



BILL OF MATERIALS			
MATERIAL	DESCRIPTION	QUANTITY	UNITS
HV CABLE	240mm2 SINGLE CORE Al	285	km
DC CABLE	SUB-ARRAY (10mm2) TWIN Cu	120	km
DC CABLE	STRING (4mm2) TWIN Cu	3400	km
INVERTER STATIONS	SMA MVPS 5500-EV	41	EA
MODULES		641088	EA
TRACKERS	NEXTRACKER GEMINI (Two IN PORTRAIT)	5724	EA
COMBINER BOXES	1000V 32-INPUT COMBINER BOX (IP65)	954	EA
PIER	NEXTRACKER PIER, 4m DEEP	57240	EA

OVERALL SYSTEM SPECIFICATION		
MODULE	641088	TALESUN TP6H72M(H)-440-L-35mm
INVERTER STATION	41	SMA MVPS 5500-EV (CONTAINING 2x 2750kVA INVERTERS)
INVERTER	82	SMA SUNNY CENTRAL 2750-EV
BATTERY	105.60	MVA
DC CAPACITY	282.08	Mwp
AC CAPACITY	220.00	MVA (LIMITED FROM 225.5MVA)
DC/AC RATIO		1.28

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE VERIFIED ON SITE BY CONTRACTOR.
 - PRINT IN COLOUR.
 - THIS DRAWING IS BASED ON THE INFORMATION SUPPLIED TO THE DESIGNER FROM ITS CLIENTS OR SUBCONTRACTORS AND HAS BEEN PROVIDED IN ACCORDANCE WITH GSES' TERMS AND CONDITIONS.
 - COLOURS AND FINISHES OF ALL BUILDINGS AND WORKS ARE PROVIDED AT APPENDIX P.
 - GROUND VEGETATION/GRASS MAINTAINED TO MAXIMUM OF 100mm DURING DECLARED FIRE DANGER SEASON.
 - ALL INFRASTRUCTURE HOUSING TO BE LOCATED OUTSIDE OF OR HAVE A FINISHED FLOOD LEVEL SET AT LEAST 300mm ABOVE THE ESTIMATED 1% AEP FLOOD EXTENT SPECIFIED IN THE FLOOD IMPACT ASSESSMENT PREPARED BY VENANT SOLUTIONS DATED 10 AUGUST 2021.
 - PRIOR TO THE COMMENCEMENT OF THE USE, THE NORTH-SOUTH DRAIN (ALONG EASTERN BOUNDARY) TO BE CLEANED TO ENSURE AN EFFICIENT CONVEYANCE OF WATER TO THE SATISFACTION OF THE CORANGAMITE SHIRE COUNCIL. ONCE CLEANED, THE DRAIN MUST BE MAINTAINED TO THE SATISFACTION OF THE CORANGAMITE SHIRE COUNCIL.
 - SEE THE BOOKAAR SOLAR FARM LANDSCAPE PLAN FOR DETAILS OF SPECIES TYPE AND SCREEN COMPOSITION.
 - LANDSCAPE SCREEN COMPOSITION VARIES ACROSS SITE.
 - CCTV AT SITE ENTRY LOCATIONS AND AT BOUNDARIES.

- LEGEND:
- INVERTER STATION (ON HARDSTAND)
 - AC TRENCH
 - WATER TANK WITH HARDSTAND
 - SITE ACCESS GATE (MAIN & EMERGENCY)
 - INTERNAL TRACK NETWORK (NO HIGHER THAN EXISTING GROUND LEVEL)
 - ASSET PROTECTION ZONE (APZ) - CRUSHED ROCK SURFACE
 - ACCESS ROAD (EXISTING)
 - EXISTING VEGETATION
 - PROPOSED VEGETATION
 - OVERHEAD HV TRANSMISSION LINE
 - OVERHEAD HV TRANSMISSION LINE (EXISTING)
 - OVERHEAD 11kV LINE (EXISTING)
 - UNDERGROUND 11kV LINE
 - TRANSMISSION LINE EASEMENT
 - SECURITY FENCE
 - DRAINAGE RESERVE
 - PROJECT BOUNDARY
 - ARRAY AREA BOUNDARY
 - DRAIN
 - LAYDOWN AREA
 - OPERATIONS AREA
 - BATTERY AREA
 - SUBSTATION AREA
 - 1.2m HIGH AGRICULTURAL -STYLE FENCE
 - ACCESS GATE TO VEGETATION SCREEN & DRAIN (3m)
 - PV ARRAY (NORTH OF 220kV TRANSMISSION LINE)
 - PV ARRAY (SOUTH OF 220kV TRANSMISSION LINE)

SITE PLAN VIEW
SCALE 1:15000

- SITE PLAN APPENDIX LIST
- APPENDIX A: BATTERY AND SUBSTATION PLAN
 - APPENDIX B: SUBSTATION ELEVATION
 - APPENDIX C: BATTERY ELEVATION
 - APPENDIX D: OPERATIONS BUILDINGS ELEVATION
 - APPENDIX E: GATE ELEVATION
 - APPENDIX F: TRACKER ELEVATION
 - APPENDIX G: INVERTER ELEVATION
 - APPENDIX H: INVERTER MAX. ELEVATION
 - APPENDIX I: PILE EXAMPLE
 - APPENDIX J: DETAIL OF ARRAY AREAS
 - APPENDIX K: BOUNDARY DETAIL EXAMPLES
 - APPENDIX L: CABLE ROUTES
 - APPENDIX M: TEMPORARY CONSTRUCTION COMPOUND LAYOUT
 - APPENDIX O: STATIC FIRE WATER DETAILS
 - APPENDIX P: COLOURS AND FINISHES AND ELECTRICAL INFRASTRUCTURE LIST

NOT FOR CONSTRUCTION

REVISION PANEL				DESIGN PANEL	
REV	DATE	DRN	DETAILS	APR'D	DESIGNED
5	13/10/22	N.T	CONDITION 1 DRAWING UPDATES	B.C	29/05/2020
4	09/06/22	N.T	RE-ISSUED	B.C	H.SMITH
3	22/06/21	B.C	UPDATED PER CLIENT REQUEST	A.B	29/05/2020
2	14/12/20	H.S	UPDATED APPENDIX LIST	A.B	H.SMITH
1	22/10/20	H.S	PLANNING SUBMISSION	A.B	29/05/2020
CURRENT REV CONTRACTOR: GSES				CONTRACTOR GSES	
CURRENT REV PROJECT:				DESIGNED	
				AUTHORISED	
				SIGNATURE	
				REVIEWED	
				CONTRACTOR GSES	



BOOKAAR 220MW SOLAR FARM
520 MENINGOORT ROAD, BOOKAR VIC 3260
SOLAR GENERATION
SITE PLAN VIEW

A1	TOTAL SHEETS:	5
SHT SIZE	PROJECT No: P1017	REVISION
MAXIMO ID:		
SUPERSEDES:		
DRAWING NUMBER		
P1017-01-001-01		