QUANGANHCONS

INDUSTRIAL SOLAR PRE-SURVEY ESTIMATE · 200 kWp

QAC-SOL-EST-20261109-9369806C | 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	313	3,345,572	1,047,164,036
2. Grid-connected string inverter30 kW AC · 400 V · 3 phase · 3 MPPT	set	6	43,896,917	263,381,502
3. Sungrow Logger1000A/B data logger — provisional selectionSungrow · Data acquisition and monitoring. Export control is subject to the confirmed system configuration.	set	1	22,104,748	22,104,748
4. RS485 shielded twisted-pair cable, 2 × 0.75 mm²	m	150	35,996	5,399,400
5. Communication patch cables	pc	2	95,247	190,494
139. Bidirectional power meter/transducer at PoCBidirectional power measurement for control at the connection point.	pc	1	7,217,991	7,217,991
140. PoC CT/VT metering scope — voltage and wiring pendingMetering scope; CT/VT configuration subject to the confirmed scheme.	lot	1	14,586,237	14,586,237
141. Export-control integration and response/fail-safe testingExport limitation integration and interlock testing under the confirmed design.	lot	1	5,884,152	5,884,152

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DESCRIPTION / SPECIFICATION	UNIT	QTY	UNIT PRICE (VND)	AMOUNT (VND)
142. Network, auxiliary supply and monitoring enclosure scopeAdditional monitoring infrastructure; configuration subject to site confirmation.	lot	1	4,795,296	4,795,296
II. Mounting and roof attachments				
6. Roof attachments / mounting feet	set	662	30,159	19,965,258
7. Aluminium mounting railsChiko	bar	174	411,022	71,517,828
8. Rail joiner kits	set	138	23,862	3,292,956
9. Mid-clamp kitsChiko	set	590	14,367	8,476,530
10. End-clamp kitsChiko	set	72	14,296	1,029,312
11. Module bonding clipsChiko	set	590	14,367	8,476,530
12. Rail earthing terminalsChiko	set	36	29,783	1,072,188
14. DC cable clipsChiko	set	626	2,980	1,865,480
III. DC electrical system				
17. Black DC PV cable 6 mm²Leader DC-6-BK · Single-core PV cable; 1,500 VDC; UV resistant.	m	1440	30,826	44,389,440
18. Red DC PV cable 6 mm²Leader DC-6-RD · Single-core PV cable; 1,500 VDC; UV resistant.	m	1440	30,826	44,389,440
19. Matched DC connector pairLeader · Same-manufacturer/series connectors compatible with the equipment.	pair	36	38,924	1,401,264
20. Outdoor DC cable conduitCVL	m	288	13,366	3,849,408
21. DC conduit fittingsCVL	set	36	8,891	320,076
22. UV-resistant cable ties, 200 mmKST	bag	2	66,672	133,344

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23. UV-resistant cable ties, 300 mmKST	bag	3	66,675	200,025
IV. AC switchboards and protection				
26. Solar switchboard enclosure — IP, Form and dimensions pendingEnclosure; circuit breakers and busbars are itemised separately.	pc	1	9,024,042	9,024,042
27. Fabricated copper busbar assembly with supports and N/PE accessoriesCopper busbars, fabrication, supports and N/PE accessories.	assembly	1	5,822,189	5,822,189
28. Phase indication protection set	set of 3	1	133,363	133,363
29. Phase indication lamps	pc	3	50,013	150,039
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	3,914,758	3,914,758
32. Metering current transformersOmega CT-400/5A class 0.5S	pc	3	557,139	1,671,417
33. Auxiliary circuit protection — rating pendingOmega	pc	1	1,001,710	1,001,710
34. Switchboard temperature sensor	pc	1	556,090	556,090
35. Switchboard ventilation fans	pc	2	1,339,415	2,678,830
36. AC surge protection — coordination and ratings pendingHimel	set	1	3,914,758	3,914,758

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37. Main AC circuit breakerMitsubishi NF400-CW 3P 350A · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	1	9,996,436	9,996,436
38. Individual inverter AC circuit breakerMitsubishi NF125-CV 3P 63A · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	6	2,462,614	14,775,684
V. AC cables and terminations				
39. Inverter AC cable, 4C × 16 mm² (3P+N; separate PE)CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	150	382,681	57,402,150
40. Main AC cable, parallel runs per design 240 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	140	1,318,620	184,606,800
41. Main protective conductor 120 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	35	622,645	21,792,575
43. Main cable copper lugs — hole size pendingCU-LUG-240	pc	8	133,422	1,067,376
44. Lug connection bolts — terminal size pendingCadivi	set	8	22,225	177,800
45. Inverter phase conductor lugsCU-LUG-16	pc	36	11,114	400,104
46. Inverter PE conductor lugsCU-LUG-16	pc	12	11,112	133,344
47. Main phase lug insulation, redCadivi BOOT-240	pc	2	13,334	26,668
48. Main phase lug insulation, blueCadivi BOOT-240	pc	2	13,334	26,668
49. Main phase lug insulation, yellowCadivi BOOT-240	pc	2	13,334	26,668

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50. Main neutral lug insulationCadivi BOOT-240	pc	2	13,334	26,668
51. Inverter phase lug insulation, redCadivi BOOT-16	pc	12	6,668	80,016
52. Inverter phase lug insulation, blueCadivi BOOT-16	pc	12	6,667	80,004
53. Inverter phase lug insulation, yellowCadivi BOOT-16	pc	12	6,667	80,004
54. PE lug insulationCadivi BOOT-16	pc	12	6,667	80,004
55. Inverter protective conductor 16 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	150	86,335	12,950,250
56. AC cable conduit — diameter and fill pendingCVL	m	48	50,074	2,403,552
57. AC conduit fittings — diameter pendingCVL	set	12	20,003	240,036
60. String labels and DC/AC warning labels	pc	96	5,001	480,096
61. DC/AC cable glands	pc	40	50,062	2,002,480
63. Main PE lug and insulation kitMAIN-PE-LUG-BOOT-120	pc	2	73,340	146,680
134. Inverter neutral conductor lugsCU-LUG-16	pc	12	11,112	133,344
135. Inverter neutral lug insulationBOOT-N-16	pc	12	6,667	80,004
VI. Cable trays and access				
64. DC cable tray, reference 100 × 50 mm	m	45.60	215,805	9,840,708
65. DC cable tray, reference 200 × 75 mm	m	19	431,104	8,190,976
66. DC cable tray, reference 400 × 75 mm	m	11.40	778,764	8,877,910

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67. AC cable containment — dimensions pending cable layout	m	185	854,209	158,028,665
78. Self-drilling screws and fasteners for trays and walkways	pc	360	1,787	643,320
79. Access walkway	m	60	548,212	32,892,720
81. Cable tray supports, threaded rods and purlin clamps	set	133	144,827	19,261,991
84. Walkway supports	set	41	101,495	4,161,295
85. Walkway splice connectors and joining accessories	set	24	77,485	1,859,640
144. Outstanding cable tray fitting scheduleAccessories for actual routes; detailed schedule to be confirmed.	lot	1	16,061,240	16,061,240
VII. Earthing and bonding				
143. Outstanding earthing and bonding scopeProvisional scope; earthing quantities and design require site verification.	lot	1	4,911,516	4,911,516
X. Construction and site management				
111. Mechanical installation labor	person-hour	566	114,982	65,079,812
112. Electrical installation labor	person-hour	233	123,240	28,714,920
113. Lifting equipment allowance — lift plan pending	shift	2	7,653,745	15,307,490
114. Transport allowance — payload and access pending	trip	1	6,303,383	6,303,383
136. Site technical supervisionQuangAnhcons	engineer-day	35	1,607,621	56,266,735
137. Work-at-height safety supervisionQuangAnhcons	person-day	35	1,116,497	39,077,395

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138. Mobilization, site facilities and demobilizationQuangAnhcons	lot	1	9,174,742	9,174,742

TOTAL BEFORE VAT	2,403,840,000
VAT assumption 10%	240,384,000
TOTAL WITH VAT	**2,644,224,000 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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