 × 50 mm	m	40.20	218,556	8,785,951
65. DC cable tray, reference 200 × 75 mm	m	16.75	435,689	7,297,791

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66. DC cable tray, reference 400 × 75 mm	m	10.05	787,732	7,916,707
67. AC cable containment — dimensions pending cable layout	m	60	856,926	51,415,560
78. Self-drilling screws and fasteners for trays and walkways	pc	360	1,788	643,680
79. Access walkway	m	60	575,551	34,533,060
81. Cable tray supports, threaded rods and purlin clamps	set	66	145,973	9,634,218
84. Walkway supports	set	41	102,162	4,188,642
85. Walkway splice connectors and joining accessories	set	24	77,713	1,865,112
144. Outstanding cable tray fitting scheduleAccessories for actual routes; detailed schedule to be confirmed.	lot	1	7,956,148	7,956,148
VII. Earthing and bonding				
143. Outstanding earthing and bonding scopeProvisional scope; earthing quantities and design require site verification.	lot	1	4,534,752	4,534,752
X. Construction and site management				
111. Mechanical installation labor	person-hour	417	118,883	49,574,211
112. Electrical installation labor	person-hour	133	123,783	16,463,139
113. Lifting equipment allowance — lift plan pending	shift	2	7,801,895	15,603,790
114. Transport allowance — payload and access pending	trip	1	6,354,824	6,354,824
136. Site technical supervisionQuangAnhcons	engineer-day	25	1,650,947	41,273,675

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137. Work-at-height safety supervisionQuangAnhcons	person-day	25	1,138,236	28,455,900
138. Mobilization, site facilities and demobilizationQuangAnhcons	lot	1	7,326,130	7,326,130

TOTAL BEFORE VAT	1,804,800,000
VAT assumption 10%	180,480,000
TOTAL WITH VAT	**1,985,280,000 VND**

Totals sum the displayed source line amounts. Unit prices may be rounded for display. No cost, discount or margin data. This document is not an approved vendor quotation or statutory VAT determination.

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