

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GOVERNMENT NOTICE NO. 5 published on 1/1/2021

THE VALUE ADDED TAX ACT,
(CAP. 148)

ORDER

(Made under section 6 (2))

THE VALUE ADDED TAX (EXEMPTION) (REHABILITATION AND UPGRADING OF IRINGA AIRPORT)(TANZANIA NATIONAL ROAD AGENCY (TANROADS))(M/S SINOHYDRO CORPORATION LIMITED) ORDER, 2020

Citation and Commencement

1. This Order may be cited as the Value Added Tax (Exemption)(Rehabilitation and Upgrading of Iringa Airport Runway)(Tanzania National Road Agency (TANROADS)) (M/S Sinohydro Corporation Limited) Order, 2020 and shall be deemed to have come into operation on the 24th day of July, 2020.

Exemption

2.-(1) Subject to the conditions specified in paragraph 3 of this Order, and any other conditions as may be specified by the Commissioner, the whole of the Value Added Tax payable on the on the goods or services specified in the Schedule to this Order imported or purchased prior to clearance through customs or locally purchased by or on behalf of M/S Sinohydro Corporation Limited to be used solely in the project of Rehabilitation of Iringa Airport is hereby exempt.

(2) For avoidance of doubt, the goods imported or locally purchased, whether directly by the Government entity or through a contractor shall remain the property of the Government of Tanzania.

Conditions

3. The exemption granted under this Order shall cease to have effect and the Value Added Tax shall become due and be payable as if this exemption had not been made if the said goods or services are used for other purposes or sold or disposed of in any way to another person not entitled to enjoy similar privileges as are conferred under this Order.

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

Expiry

4. This Order shall expire on 30th day of March, 2022.

SCHEDULE

(Made under paragraph 2(1))

GOODS AND SERVICES

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
A	Major Equipment and Plant			
A1	Station Wagon	2	Unit	Local/ Imported
A2	Double Cab Pickup	3	Unit	Local/ Imported
B	Minor Machineries, Tools and Mechanical Supplies			
C	Spare parts and accessories			
C1	battery for construction machinery various sizes	400	Nr	Local/ Imported
C2	Tyre for constructon machines/tippers 12.00-20	400	Nr	Local/ Imported
C3	Tyre for constructon machines/tippers 10.00-20	250	Nr	Local/ Imported
C4	Tyre for constructon machines/tippers 7.50-16	150	Nr	Local/ Imported
C5	Tyre for constructon machines/tippers 23.5-25	100	Nr	Local/ Imported
C6	Tyre for constructon machines/tippers 17.5-25	100	Nr	Local/ Imported
D	Material			
D1	Electricity	500000 0	Kwh	Local/ Imported
D2	Electric welding rod	1000	Kgs	Local/ Imported
D3	Nail	1000	Kgs	Local/ Imported
D4	Drilling pipe	400	Nr	Local/ Imported
D5	Drilling bits	500	Nr	Local/ Imported
D6	Gamalin disinfection	20000	Litres	Local/ Imported
D7	Galvanized iron wire	10000	Kgs	Local/ Imported
D8	water proofing paint	8000	Litres	Local/ Imported
D9	Gabion boxes	300	m3	Local/ Imported
D10	Plastic warning tape	20000	m	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
D11	Ladder	10	Nr	Local/ Imported
D12	Thermoplastic road-marking paint	50000	Kgs	Local/ Imported
D13	Glass beads	12000	Kgs	Local/ Imported
D14	Oxygen	1000	m3	Local/ Imported
D15	Acetylene gas	1000	Kgs	Local/ Imported
D16	Timber	1000	m3	Local/ Imported
D17	Waterproof cover	30000	m2	Local/ Imported
D18	Bitumen	3000	Tonne	Local/ Imported
D19	Bituminous Prime Coat	150000	Litres	Local/ Imported
D20	Bituminous Tack Coat	50000	Litres	Local/ Imported
D21	Cement 42.5	7000	Tonne	Local/ Imported
D22	Cement 32.5	27000	Tonne	Local/ Imported
D23	High Yield Stress Steel Reinforcement	1500	Tonne	Local/ Imported
D24	Bituminous water-proofing paint	2000	m2	Local/ Imported
D25	Scaffold	50	Tonne	Local/ Imported
D26	uPVC Pipe	3000	m	Local/ Imported
D27	uPVC Fittings	400	Set.	Local/ Imported
D28	IT05 coated aluminum sheets	4000	m2	Local/ Imported
D29	Iron sheets	3000	M	Local/ Imported
D30	Paints	1000	Litres	Local/ Imported
D31	Gypsum board	2500	m2	Local/ Imported
D32	Tiles	2500	m2	Local/ Imported
D33	Aluminium windows	500	m2	Local/ Imported
D34	Hardwood Doors	100	Nr	Local/ Imported
D35	Concrete blocks	3000	m2	Local/ Imported
D36	Lights	500	Nr	Local/ Imported
D37	PE Water Tank (SIMTANK)	10	Nr	Local/ Imported
D38	Water Booster Pumps	20	Nr	Local/ Imported
D39	PPR pipes	10000	m	Local/ Imported
D40	PPR pipe fittings	500	Nr	Local/ Imported
D41	Various valves	50	Nr	Local/ Imported
D42	Project signboard	2	Nr	Local/ Imported
D43	Sand	12000	m3	Local/ Imported
D44	Aggregate	14000	m3	Local/ Imported
D45	150mm Upvc Pipe	8000	m	Local/ Imported
D46	Termite medicine	1800	Litres	Local/ Imported
D47	Wind cone complete with tubular steel mast	2	Nr	Local/ Imported
D48	Nursery Sods	5000	m2	Local/ Imported
D49	Seed	30	Kgs	Local/ Imported
D50	Trees and Shrubs	20	Nr	Local/ Imported
D51	Anti-intruder fencing, Height 2400mm with additional 300mm buried and cranked top	8000	m	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	with 600mm diameter coiled razor wire deterrent			
D52	Anti-intruder double gate, Height 2400mm, Width:6000mm	6	Nr	Local/ Imported
D53	Anti-intruder Single gate, Height 2400mm, Width:1600mm	4	Nr	Local/ Imported
D54	Elevated unidirectional Approach light fitting complete with 1x50W (6.6 A) LED lamp, base plate, frangible coupling and all accessories etc.	34	Nr	Local/ Imported
D55	Elevated bidirectional Runway Edge light fitting, clear / clear complete 2x33W (6.6 A) with lamps, base plate, frangible coupling and all accessories etc. :	22	Nr	Local/ Imported
D56	Elevated bidirectional Runway Edge light fitting, yellow / clear complete with 2x33W (6.6 A) lamps, base plate, frangible coupling and all accessories etc. :	38	Nr	Local/ Imported
D57	Elevated omnidirectional Taxiway / Apron and Turn Pad Edge light fitting complete with LED 1x10W (6.6 A) lamp, lens, mounting plate, frangible coupling and all accessories etc.	45	Nr	Local/ Imported
D58	Threshold / Run End inset bi-directional Threshold / End light fitting (GREEN/RED) complete with 1x75 & 1x25 W (6.6 A) LED lamps, lens, filter and all accessories etc., bottom boxes with steel base / can / transformer housing box, epoxy and resin materials, all required accessories, connection of male and female connectors for primary and secondary cables, earthing of base / can , Cu ground Rod, counter poise / earth wire, sealing materials, Isolating Transformers, flexible pipes, joining of plug and receptacles, moulding of leads, etc.	26	Nr	Local/ Imported
D59	Mandatory / Location Guidance Sign Boards (Legend as approved) complete with 1x150W (6.6 A) LED lamps, made of aluminium frame with poly-carbonate sheet, frangible legs and all accessories etc.	4	Nr	Local/ Imported
D60	Runway Distance Markers complete with 3x150W (6.6 A) LED lamp, made of aluminium frame with poly-carbonate sheet, frangible legs and all accessories etc.	10	Nr	Local/ Imported
D61	PAPI unit complete with 2X200W (6.6 A) Halogen lamps, lens, filter, breakable coupling, legs, mounting assembly, local calibration kit and all accessories, Isolating Transformers, steel base / can / transformer	8	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	housing box, earthing of base / can, Cu ground Rod, counter poise / earth wire, sealing materials, all required accessories, connection of male and female connectors for primary and secondary cables, gaskets etc.			
D62	Microprocessor controlled CCR (Constant Current Regulator), indoor type for remote as well as local operations complete with lighting arrestors, cable glands, earth connections, laying of power and control cables with end terminations between the L.V. panel / ALCMS panel and the CCRs, inter-connections.	14	Nr	Local/ Imported
D63	LED illuminated WDI as per ICAO requirement, including supply and installation of control panel, laying of fibre optics cable & power cables / wiring from junction box with end terminations on both sides etc.	2	Nr	Local/ Imported
D64	Rotating Beacon as per ICAO requirement complete with supply and installation of control panel, laying of power cables / wiring from control panel to the Rotating Beacon with termination on both side etc.	1	Nr	Local/ Imported
D65	50 mm Al. pipe of following heights for mounting of Approach light fixtures.	2	Nr	Local/ Imported
D66	Triangle Pipe Pole of following heights for mounting of Approach light fixtures including providing foundation base plate etc., frangibility requirements as per ICAO	32	Nr	Local/ Imported
D67	100 mm dia pressurized uPVC pipe ducts (pipes, separators, bends, tees) concret encased in ground / under pavements as specified here-under, laying of counter poise and warning tape	2445	m	Local/ Imported
D68	concrete manholes as per drawing with steel covers along the ducts including provision of 50 / 100mm tee-off, complete in all respects:	27	Nr	Local/ Imported
D69	50 mm dia 1 / 2 pressurized uPVC pipes (pipes, separators, bends, tees) in ground / under pavements, laying of counter poise and warning tape including civil works for running of AGL cables.	7425	m	Local/ Imported
D70	steel box / can with cover etc. encased in concrete, along the duct including provision of 50 mm tee-off .	3	Nr	Local/ Imported
D71	Primary 6.6 KV grade 6 sq. mm copper airfield lighting cable conforming to IEC / BSS for Series Circuits in the existing uPVC duct complete with end termination.	39800	m	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
D72	Secondary leads 2x4 sq. mm., 1.1 KV grade copper conductor cable including connectors for connection between isolating transformer and light fixtures of AGL system.	425	m	Local/ Imported
D73	PVC insulated, PVC sheathed, Cu un-armoured 1.1 KV grade following control cable in the existing pipe / cable trays including end terminations:	920	m	Local/ Imported
D74	1.1 KV grade, XLPE insulated, PVC sheathed, following Cu conductor cables in the cable duct / pipe / cable tray including end terminations.	3754	m	Local/ Imported
D75	Optical Fibre cables in the existing pipe / duct / cable trays including connections etc.	3170	m	Local/ Imported
D76	ACB LV-2 MV Panel (with out ATS Panel).	1	Nr	Local/ Imported
D77	LP-1 MV Panel.	1	Nr	Local/ Imported
D78	DG Set with 200 A ATS panel and LV-G1 MV panel.	1	Nr	Local/ Imported
D79	PLC controled ALCMS control and monitoring system complete with interface control panels in CCR control room and ATC Tower, UPS of required capacity along with batteries, interconnected power and control cables with termination, laying of fibre optics cable from CCR hall / other equipment.	1	Nr	Local/ Imported
D80	Supply, installation, testing and commissioning of AFL COS panels as per drawing and as required.	1	Nr	Local/ Imported
D81	earthing with 18 mm Dia. 2400 mm long Cu earthing rod.	28	Nr	Local/ Imported
D82	earthing of equipment with 10 nos. 18 x 2400 mm bare copper rods complete with earthing wire in the CCR hall along with ground test point.	2	Nr	Local/ Imported
D83	Copper earth wire of following sizes complete with laying, connection/termination, fixing as per drawing on cable trays, surface, ground, pipe etc.	90	m	Local/ Imported
D84	GI Cable Tray of size 300 x100 mm. complete with steel support from ceiling / wall etc.	75	m	Local/ Imported
D85	high masts made complete with lowering type lantern carriage, light fixtures, obstruction lights, lightning protection, RCC foundation, guard bar, power and control wiring, cable connections, control panel with MCCB/ MCB .	3	Nr	Local/ Imported
D86	VHF Transmitters R.F. power 50 W, in the frequency band 118 to 136.975 MHz with	10	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUAN TITY (QTY)	UNIT OF MEAS URE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	synthesizer, channel spacing 25 KHz, Digital multi mode optional.			
D87	VHF Receiver: Frequency band 118 to 136.975 MHz with channel spacing 25 KHz. Digital Multi mode optional.	10	Nr	Local/ Imported
D88	Antenna system and R.F. cable Omni directional, stacked dipole / Whip antenna system for 10 Tx. / Rx, with or without multi-couplers. The length of each R. F. cable shall be 50 meters for above TxS and RxS	1	Nr	Local/ Imported
D89	Remote control units and Head Sets : Remote control units for above Tx / Rx and light weight head sets	15	Nr	Local/ Imported
D90	Spares for two years for VHF 50 W set.(1 pc)	1	Nr	Local/ Imported
D91	Portable VHF multi channel Transceiver (Man pack) set: Frequency range 118 to 136.975 MHz (selectable), spacing 25kHz, R. F. power 50 W with battery unit and antenna with required length of R. F. cable. Operation: J3E,R3E,H3E,F1B(FSK)	1	Nr	Local/ Imported
D92	Spares for two years for VHF portable (Man pack) set.	1	Nr	Local/ Imported
D93	HF AM Transceiver 100w, freq range 2-20 MHz, emission J3E,R3E,H3E,F1B(FSK), Synthesizer control with HF Antenna 20m high and remote control unit, 2 years spare, antenna.	2	Nr	Local/ Imported
D94	UPS of 10 KVA in the Equipment Room for VHF/ HF Tx. and Rx.	1	Nr	Local/ Imported
D95	Installation, test and commissioning of VHF / HF Transmitter / Receiver Sets. (complete unit)	1	Nr	Local/ Imported
D96	Small Tower Voice Com System (STVC)/ VCCS	1	Nr	Local/ Imported
D97	UPS of 5 KVA rating in the Equipment Room	1	Nr	Local/ Imported
D98	Installation, test and commissioning of Voice Communication Control System.	1	Nr	Local/ Imported
D99	Dual DVTR rack mounted with separate playback unit, 20 channels, Automatic data transfer on CDs after regular intervals, sufficient CDs for 2 years	1	Nr	Local/ Imported
D100	Spares for two years complete with On Job Training: OJT for one batch of 4 persons for 3 days	1	Nr	Local/ Imported
D101	GPS based master clock with 8 slave units, synchronized timing at required working positions, VCCS & DVTR	1	Nr	Local/ Imported
D103	Provision of hand held Radio sets, 10 W Power, preferably from Motorola. Freq. /	10	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	Channel selectable, Two base stations with at least 4 freq. bands			
D105	Control Desk: Metallic Control Desk with cut outs for speakers, VCCS panel, weather displays etc. as per requirement, complete with wiring & cables, two sets of strips board mountings, AGL panel etc. Navaid& FSS Console	2	Nr	Local/ Imported
D106	Installation, test and commissioning of Tower Equipment	2	Nr	Local/ Imported
D107	Signalling Lamp	2	Nr	Local/ Imported
D108	opticrofibre cable of required length for indications for MOS at remote site. Approx. length will be 1 km. Required interfaces & terminations, including commissioning of OFC.	1	Nr	Local/ Imported
D109	DVOR, DME, Localiser, and other accessories.	1	PS	Local/ Imported
D110	full furnished Temporary Control Tower using materila that can be easily assembled and disassembled (Shipping Containers) to the required height.	1	PS	Local/ Imported
D111	chemical emulsion	150	Litres	Local/ Imported
D112	APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt etc.	302	m2	Local/ Imported
D113	water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound etc	7	m2	Local/ Imported
D114	water thinnable cement	55	Kgs	Local/ Imported
D115	Wall painting with acrylic emulsion paint	1095	Litres	Local/ Imported
D116	water proofing cement paint	443	Kgs	Local/ Imported
D117	ceramic glazed floor tiles 300 x 300 mm	7	m2	Local/ Imported
D118	Anti Skid Tile Flooring	21	m2	Local/ Imported
D119	Ist quality ceramic glazed wall tiles	12	m2	Local/ Imported
D120	32 mm thick Jet black mirror	3	m2	Local/ Imported
D121	fire resistant flush hollow metal type doors	12	Nr	Local/ Imported
D122	doors,Windows, Ventilators, view panels etc	18	Nr	Local/ Imported
D123	stainless steel (Grade 304) railing	274	Kgs	Local/ Imported
D124	80x1.25 mm M.S. laths with 1.25 mm thick top cover	15	m2	Local/ Imported
D125	12.5 mm thick tapered edge gypsum moisture resistant board	21	m2	Local/ Imported
D126	Illuminated Wall mounted/Hanging signages	1	Lump Sum	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
D127	3 layer PP-R (Poly propylene Random copolymer) pipes in Charge.	13	m	Local/ Imported
D128	3 layer PP-R (Poly propylene Random copolymer) pipes	13	m	Local/ Imported
D129	C.P. brass bib cock	3	Nr	Local/ Imported
D130	brass stop cock	3	Nr	Local/ Imported
D131	uPVC pipes	50	m	Local/ Imported
D132	trap of self cleansing design with screwed down or hinged grating with or without vent arm complete	3	Nr	Local/ Imported
D133	125 mm dia 3 mm thick stainless steel grating with frame for uPVC floor traps or drain of required pattern	3	Nr	Local/ Imported
D134	125 x 125 mm square stainless steel cockroach trap consisting of 0.45 mm thick inner and outer cups and 1.00 mm thick trap grating with ring to be fixed inside uPVC P traps with cement concrete.	1	Nr	Local/ Imported
D135	stone slab table rubbed, edges rounded and polished of size 75 x 50 cm deep and 1.8 cm thick fixed in urinal partitions	2	m ²	Local/ Imported
D136	wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets	1	Nr	Local/ Imported
D137	PTMT Bottle Trap	1	Nr	Local/ Imported
D138	mirror	1	m ²	Local/ Imported
D139	toilet paper holder	1	Nr	Local/ Imported
D140	PTMT liquid soap container	1	Nr	Local/ Imported
D141	white / off-white color European type water closet with concealed 'P' or 'S' trap, automatic flushing cistern & fittings Standard size C.P. bolts, nuts, C.I. chair or other hanging / fixing arrangements with multiconnector to mains, solid plastic seat with lid, C.P. brass hinges and rubber buffers:	1	Nr	Local/ Imported
D142	C.P. brass ablution health faucet assembly with 1.2 m long braided PVC hose with mounting brackete.	1	Nr	Local/ Imported
D143	white color urinal with manually flushing cistern & fittings Standard size C.P. brass flush pipe, spreaders with unions & clamps(all in C.P.brass) with waste fitting, outlet grating and other couplings in C.P. brass including painting and fitting etc.	1	Nr	Local/ Imported
D144	15 mm dia C.P. swan neck sink Mixer	1	Nr	Local/ Imported
D145	junction trap	2	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
D146	hand dryer with approved quality and with all fittings complete.	1	Nr	Local/ Imported
D147	C.P. brass long body bib cock	1	Nr	Local/ Imported
D148	SS Coat Hanger	2	Nr	Local/ Imported
D149	Non Essential Switch Board / Panel in Buildings complete with following items i.e. Incomer, Metering, Bus Bars, Outgoing etc.	1	Nr	Local/ Imported
D150	Essential Switch Board / Panel in Buildings complete with following items i.e. Incomer, Metering, Bus Bars, Outgoing etc.	1	Nr	Local/ Imported
D151	11 kV, SF-6 switch board panel complete with all accessories, interconnection, earthing etc. and DIPM with RS 485 Port and 2 DO, as per drawings and as specified comprising of VCBs of following ampere rating and CT ratio:	1	Nr	Local/ Imported
D152	800 KVA, 11KV/415V Power Transformer c/w other standard accessories etc.	1	Nr	Local/ Imported
D153	Diesel Engine operated Electric Generating Set of 400 KVA capacity complete with ATS and / AMF Panel, MS class-C exhaust pipe with accessories and insulation, Battery Charger, concrete foundation etc. all conforming to IEC / BS standard.	1	Nr	Local/ Imported
D154	250KVAR (PFC switchboard / panel) complete with following items i.e. Incomer, Metering, Bus Bars, Outgoing etc	1	Nr	Local/ Imported
D155	1.1 KV grade, Copper Conductor, XLPE Insulated, FRLS (Fire Retardant Low Smoke), armoured cables conforming to BS 6724, BS 7655 and Technical Specifications of the following sizes complete with cable end terminations with double compression gland	3080	m	Local/ Imported
D156	11 KV grade, Copper Conductor, XLPE Insulated, armoured cables conforming to BS Standards and Technical Specifications of 3x70 sq. mm. sizes complete with out door cable end terminations with heat shrinkable jointing kit with all accessories, marking tape, cover bend, route markers etc.	55	m	Local/ Imported
D157	GI (Galvanized Iron) cable trays made of GI sheets continuously connected including bends, reducers etc.	25	m	Local/ Imported
D158	GI steel work for suspension / supporting cable trays	10	Kgs	Local/ Imported
D159	DWC HDPE (Double Wall Corrugated High-density polyethylene) pipe	600	m	Local/ Imported
D160	conducting& wiring for following Light Point	59	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	with 1.5 sq. mm single core, copper FRLS (Fire retardant low smoke) wires along with 1.5 sq. mm copper earth wire including supply & fixing suitable size MS electro galvanised with modular type cover plate, 13 A switch, connections, earthing etc.			
D161	conducting& wiring of following Power Point with 2.5 sq. mm single core, copper FRLS (Fire retardant low smoke) wires along with 2.5 sq. mm earth copper wire including supply & fixing suitable size MS electro galvanised with modular type cover plate, 13 A shrouded socket outlet (shuttered) with 13 A switch	9	Nr	Local/ Imported
D162	conducting& wiring for the power point from DB with 4 sq. mm single core, copper FRLS (Fire retardant low smoke) wires along with 4 sq. mm earth copper wire including, including supply & fixing of 20 A, 3 pin shuttered type socket outlet, indication lamp, MCB in GI Box with cover etc.	3	Nr	Local/ Imported
D163	rectangular uPVC Cable trunking of following sizes including pull boxes as required at site complete with cover having locking arrangement, earthing strips including at joints etc.	45	m	Local/ Imported
D164	GI conduit in surface / recess with junction boxes, pull box, saddles	35	m	Local/ Imported
D165	14 way SPN (Single Pole and Neutral) Light & Power DB's equipped	1	Nr	Local/ Imported
D166	LED light fixtures	53	Nr	Local/ Imported
D167	230 mm sweep, 700 CFM and 1400 RPM exhaust fan	6	Nr	Local/ Imported
D168	Copper strip in pipes / surface / wall / trays etc. with spacers and saddles etc.	140	m	Local/ Imported
D169	unarmoured, stranded copper conductor, FRLS, green coloured cable on wall / cable tray.	25	m	Local/ Imported
D170	earthing station with copper plate earth electrode	12	m	Local/ Imported
D171	50 mm dia DWC HDPE (Double Wall Corrugated High-density polyethylene) pipe	140	m	Local/ Imported
D172	Tercel Model Tz20, Protection Radius 37 meters in Level 1 and upto 58 meters in Level III, Gain in Triggering Time 20 μ Early Streamer Emission (ESE) Lightning Conductor with collect ambient energy through a lower series of electrodes. Timing of the streamer emission controlled with an	1	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUAN TITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	electronic device that detects the lightning and triggers a streamer.			
D173	5 meter elevation Pole of 50mm dia complete with reducer at the top to fix the unit along with Base plate, guying kit, clamps and other hardware and fittings.	1	Nr	Local/ Imported
D174	70 sq. mm copper flexible wire	50	m	Local/ Imported
D175	transient event counter as required.	1	Nr	Local/ Imported
D176	Maintenance free earth pit using 3 nos. of 5/8" dia. Copper-bonded (250 microns) Earthing Electrode of 3 mts. long and shall be interconnected with copper bonded flanges (03 Nos.),bi-metallic u- clamp (01 No.) for taking the earth connection, Earth enhancing compound 50 Kgs and inspection chamber including excavation and refilling etc	2	Nr	Local/ Imported
D177	Test Clamp to connect the down conductor to the earth termination and disconnect the down conductor from the earth termination.	2	Nr	Local/ Imported
D178	Desk top Computer - 6th Generation Intel core i7 with graphic 530 (3.4 Ghz upto 4 Ghz,8 MB cache, 4 cores), 4 GB DDR3 RAM, 1TB HDD, 2 GB DDR3 Graphic Card, Super multi DVD Burner, 4 USB PORT with 21" LED Monitor, 101 Keyboard and Mouse.	1	Nr	Local/ Imported
D179	Management Software	1	Nr	Local/ Imported
D180	1000 VA On line UPS with half an hour backup.	1	Nr	Local/ Imported
D181	EINet Pro 25 for communicating with Digital Meters.	1	Nr	Local/ Imported
D182	Ethernet Gateway	5	Nr	Local/ Imported
D183	Lan Switch having 8 Port	1	Nr	Local/ Imported
D184	CAT6 Cable in cable tray / pipe duct / conduit etc.	650	m	Local/ Imported
D185	chemical emulsion	540	Litres	Local/ Imported
D186	APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt etc	106	m2	Local/ Imported
D187	cement slurry mixed with water proofing cement compound etc	34	m2	Local/ Imported
D188	water thinnable cement primer	153	Kgs	Local/ Imported
D189	Wall painting with acrylic emulsion paint	3058	Litres	Local/ Imported
D190	water proofing cement paint	516	Kgs	Local/ Imported
D191	ceramic glazed floor tiles	34	m2	Local/ Imported
D192	Vitrified tiles	282	m2	Local/ Imported
D193	Granite flooring with 25 mm thick stone, as	110	m2	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	per sample approved by Engineer-in-charge, over 12 mm (average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with etc			
D194	1st quality ceramic glazed wall tiles (thickness to be specified by the manufacturer) of approved make over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) etc	178	m2	Local/ Imported
D195	10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement complete	51	m2	Local/ Imported
D196	32 mm thick Jet black mirror polished bull nosed , premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels etc	8	m2	Local/ Imported
D197	flush hollow metal type doors	27	Nr	Local/ Imported
D198	fire resistant flush hollow metal type doors	12	Nr	Local/ Imported
D199	doors,Windows, Ventilators, view panels	100	Nr	Local/ Imported
D200	12.50 mm thick Toughened frosted glass (Blue Tinted)for partitions assemble with SS hardwares,accessories,fittingsetc	83	m2	Local/ Imported
D201	Automatic Sliding Sensor glass door	1	Nr	Local/ Imported
D202	Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturer's specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm2 etc	20	m2	Local/ Imported
D203	13 mm thick Acrylic sheet Partitions as per specification and drawings for toilet partition including all fittings,and fixtures etc	34	m2	Local/ Imported
D204	stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc.	840	Kgs	Local/ Imported
D205	rolling shutters of approved make, made of	1	Item	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength and M.S. top cover of required thickness for rolling shutters etc			
D206	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete etc	23	Tonne	Local/ Imported
D207	Making Depressed portion 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. Sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement: 3 sand) and a coat of neat cement rounding the edge sand: making and finishing the outlet etc	10	Nr	Local/ Imported
D208	12.5 mm thick tapered edge gypsum moisture resistant board	22	m2	Local/ Imported
D209	Armstrong Optra/Equivalent 20 mm thick False ceiling tiles with frame work, hangers & accessories etc	10	m2	Local/ Imported
D210	Metal Sandwich roof system shall be comprise of described from top to bottom in several layers as Aluminum Profile Standing Seam 65 mm rib height and 400 mm width of STRAIGHT / CURVED profiled panel, manufactured from Aluminum Alloy	433	m2	Local/ Imported
D211	panels of aluminium composite panel cladding	1	Item	Local/ Imported
D212	plain multi-layer thermoclear easy clean type polycarbonate sheet 10 mm thick	1	Item	Local/ Imported
D213	Brick Tile type cladding	1	Item	Local/ Imported
D214	semi (grid) unitized system of structural glazing (with open joints) for linear	84	m2	Local/ Imported
D215	galvanised iron profile sheets	1	Item	Local/ Imported
D216	all Plumbing, Electrical and HVAC facilities	1	PS	Local/ Imported
D217	Fire Tender	1	PS	Local/ Imported
E	Survey Equipment and accessories			
E1	Total station	1	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
E2	Complete set of GNSS RTK system	1	Nr	Local/ Imported
E3	Digital level, WILD NA2002 or 3003 or similar approved type	2	Nr	Local/ Imported
E4	Wooden tripod, heavy duty	1	Nr	Local/ Imported
E5	Aluminium tripod	2	Nr	Local/ Imported
E6	Sectioned fibreglass levelling staff	4	Nr	Local/ Imported
E7	Telescopic pole	5	Nr	Local/ Imported
E8	Quick stand for telescopic pole	2	Nr	Local/ Imported
E9	Circular reflector prisms with holders	5	Nr	Local/ Imported
E10	Triple prism holder	1	Nr	Local/ Imported
E11	Plug-in NiMH battery	3	Nr	Local/ Imported
E12	PCMCIA-ATA flashcard, 16 MB	2	Nr	Local/ Imported
E13	Rapid battery chargers	2	Nr	Local/ Imported
E14	Steel tape, 50 m	2	Nr	Local/ Imported
E15	Steel tape, 25 m	5	Nr	Local/ Imported
E16	Fibre-glass tapes, 50 m	4	Nr	Local/ Imported
E17	Ranging rods, 2.5 m long	12	Nr	Local/ Imported
E18	Optical square	1	Nr	Local/ Imported
E19	Steel hammers (4 kg)	2	Nr	Local/ Imported
E20	Spirit levels for staves	6	Nr	Local/ Imported
E21	Metal pocket tapes (5 m)	10	Nr	Local/ Imported
E22	Surveying umbrella	2	Nr	Local/ Imported
G	Prefab-House, Furniture, Office Equipment			
G1	Prefabricated Building	800	m2	Local/ Imported
G2	Reams of a4 Photocopy Paper	500	box	Local/ Imported
G3	Reams of a3 Photocopy Paper	100	box	Local/ Imported
G4	4 Plate Electric Cooker With Oven and Grill	13	Nr	Local/ Imported
G5	Water dispenser with hot cold functions	5	Nr	Local/ Imported
G6	UPS (Uninterruptible Power Supply)	12	Nr	Local/ Imported
G7	Internet Cable	2000	m	Local/ Imported
G8	Exchange board	6	Nr	Local/ Imported
G9	Router/modem	10	Nr	Local/ Imported
G10	Security camera	40	Nr	Local/ Imported
G11	Television	8	Nr	Local/ Imported
G12	Microwave oven	6	Nr	Local/ Imported
G13	Refrigerator/Freezer	12	Nr	Local/ Imported
G14	Water Treatment Machine and Accessories WT-3000	8	Nr	Local/ Imported
G15	Air Conditioner	30	Nr	Local/ Imported
G16	Washing Machine	10	Nr	Local/ Imported
G17	Safe box	6	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
G18	Electrical Water Heater	20	Nr	Local/ Imported
G19	Solar Water Heater & Accessories	10	Nr	Local/ Imported
G20	Electrical Fan	20	Nr	Local/ Imported
G21	Exercise Utilities	1	Nr	Local/ Imported
G22	Beds	20	Nr	Local/ Imported
G23	Kitchen Utensils and Equipment	10	Nr	Local/ Imported
G24	Ceiling Fans	40	Nr	Local/ Imported
G25	Furniture (Table)	140	Nr	Local/ Imported
G26	Furniture (Desk)	40	Nr	Local/ Imported
G27	Furniture(Shelf)	30	Nr	Local/ Imported
G28	Storage shelves	10	Nr	Local/ Imported
G29	Furniture(Chairs)	120	Nr	Local/ Imported
G30	Furniture(Sofa)	10	Nr	Local/ Imported
G31	Steel filing cabinets	10	Nr	Local/ Imported
G32	Steel general purpose lockable cabinets with shelves	8	Nr	Local/ Imported
G33	Steel drawing cabinets	2	Nr	Local/ Imported
G34	Hand wash basin	24	Nr	Local/ Imported
G35	Washroom (WC) suites	24	Nr	Local/ Imported
G36	Mirrors	24	Nr	Local/ Imported
G37	Stainless shower tray and its shower closure(shower cubical) complete with shower mixer connecting accessories	24	Nr	Local/ Imported
G38	Towel rail	24	Nr	Local/ Imported
G39	Soap dispenser	24	Nr	Local/ Imported
G40	Toilet tissue holder	24	Nr	Local/ Imported
G41	Curtains	100	Nr	Local/ Imported
G42	Lamps	40	Nr	Local/ Imported
G43	Bedsheets	250	Nr	Local/ Imported
G44	Blankets	100	Nr	Local/ Imported
G45	Pillow with Pillow cases	100	Nr	Local/ Imported
G46	Filing trays	15	Nr	Local/ Imported
G47	Facsimile transmitting machine	1	Nr	Local/ Imported
G48	Labor Protection(Gun Boots)	700	Nr	Local/ Imported
G49	Labor Protection(Uniforms)	4000	Nr	Local/ Imported
G50	Reflective Road safety vest	4000	Nr	Local/ Imported
G51	Digital flatbed scanner	1	Nr	Local/ Imported
G52	Electronic calculators	15	Nr	Local/ Imported
G53	Twin hot plates	1	Nr	Local/ Imported
G54	Microwave Oven combi Sage or similar Turntable	2	Nr	Local/ Imported
G55	Paper Shredder	6	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
G56	Anti-Virus Software	20	Nr	Local/ Imported
G57	Cad Drawing Software	2	Nr	Local/ Imported
G58	Micro-Software Office	5	Nr	Local/ Imported
G59	Auto Civil 3d Software	2	Nr	Local/ Imported
G60	Plotter	1	Nr	Local/ Imported
G61	Paper shredder	3	Nr	Local/ Imported
G62	Conference table, minimum 3.6 m x 1.5 m, with 12 chairs	1	Nr	Local/ Imported
G63	Round meeting table, 0.9 m diameter, with 4 chairs	1	Nr	Local/ Imported
G64	Desk, minimum 1.8 m x 0.9 m, with lockable double chest of drawers	1	Nr	Local/ Imported
G65	Desk, minimum 1.5 m x 0.75 m, with lockable single chest of drawers	10	Nr	Local/ Imported
G66	Tables with smooth flat top, minimum 1.8 m x 0.9 m	4	Nr	Local/ Imported
G67	Table for printers and scanner, minimum 1.2 m x 0.6 m	3	Nr	Local/ Imported
G68	Swivel type sturdy and comfortable desk chairs	14	Nr	Local/ Imported
G69	Visitors chairs (standard office chair including meeting room chairs)	20	Nr	Local/ Imported
G70	Table lamps	15	Nr	Local/ Imported
G71	Waste paper baskets	15	Nr	Local/ Imported
G72	White board with accessories	2	Nr	Local/ Imported
G73	Wall boards 2.4 m x 1.2 m	8	Nr	Local/ Imported
G74	Steel filing cabinets, 1300 mm high, 460 mm wide and 600 mm deep, each fitted with four lockable drawers on runners.	6	Nr	Local/ Imported
G75	Steel general purpose lockable cabinets with shelves with at least 1.5 sq.m. shelf area	6	Nr	Local/ Imported
G76	Steel drawing cabinets suitable for storing all contract drawings	2	Nr	Local/ Imported
G77	Filing trays	12	Nr	Local/ Imported
G78	Desktop Computers supplied with UPS	10	Nr	Local/ Imported
G79	Laptop Computers	4	Nr	Local/ Imported
G80	Laser printer for A4 / A3	3	Nr	Local/ Imported
G81	Colour laser printer for A4 / A3	1	Nr	Local/ Imported
G82	Photocopier	1	Nr	Local/ Imported
G83	Facsimile transmitting machine	1	Nr	Local/ Imported
G84	Plotter	1	Nr	Local/ Imported
G85	Digital flatbed scanner, including USB cable.	1	Nr	Local/ Imported
G86	Electronic calculators	12	Nr	Local/ Imported
G87	Handheld GPS (Garmin eMap) or latest	3	Nr	Local/ Imported
G88	Digital camera	2	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
G89	Powerpoint overhead projector	2	Nr	Local/ Imported
G90	Binding machine	2	Nr	Local/ Imported
G91	Paper punches i(1 heavy duty and 11 standard size punch machine)	12	Nr	Local/ Imported
G92	Paper staplers (2 heavy duty and 10 standard size)	12	Nr	Local/ Imported
G93	Paper shredder (heavy duty)	2	Nr	Local/ Imported
G94	Rain gauges	3	Nr	Local/ Imported
G95	Thermometer (max/min)	2	Nr	Local/ Imported
G96	First aid and snake bit kit	2	Nr	Local/ Imported
G97	Fire extinguishers (dry type)	4	Nr	Local/ Imported
G98	Ceiling fans or portable fans as agreed with the Engineer	9	Nr	Local/ Imported
G99	Air conditioners, 12,000 BTU/hr	9	Nr	Local/ Imported
G100	Safe, min. size approx. 0.8 m x 0.5 m x 0.4 m, to be concreted in place (either wall or floor mounted) complete with lock and keys.	1	Nr	Local/ Imported
G101	Refrigerator (minimum 200 litres), one for the Employer's personnel	2	Nr	Local/ Imported
G102	Twin hot plates	1	Nr	Local/ Imported
G103	Microwave Oven combi Sage or similar Turntable	2	Nr	Local/ Imported
G104	Electric kettle, Cuisnart CPK-17 or equivalent, 1500W (1 for Employer)	2	Nr	Local/ Imported
G105	Water dispenser with hot cold functions (heating $\geq 90^{\circ}\text{C}$ and cooling $\leq 10^{\circ}\text{C}$) and rated voltage frequency 220-224-50HZ	3	Nr	Local/ Imported
G106	Thermos jugs, 4.5 litres capacity	3	Nr	Local/ Imported
G107	Set of plates, cups and glasses for 24 persons plus cutlery	1	Nr	Local/ Imported
G108	Kitchen Table (Formica Top)	2	Nr	Local/ Imported
G109	Kitchen Chair 4 No.	8	Nr	Local/ Imported
G110	Dining Table 1 No.	2	Nr	Local/ Imported
G111	Dining Chairs 6 No.	12	Nr	Local/ Imported
G112	Dining Chairs with arms 2 No.	4	Nr	Local/ Imported
G113	Writing Desk (3 drawer) 1 No.	2	Nr	Local/ Imported
G114	Book shelf 1 No.	2	Nr	Local/ Imported
G115	Settee (3 cushions) 1 No.	2	Nr	Local/ Imported
G116	Easy Chairs 4 No.	8	Nr	Local/ Imported
G117	Coffee Tables 2 No.	4	Nr	Local/ Imported
G118	Sideboard 2 No.	4	Nr	Local/ Imported
G119	Beds, double with inner-spring mattress 2 No.	4	Nr	Local/ Imported
G120	Beds, single with inner-spring mattress 3 No.	6	Nr	Local/ Imported
G121	Pillows 10 No.	20	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
G122	Side Tables 5 No.	10	Nr	Local/ Imported
G123	Dressing Tables with mirrors 2 No.	4	Nr	Local/ Imported
G124	Dressing Table Stools 2 No.	4	Nr	Local/ Imported
G125	Chest of Drawers 3 No.	6	Nr	Local/ Imported
G126	Bedside Chairs 5 No.	10	Nr	Local/ Imported
G127	Bathroom Cabinet with Mirror 1 No.	2	Nr	Local/ Imported
G128	Bathroom Stool 1 No.	2	Nr	Local/ Imported
G129	Floor Rugs 5 No.	10	Nr	Local/ Imported
G130	Air Conditioner 12,000 BTU/hr 4 No.	8	Nr	Local/ Imported
G131	Refrigerator min. 0.40 m2 (Electric frost free) 1 No.	2	Nr	Local/ Imported
G132	Electric or gas cooker with 4 burners, separate grill and oven 1 No.	2	Nr	Local/ Imported
G133	Fume Hood 1 No.	2	Nr	Local/ Imported
G134	Water Filter 2 No.	4	Nr	Local/ Imported
G135	Dust Bin metal with lid (outdoor type) 1 No.	2	Nr	Local/ Imported
G136	Door Mats 2 No.	4	Nr	Local/ Imported
G137	Vacuum Cleaner (electric) 1 No.	2	Nr	Local/ Imported
G138	Ceiling Fans 3 No.	6	Nr	Local/ Imported
G139	Set of 8 pieces crockery, cutlery, Glassware 1 Set	2	Set.	Local/ Imported
G140	Set of Kitchen utensils 1 Set	2	Set.	Local/ Imported
G141	Set of Pots, pans, etc. 1 Set	2	Set.	Local/ Imported
G142	Deep Freeze cabinet 0.40 m2 1 No.	2	Nr	Local/ Imported
G143	Fire Extinguisher 2 No.	4	Nr	Local/ Imported
G144	Standard lamps 2 No.	4	Nr	Local/ Imported
G145	Table Lamps 2 No.	4	Nr	Local/ Imported
G146	Toilet Tissue Holders 2 No.	4	Nr	Local/ Imported
G147	Waste Baskets 5 No.	10	Nr	Local/ Imported
G148	Vacuum Cleaner (electric) 1 No.	2	Nr	Local/ Imported
G149	Mixer (Electric Portable) 1 No.	2	Nr	Local/ Imported
G150	Bedside lights 5 No.	10	Nr	Local/ Imported
G151	Wall lights 6 No.	12	Nr	Local/ Imported
G152	Pelmets and runners all windows	2	Set.	Local/ Imported
G153	Curtains all windows	2	Set.	Local/ Imported
G154	Bedsheets 20 No.	40	Nr	Local/ Imported
G155	Pillow cases 10 No.	20	Nr	Local/ Imported
G156	Blankets 10 No.	20	Nr	Local/ Imported
G157	Towel rails 2 No.	4	Nr	Local/ Imported
G158	Kitchen Table (Formica Top) 1 No.	1	Nr	Local/ Imported
G159	Kitchen Chair 4 No.	4	Nr	Local/ Imported
G160	Dining Table 1 No.	1	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
G161	Dining Chairs 8 No.	8	Nr	Local/ Imported
G162	Sideboard 2 No.	2	Nr	Local/ Imported
G163	Beds, single with mattresses 8 No.	8	Nr	Local/ Imported
G164	Pillows 8 No.	8	Nr	Local/ Imported
G165	Side Table 8 No.	8	Nr	Local/ Imported
G166	Bedside Chair 16 No.	16	Nr	Local/ Imported
G167	Bathroom Cabinet with Mirror 2 No.	2	Nr	Local/ Imported
G168	Bathroom stool 2 No.	2	Nr	Local/ Imported
G169	Electric Fan 8 No.	8	Nr	Local/ Imported
G170	Refrigerator min. 0.40 m2 (Electric or equivalent) 1 No.	1	Nr	Local/ Imported
G171	Fire Extinguisher 4 No.	4	Nr	Local/ Imported
G172	Vacuum Cleaner 1 No.	1	Nr	Local/ Imported
G173	Electric Cooker with 4 burners, separate large grill and oven 1 No.	1	Nr	Local/ Imported
G174	Water Filter 1 No.	1	Nr	Local/ Imported
G175	Dust Bin Metal with Lid (outdoor type) 1 No.	1	Nr	Local/ Imported
G176	Door Mats 2 No.	2	Nr	Local/ Imported
G177	Ceiling Fans 2 No.	2	Nr	Local/ Imported
G178	Set of 10 pieces crockery, cutlery, glassware 1 Set	1	Set.	Local/ Imported
G179	Set of Kitchen utensils 1 Set	1	Set.	Local/ Imported
G180	Set of Pots, pans, etc. 1 Set	1	Set.	Local/ Imported
G181	Mixer (Electric Portable) 1 No.	1	Nr	Local/ Imported
G182	Wall lights 3 No.	3	Nr	Local/ Imported
G183	Pellets and runners all windows	1	Set.	Local/ Imported
G184	Curtains all windows	1	Set.	Local/ Imported
G185	Bedsheets 32 No.	32	Nr	Local/ Imported
G186	Pillow cases 16 No.	16	Nr	Local/ Imported
G187	Blankets 16 No.	16	Nr	Local/ Imported
G188	Towel rails 3 No.	3	Nr	Local/ Imported
G189	Toilet Tissue Holder 1 No.	1	Nr	Local/ Imported
G190	Consumables for printers (Cartridges and ink)	400	set.	Local/ Imported
G191	Office equipment(pen pencil eraser ruler book sewer bookbinding machine folder file and sealing machine etc)	6,000	Nr	Local/ Imported
J	Laboratory for The Engineer			
J1	Desks, Minimum 1.8 m x 0.9 m, with Lockable Single Chest of Drawers	2	Nr	Local/ Imported
J2	Table with Smooth Flat Top, Minimum 1.8 m x 0.9 m	2	Nr	Local/ Imported
J3	Table Lamps	4	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J4	Swivel Type Desk Chairs	4	Nr	Local/ Imported
J5	Visitors Chairs	4	Nr	Local/ Imported
J6	Waste Paper Baskets	2	Nr	Local/ Imported
J7	Filing Trays	4	Nr	Local/ Imported
J8	Wall Boards 2.4 x 1.2 m	2	Nr	Local/ Imported
J9	Steel Cupboard with Shelves	2	Nr	Local/ Imported
J10	Steel Filing Cabinet with 4 Lockable Drawers	2	Nr	Local/ Imported
J11	Shelves, 2 m Long	4	Nr	Local/ Imported
J12	Air Conditioner, 12,000 Btu/Hr	4	Nr	Local/ Imported
J13	Portable Fan	2	Nr	Local/ Imported
J14	Work Benches	6	Nr	Local/ Imported
J15	Curing Tanks	2	Nr	Local/ Imported
J16	Stools, 1 m High	8	Nr	Local/ Imported
J17	Stools, 0.4 m High	8	Nr	Local/ Imported
	Compaction			
J18	Compaction Mould, 1 Litre Capacity, Complete with Base Plate And Extension Collar 101.6 Mm Internal Diameter×116.43 Mm High	4	Nr	Local/ Imported
J19	Compaction Hammer, 2.49 Kg, Drop Regulated To 304.8 Mm	4	Nr	Local/ Imported
J20	Compaction Hammer,4.536kg, Drop Regulated To 457.2 Mm	4	Nr	Local/ Imported
J21	Electric Vibrating "Kango" Hammer Fitted with Steel Tamper (BS 1377) with Support Frame	3	Nr	Local/ Imported
J22	Straight Edge, 300 Mm Long, with Handles	18	Nr	Local/ Imported
J23	Steel Tamper (BS 1377) Compatible with The Kango Hammer	6	Nr	Local/ Imported
J24	Compaction Mould, 152.4mm Dia×116.43mm High, Complete with Base Plate And Extension Collar	9	Nr	Local/ Imported
J25	Galvanized Metal Tray,1.0m×0.5m×75mm Deep	18	Nr	Local/ Imported
J26	75mm Brush	9	Nr	Local/ Imported
J27	Semi Automatic Balance, 25 Kg Capacity, Accurate To 1 g, Including Weights	9	Nr	Local/ Imported
J28	20 Mm BS Sieve, 300 Mm Diameter	3	Nr	Local/ Imported
J29	Set of French Curves	6	Nr	Local/ Imported
J30	Stop Clock	9	Nr	Local/ Imported
J31	Organic Content Complete	2	Nr	Local/ Imported
	Density(Sand Replacement Method BS 1377)			

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J32	Metal Containers, 450 Mm Diameter	24	Nr	Local/ Imported
J33	Stainless Steel Tray,305 Mm Diameter	12	Nr	Local/ Imported
J34	Metal Tray with 150 ,, Diameter Hole In The Centre, 300 Mm× 300 Mm Square Or Equivalent Area,40 Mm Deep	12	Nr	Local/ Imported
J35	Metal Tray with 200 Mm Dameter Hole In The Centre, 500 Mm× 500 Mm Square Or Equivalent Area, 50 Mm Deep	12	Nr	Local/ Imported
J36	Steel Pegs for Fixing Tray In Position	200	Nr	Local/ Imported
J37	Sand Pouring Cylinder,150 Mm Diameter	12	Nr	Local/ Imported
J38	Cold Steel Chisel, 20 Mm Dia.×300 Mm Long	24	Nr	Local/ Imported
J39	Cold Steel Chisel, 10 Mm Dia.×250 Long	24	Nr	Local/ Imported
J40	1.5kg Hammer	36	Nr	Local/ Imported
J41	Scoop for Removing Excavated Material From Density Hole,250 Mm Long Handles.	36	Nr	Local/ Imported
J42	100 Mm Soft Brush	12	Nr	Local/ Imported
J43	50 Mm Soft Brush	24	Nr	Local/ Imported
J44	Calibrating Can, 150 Mm Dia.×150 Mm Deep	12	Nr	Local/ Imported
J45	Calibrating Can, 200 Mm Dia.×250 Mm Deep	12	Nr	Local/ Imported
J46	Plastic Container Jars Neck 125 Mm Diameter And 4 Litre Capacity	3	Nr	Local/ Imported
				Local/ Imported
	Density Test (Nuclear Density Method:Aashto t238)			
J47	Nuclear Moisture - Density Gauge(Troxler 3411b Or Similar Approved)	4	Nr	Local/ Imported
J48	Hole Forming Device for The Troxler	12	Nr	Local/ Imported
J49	Guide for The Hole Forming Device	12	Nr	Local/ Imported
J50	Rapid Density Set Complete Incl. Speedy Moisture Tester.	4	Nr	Local/ Imported
	CBR (BS 1377)			
J51	Automatic Cbr Compactor According To BS Or Aashto, Falling Height Adjustable From 300 Mm To 457 Mm, Rammer Weight 2.5 Kg And 4.5 Kg, 50 Mm Diameter Automatic Count Selectors	3	Nr	Local/ Imported
J52	Central Extractor, Complete with 20 Kn Hydraulic Jack And Adaptor for Cbr Projector for 100 Mm And 150 Mm	3	Nr	Local/ Imported
J53	CbrMould, 127 Mm High ×152.4 Mm Dia. Complete with Perforated Base Plate And Extension Collar, 50.8 Mm High	200	Nr	Local/ Imported
J54	Perforated Swell Plate, 150 Mm Dia, with An Adjustable Centre Post of Rust-Proof Metal	200	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	Provided with Lock-Out			
J55	2kg Annular Surcharge Weight	200	Nr	Local/ Imported
J56	Solid Base Plate CbrMould	200	Nr	Local/ Imported
J57	Static Compaction Plug	12	Nr	Local/ Imported
J58	50 Mm, 70 Mm, 100 Mm Distance Piece	6	Nr	Local/ Imported
J59	Disc Lifting Handle	6	Nr	Local/ Imported
J60	Static Compaction Press, 50 Mm Tonnes Capacity, with An Adjustable Daylight Between Plates From 530mm To 250 Mm, Hydraulic Or Mechanical Operation, Hand-Operated	3	Nr	Local/ Imported
J61	Set of Guards for Item 43 Above	3	Nr	Local/ Imported
J62	Cbr Load Frame (Electric And Hand-Operated), with 50 Kn Proving Ring And Complete with All Accessories.	3	Nr	Local/ Imported
J63	Stabilising Bar for Ltem 45 Above.	3	Nr	Local/ Imported
J64	Proving Ring; As In Ltem 45 Above But 28 Kn Capacity	3	Nr	Local/ Imported
J65	Proving Ring; As In Ltem 45 Above But 10 Kn Capacity	3	Nr	Local/ Imported
J66	Penetration Gauge, 0- 25mm	6	Nr	Local/ Imported
J67	Cbr Piston Including Bracket	3	Nr	Local/ Imported
J68	Swell Measurement Tripod, Complete with Gauge Calibrated In 0.01 Mm Divisions	6	Nr	Local/ Imported
J69	Soaking Tank Sufficient for 100 CbrMoulds.	3	Nr	Local/ Imported
J70	Tamping Steel Bar, 13 Mm Diameter, 300 Mm Long	3	Nr	Local/ Imported
	Specified Gravity of Aggregates(BS 812)			
J71	Wire Mesh Basket with Apertures Not Greater Than 6.5 Mm And The Basket To Be Large Enough To Take 2.5 Kg of Aggregate.	3	Nr	Local/ Imported
J72	Stout Water Tight Container In Which The Basket Above Can Be Freely Suspended Under Water	3	Nr	Local/ Imported
J73	Soft Absorbent Cloth (Tea Towel)	60	Nr	Local/ Imported
J74	Shallow Tray of Area Not Less Than 0.065m ²	6	Nr	Local/ Imported
J75	An Airtight Container of Simiar Capacity To The Basket In Ltem 55 Above	3	Nr	Local/ Imported
J76	Pycnometer of 1 Lire Capacity	12	Nr	Local/ Imported
J77	Hairdrier(Electric)	3	Nr	Local/ Imported
J78	a Semi-Automatic 5 Kg Weighing Balance Accurate To 0.1 g of Size And Type To Permit The Basket Containing The Sample To Be Suspended In Water (To Be Supplied Weights)	3	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	Flakiness Index (BS 812)			
J79	Thickness Gauge	6	Nr	Local/ Imported
	Sieve Analysis (BS 1377)			
J80	Set of BS Sieves, 300 Mm Diameter, In Size 75 Mm , 63 Mm, 50 Mm, 37.5 Mm , 28 Mm, 20 Mm, 14 Mm, 10 Mm, 6.3 Mm , 5 Mm And 4 Mm Plus Lid And Receiver.	8	Nr	Local/ Imported
J81	Set of BS Sieves, 200 Mm Diameter , In Sizes 2 Mm, 1 Mm, 0.6 Mm, 0.5 Mm, 0.425 Mm, 0.300 Mm, 0.150 Mm And 0.075 Mm Plus Lid And Receiver.	8	Nr	Local/ Imported
J82	Electric Sieve Shaker	8	Nr	Local/ Imported
J83	BS Sieve,200 Mm Diameter, Size 0.425 Mm And 0.075 Mm	6	Nr	Local/ Imported
J84	1m×1m×75 Mm Deep Galvanised Metal Tray	60	Nr	Local/ Imported
J85	Riffle Box with 50 Mm Slots(BS 1377)	6	Nr	Local/ Imported
J86	Riffle Box with 10 Mm Slots(BS 1377)	3	Nr	Local/ Imported
J87	Specimen Mould Assembly	18	Nr	Local/ Imported
J88	Specimen Extractor	3	Nr	Local/ Imported
J89	Core Cutter Complete	3	Nr	Local/ Imported
J90	Marshall Compactor Complete	3	Nr	Local/ Imported
J91	Marshall Testing Machine Complete, Including Flow Meter	3	Nr	Local/ Imported
J92	Electric Mixer with Isomantle	3	Nr	Local/ Imported
J93	Water Bath	3	Nr	Local/ Imported
J94	200 Mm × 200 Mm × 50mm Deep Steel Baking Trays	30	Nr	Local/ Imported
J95	Pots Suitable for Heating Bitumen	30	Nr	Local/ Imported
J96	Spatulas	15	Nr	Local/ Imported
J97	Dial Thermometers 10 To 210 Deg.c	15	Nr	Local/ Imported
J98	Gloves for Handing Hot Material	60	Pairs	Local/ Imported
J99	Rubber Gloves To Remove Specimens From Water Bath	60	Pairs	Local/ Imported
J100	Flat Bottomed Scoop	6	Nr	Local/ Imported
J101	Ladle for Placing Mixture In Moulds	6	Nr	Local/ Imported
	Percentage Refusal Density Test			
J102	Vibratory Hammer a Minium Power Consumption of 75w Operating At 50 Or 60 Hz Complete with Shanks, Tampers, 8 Moulds And 9 Base Plates	6	Set.	Local/ Imported
	Maximum s.g. of Bitunmous Paving Mixtures(ASTM D2041)			Local/ Imported
J103	Balance of Sufficient Capacity And Sensitivity To Enable Maximum Specific	3	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUAN TITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
	Gravity of Samples of Uncompacted Paving Mixtures To Be Calculated To At Least Four Significantfigures.It Shall Be Equipped with a Suitable Suspension Apparatus To Permit Weighingof The Samples While Suspended Centre of The Pan			
J104	Vacuum Pump	3	Nr	Local/ Imported
J105	Glass Or Metal Container of At Least 1000ml Capacity It Shall Be Sufficiently Strong To Withstand a Partial Vacuum.It Shall Have a Over Fitted with a Rubber Gasket And a Hose Conection.Fine Wire Mesh Shall Cover The Hose Opening To Provent Loss of Fines.	3	Nr	Local/ Imported
	Quantitative Extraction of Bitumen ASTM D2127 And ASTM D95			
J106	Water Bath for Use with Bowl Suitable for Immersing The Bowl And Apparatus for Suspending The Bowl From The Centre of The Scale Pan.	3	Nr	Local/ Imported
J107	Oven Capable of Maintaining Temperature At 100 To 104 Deg.c	3	Nr	Local/ Imported
J108	Flat Pan 300 Mm×200mm×25mm Deep .	3	Nr	Local/ Imported
J109	Balance Capaity 5000 g Accurate To 0.2g	3	Nr	Local/ Imported
J110	Balance Capacity 15000 g Accurate t o 1.0 g	3	Nr	Local/ Imported
J111	Balance Capaity 5000 g Accurate To 1.0g	8	Nr	Local/ Imported
J112	Small Mouth Graduate 1000 MI Capacity	9	Nr	Local/ Imported
J113	Ignition Dish 125 Mm Capacity	6	Nr	Local/ Imported
J114	Desiccator	3	Nr	Local/ Imported
J115	Analytical Balance	3	Nr	Local/ Imported
J116	Centrifuge To Astm e2172	3	Nr	Local/ Imported
J117	Filter Rings for Centrifuge	1500	Nr	Local/ Imported
J118	Reflux Condenser To Astm e95	12	Nr	Local/ Imported
J119	Trichloethylene Reagent Grade	1500	Itr	Local/ Imported
J120	Extractor Fan	3	Nr	Local/ Imported
	Recovery of Bitumen From Solution			
J121	Centrifuge To Aashto t170	3	Nr	Local/ Imported
J122	Centrifuge Tubes	60	Nr	Local/ Imported
J123	Distillation Assembly To Aasthto t170	3	Nr	Local/ Imported
J124	Water Jacketed Condenser	3	Nr	Local/ Imported
J125	Astm Low Distillation Thermometer with Range -2 To 300 Deg. c	6	Nr	Local/ Imported
J126	Gas Flow Meter	3	Nr	Local/ Imported
J127	Corks Drilled As Aashto t170	60	Nr	Local/ Imported
J128	Separator Funnel 125 MI Capacity	3	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUAN TITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J129	Supply of Carbon Dioxide	300	Kgs	Local/ Imported
	Miscellaneous Laboratory Reagents			
J130	Flexing Tubing	150	m	Local/ Imported
J131	Sodium Hexamataphosphate	30	Kgs	Local/ Imported
J132	Sand for Density Test	500	Kgs	Local/ Imported
J133	Calcium Carbide	30	Kgs	Local/ Imported
J134	Sodium Sulphate(Anhydrous Salt)	60	Kgs	Local/ Imported
J135	Sodium Hydroxide(Reagent Grade)	3	Kgs	Local/ Imported
J136	Sulphuric Acid (Concentrated)	2	Itr	Local/ Imported
	Miscellaneous Laboratory Equipment			
J137	Rolling Straight Edge	3	Nr	Local/ Imported
J138	Wheel Barrow	18	Nr	Local/ Imported
J139	Dustpan Brush	12	Nr	Local/ Imported
J140	Shovel	30	Nr	Local/ Imported
J141	Pick Axe with Handle	18	Nr	Local/ Imported
J142	Metal Scoop.Large(150 Mm Wide)	12	Nr	Local/ Imported
J143	Metal Scoop. Medium (100 Mm Wide)	18	Nr	Local/ Imported
J144	Garden Trowel	12	Nr	Local/ Imported
J145	Steel Tray 0.3m×0.3m×0.01m Deep	60	Nr	Local/ Imported
J146	3.5 Kg Hammer	6	Nr	Local/ Imported
J147	7 Kg Hammer	6	Nr	Local/ Imported
J148	Rubber Mallet (1 Kg)	12	Nr	Local/ Imported
J149	Cold Steel Chisel	18	Nr	Local/ Imported
J150	1.0 Metre Straight Edge	9	Nr	Local/ Imported
J151	Oven,Electric Thermostatically Controlled To Any Temperature From 10° To 150°C ,0.225m3 Main Capacity Including Dial Thermometer Range 10°-160°C(BS 1377)	12	Nr	Local/ Imported
J152	As Ltem 214 Above But Gas	6	Nr	Local/ Imported
J153	Single Plate Electric Cooker	6	Nr	Local/ Imported
J154	3 Metre Straight Edge Including Calibratded Wedges	3	Nr	Local/ Imported
J155	Moisture Content Tin,75mm Diameter,Cadmium Plated Or Aluminium with Lids	500	Nr	Local/ Imported
J156	Liquid Limit Device,Complete with 2 Grooving Tools To BS 1377, And Gauge	6	Nr	Local/ Imported
J157	Cone Pentrometer with Test Gauge,AutomaticController,Penetration Test Cup,Metal Straight Edge And Spare Cone	12	Nr	Local/ Imported
J158	500mm×500mm×10mm Glass Plate(BS 1377)	12	Nr	Local/ Imported
J159	Steel Rod 75mm Long ×3.2mm Diameter	6	Nr	Local/ Imported
J160	Palette Knife 200 Mm Long Blade	18	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUAN TITY (QTY)	UNIT OF MEAS URE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J161	Palette Knife 100 Mm Long Blade	18	Nr	Local/ Imported
J162	BS Sieve 300 Mm Diameter,37.5 Mm	3	Nr	Local/ Imported
J163	BS Sieve 300 Mm Diameter,20 Mm	3	Nr	Local/ Imported
J164	BS Sieve 300 Mm Diameter,5 Mm	3	Nr	Local/ Imported
J165	BS Sieve 300 Mm Diameter,0.6 Mm	3	Nr	Local/ Imported
J166	BS Sieve 300 Mm Diameter,0.425 Mm	6	Nr	Local/ Imported
J167	BS Sieve 300 Mm Diameter,0.3 Mm	3	Nr	Local/ Imported
J168	BS Sieve 300 Mm Diameter,0.075 Mm	12	Nr	Local/ Imported
J169	Lid And Receiver for The Each of The Above Seives	3	Set.	Local/ Imported
J170	BS Sieve Brush	3	Nr	Local/ Imported
J171	Measuring Cylinder Set,25ml,100ml,500ml,1000ml,2000ml	9	Set.	Local/ Imported
J172	Glass Jar Capacity 5 Litres with Lid	60	Nr	Local/ Imported
J173	200mm×200mm×20mm Cadmium Plated Or Aluminium Tin	150	Nr	Local/ Imported
J174	Electronic Balance Capacity 1000 g Accurate To 0.01 g	6	Nr	Local/ Imported
J175	Electronic Top-Pan Balance 2500 g Capacity, Sensitive To 0.01g	4	Nr	Local/ Imported
J176	Balance 2000 g Capacity Accurate To 0.1g (Manual) Including Weights	8	Nr	Local/ Imported
J177	Balance 50 Kg Capacity Accurate To 10 g Including Weights	8	Nr	Local/ Imported
J178	Still for Producing Distilled Water	3	Nr	Local/ Imported
J179	Polythene Or Glass 20 Litres Storage Vessels with Tap At The Bottom	3	Nr	Local/ Imported
J180	Stiff Broom	12	Nr	Local/ Imported
J181	Vernier Calipers,150 Mm	3	Nr	Local/ Imported
J182	Vernier Calipers,250 Mm	3	Nr	Local/ Imported
J183	Pestel And Mortar	3	Nr	Local/ Imported
J184	Linear Shrinkage Mould(BS 1377)	30	Nr	Local/ Imported
J185	Average Least Dimension Gauge	3	Nr	Local/ Imported
J186	Lockable Tool Box Containing:1 Pair "Molegrips",2×150 Mm Screw Driver,2×200 Mm Screw Driver,2×300 Mm Screw Driver,2×200 Mm Screw Driver,2×300 Mm Screw Driver,(1 Standard And 1 Phillips Head of Each)Adjustable Spanners 200 Mm And 300 Mm , 1 Pair Roundnose	4	Nr	Local/ Imported
J187	Plastic Or Metal Bucket Including Lid, 10 Litres Capacity	30	Nr	Local /Imported
J188	Polythene Wash Bottle (500 Ml)	18	Nr	Local /Imported
J189	20 Litre Capacity Jerricans Complete with Lid for Storage of Water	60	Nr	Local /Imported
J190	a4 Size Clipboard	30	Nr	Local /Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J191	Thermometer ,Range-50°C To 150°C, Glass(BS 593)	12	Nr	Local/ Imported
J192	Laboratory Thermometer , Range 0° To +250°C (BS 593)	6	Nr	Local/ Imported
J193	Maximum/MinimumThermomter (BS b692)	3	Nr	Local/ Imported
J194	Rain Guage	9	Nr	Local/ Imported
J195	Portable Dial Thermometer + 50°C -+ 250 °C Accurate To ±3% with 0.75 m Long Stem	6	Nr	Local/ Imported
J196	Pocket Dial Gauge Thermometer + 50°C To + 250 °C Accurate To ±3% with 0.1 m Long Stem	12	Nr	Local/ Imported
J197	Hot Plate 200 Mm Diameter with Simmerstat Heat Control Unit	6	Nr	Local/ Imported
J198	5 Litres Capacity Steel Storage Containers with Leak And Dust Proof Lids for Storage of Bitumen Samples	300	Nr	Local/ Imported
J199	450 Mm Diameter × 150 Mm Deep Karais	36	Nr	Local/ Imported
	Concrete:Slump And Cube Manufacture			
J200	Slump Cone,Tamping Rod And Base Board	6	Set.	Local/ Imported
J201	Concrete Cube Mould, 150 Mm × 150 Mm 150mm	90	Nr	Local/ Imported
J202	Soaking Tank for Cubes(Capacity 50 No.)	3	Nr	Local/ Imported
J203	Tamping Steel Bar, 13 Mm Diameter ,300 Mm Long	9	Nr	Local/ Imported
	Concrete:Cube Compression Testing			
J204	Concrete Compression Machine To BS ,1610 Grade a, Electric/Manually-Operated with 300 Mm Gauge,RectangularPlattens ,1650 Kn Capacity.	4	Nr	Local/ Imported
J205	Safety Guard for Equipment In Ltem 189 Above.	4	Nr	Local/ Imported
J206	50 mm Distance Spacer for Ltem 189 Above.	8	Nr	Local/ Imported
J207	70 mm Distance Spacer for Ltem 189 Above.	8	Nr	Local/ Imported
J208	100 mm Distance Spacer for Ltem 189 Above.	8	Nr	Local/ Imported
J209	Mechanical Load Pacer	4	Nr	Local/ Imported
	Aggregates And Chippings			
J210	Sand Equivalent Equipment To Aashto t176 Including a Graduated Plastic Cylinder,RubberStopper,IrrigationTube,Weighted Fill Assembly Siphon Assembly, 85 Ml Tinned Box (57 Mm Dia.),Wide Mouth Funnel (100 Mm Dia.),Stop Clock,Mechanical Shaker And 10 Litr	4	Set.	Local/ Imported
J211	Beaker 250 Ml	6	Nr	Local/ Imported
J212	Thermometer, 0°C To + 50°C	6	Nr	Local/ Imported
J213	Thermometer, 0°C To + 250°C	6	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J214	Reagent Grade Silica Gel,500 g Container	60	Nr	Local/ Imported
J215	Aggregate Crushing Value Apparatus ,130 Mm Nominal Diameter ,Including Plunger And Base Plate	4	Nr	Local/ Imported
J216	Tamping Rod And Metal Measure for Above (BS 812)	4	Set.	Local/ Imported
J217	Transverse Distribution of Spray Test for Bitumen Distributor (Depot Tray Test To BS 1707) Equipment	4	Set.	Local/ Imported
J218	Steel Tray 20 Mm Deep × 0.1 m ² (for Measuring Bitumen Spray Quantity)	15	Nr	Local/ Imported
J219	Purpose Made Detachable Handle 1.5 m Long To Enable The Above Trays To Be Picked Up	6	Nr	Local/ Imported
J220	Parraffin Wax	150	Kgs	Local/ Imported
J221	Gas	4800	Kgs	Local/ Imported
J222	Gunny Sack	7200	Nr	Local/ Imported
J223	Plastic Bag 900 Mm × 450 Mm × 1000 Gauge	12000	Nr	Local/ Imported
J224	Plastic Bag 450 Mm × 300 Mm × 1000 Gauge	6000	Nr	Local/ Imported
J225	Filter Paper 150 Mm Dia. Watman No. 5 (Boxes of 100)	300	Nr	Local/ Imported
J226	Filter Paper 400 Mm Dia. Watman No. 5 (Boxes of 101)	60	Nr	Local/ Imported
J227	Filter Paper 100 Mm Dia. Watman No. 5 (Boxes of 100)	60	Nr	Local/ Imported
J228	Trichloroethylene (205 Litre Drum)	6	Nr	Local/ Imported
J229	Cotton Waste (Or Drying Cloths)	300	Kgs	Local/ Imported
J230	Filter Paper 270 Mm Dia. with 33 Mm Dia. Hole In Centre ,Watman No. 5 (Boxes of 100)	45	Nr	Local/ Imported
J231	Filter Paper 400 Mm Dia. Watman No. 54 (Boxes of 100)	30	Nr	Local/ Imported
J232	Gas Cylinder Compatible with Stove Supplied Under Ltem 27	300	Nr	Local/ Imported
J233	Set of Laboratory Cleaning And Washing Up Equipment.	3	Nr	Local/ Imported
J234	Set of Curtains for All Windows for The office And Laboratory	3	Nr	Local/ Imported
	Preconditioning of Bitumen Samples Prior to Mixing or Testing			
J235	Heating oven	1	Nr	Local/ Imported
J236	Aluminum foil, metal lids	1	Nr	Local/ Imported
J237	Sample Containers	5	Nr	Local/ Imported
	Density of Bituminous Binders			
J238	Balance accurate to 0.01grams	1	Nr	Local/ Imported

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J239	Standardized pycnometers	1	Nr	Local/ Imported
J240	Water bath	1	Nr	Local/ Imported
J241	Thermometer	1	Nr	Local/ Imported
	Flash and Fire Point by Cleveland Open Cup			
J242	Cleveland Open Cup apparatus	1	Nr	Local/ Imported
J243	Square shield	1	Nr	Local/ Imported
J244	Thermometer ASTM11C	1	Nr	Local/ Imported
J245	Barometer	1	Nr	Local/ Imported
	Density and Water Absorption of Aggregates Retrieved on a 4.75 mm Sieve			
J246	Heating oven	1	Nr	Local/ Imported
	Density and Water Absorption of Aggregates Passing the 4.75 mm Sieve			
J247	Pycnometer	1	Nr	Local/ Imported
J248	Vacuum type dessicator	1	Nr	Local/ Imported
J249	Vacuum Pump	1	Nr	Local/ Imported
J250	Metal mould	1	Nr	Local/ Imported
J251	Metal tamper	1	Nr	Local/ Imported
	Indirect Tensile Strength Test			
J252	Typically marshall type test apparatus	1	Nr	Local/ Imported
J253	An indirecet tensile stress loading frame	1	Nr	Local/ Imported
	Determination of Binder Content and Aggregate Grading by Extraction			
J254	Extraction apparatus	1	Nr	Local/ Imported
J255	Electric hot plate	1	Nr	Local/ Imported
J256	Centrifuge with approx.3500 rotations per minute	1	Nr	Local/ Imported
J257	Centrifuge cylinders	1	Nr	Local/ Imported
J258	Steel Rod 75mm Long ×3.2mm Diameter	1	Nr	Local/ Imported
J259	Large flat pan	1	Nr	Local/ Imported
J260	Heat insulated gloves	5	Nr	Local/ Imported
J261	Solvent Proof goves	5	Nr	Local/ Imported
	In situ Density and Moisture content of bituminous layers in-place by nuclear methods.			
J262	Nucleus density instrument	1	Nr	Local/ Imported
	Standard practice for accelerated aging of asphalt binder using a Pressure Aging Vessel (PAV)			
J263	Pressure Aging Vessel (PAV)	1	Nr	Local/ Imported
	Standard test method for determining the rheological properties of asphalt binder using a Dynamic Shear Rheometer (DSR)			

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
J264	Dynamic Shear Rheometer (DSR)	1	Nr	Local/ Imported
	Standard test method for viscosity determination of asphalt binder using Rotational Viscometer			
J265	Rotational Viscometer	1	Nr	Local/ Imported
	Standard method for preparing and determining the density of hot mix asphalt (HMA) specimens by means of the Superpave Gyratory Compactor			
J266	Superpave Gyratory Compactor	1	Nr	Local/ Imported
	Flash and Fire Points by Cleveland Open Cup (more common for asphalt cement used in HMA)			
J267	Flash points test machine	1	Nr	Local/ Imported
J268	Fire points test machine	1	Nr	Local/ Imported
	Determining Rutting Susceptibility of Asphalt Paving Mixtures Using the Asphalt Pavement Analyzer (APA)			
J269	Asphalt Pavement Analyzer (APA)	1	Nr	Local/ Imported
	Viscosity of Asphalts by Vacuum Capillary Viscometer			
J270	Vacuum Capillary Viscometer	1	Nr	Local/ Imported
	Additional equipment in special specification			
J271	Troxler or equivalent Nuclear Field Density Testing Machine, capable of measuring density and air voids in asphalt concrete layers.	2	Nr	Local/ Imported
J272	Speedy Moisture Tester set complete with accessories and supplies of Calcium Carbide.	2	Nr	Local/ Imported
J273	Dynamic Cone Penetrometer (DCP) with adequate supply of disposable cones.	1	Nr	Local/ Imported
J274	Gyratory compactor	1	set.	Local/ Imported
J275	platform scale - 100 kg capacity, sensitive to 20 g.	1	Nr	Local/ Imported
J276	electronic top-pan balance 2 500 g capacity, sensitive to 0.01 g.	2	Nr	Local/ Imported
J277	balances for field use, capacity 5 kg, sensitive to 1.0 g.	2	Nr	Local/ Imported
J278	complete sets of sieves with pans, covers, brushes and electrical sieve shakers - max sieve size 63 mm - plus a sample splitter (Gilson or equivalent) plus sufficient sample bags etc. for field sampling.	3	set.	Local/ Imported
I	Services			
11	Insurance for the Work	1	Contract	Local

Value Added Tax (Exemption) (Rehabilitation and Upgrading of Iringa Airport)(Tanzania National Road Agency (Tanroads))(M/S Sinohydro Corporation Limited)

GN. No. 5 (contd.)

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
12	Vehicle Insurance	1	Contract	Local

S/N	ITEM DESCRIPTION	QUANTITY (QTY)	UNIT OF MEASURE	PLACE OF PURCHASE OF ITEMS (Local or Imported)
13	Insurance for Personnel	1	Contract	Local
14	Transportation	3	Contract	Local
15	Internet	1	Contract	Local
16	Air Ticket	2	Contract	Local
17	Services for construction of the ENGINEER'S ACCOMMODATION and OFFICES	1	Contract	Local
18	Services for HIV/AIDS, STIs, STDs AND CHILD ABUSE,SEXUAL HARRASMENT PREVENTION AND AWARENESS PROGRAMS AND TRAINING	1	Contract	Local
19	Services for ROAD SAFETY IMPROVEMENT, TRAINING AND AWARENESS PROGRAMS	1	Contract	Local
I10	Services for STONE PITCHING, RIPRAP AND GABIONS	3	Contract	Local
I11	Services for ELECTRICAL WORKS	1	Contract	Local
I12	Services for DRILLING BOREHOLE WORKS	1	Contract	Local
I13	Services for STREET LIGHT	1	Contract	Local
I14	Maintenance for Equipment & Vehicles	1	Contract	Local
H	Lubricants			
H1	Engine Oil	300000	Litres	Local/ Imported
H2	Hydraulic Oil	300000	Litres	Local/ Imported
H3	Gear Oil	300000	Litres	Local/ Imported
H4	Grease	800,000	Litres	Local/ Imported
H5	Heat Conducting Oil	150000	Litres	Local/ Imported

Dodoma,
17th December, 2020

PHILIP. I. MPANGO,
Minister of Finance and Planning