**Supreme Suyog Funicular Ropeways Pvt. Ltd.**

**Haji Malang Funicular Railway Project**

1. **WIRE ROPE**

**As per Work Contract No.- 100 dated – 10-07-2013 to Yashita Automotive Engineering Pvt. Ltd. Price Metrix Sheet Sr. No. 12 Item Rope & Sheaves & Sr No. 7 Emergency Rail Clamp**

**Balance cost is Rs. 150 /- Lakhs for Sub Item:-**

1. Main rope 36 mm pretensed compacted, fibre core, anti-twist construction, Lang Lay, Right hand, 6 x 19 or Superior, 1960 N/mm2 wire, galvanized prelubricated .
2. Line Sheaves (rope rollers in UHMW -PE material, diameter 380 mm, width 90 mm with groove of 40 mm dia.
3. Dual Straight roller supports and brackets in Galvanized Mild steel with side adjustments
4. Single Angular roller supports and brackets in Galvanized mild steel with side and angular adjustments.
5. Mounted on bogies in between flanged wheels, Hydraulic release, spring operated, Replaceable brake shoes, Fully Imported.
6. **Boggies and HVAC**

**As per Price Metrix Sheet Sr. No. 6 Item Bogie (Passenger Trolley with Roof Air Conditioners) Balance cost is Rs. 270/- Lakhs for Sub Item:-**

1. Main passenger trolleys frame with 2 slewring bearings
2. 4 car Bogies with arrangements for emergency rail clamp brakes
3. Flanged wheels
4. Flat wheels
5. Rocker, rocker support and bearing support
6. Rope fixing drum and clamps with deflection shoes and safety device, fixing grips
7. Vehicle joints with adjacent vehicles
8. Cabin body with 6 automatic doors, Panoramic windows, 2 manual doors. Insulation, lighting, sound system
9. 36 Seats + 6 hand rails with 24 grips for standing passengers in totally 3 sections in each car Cabin interiors including plastic and upholstery,
10. Roof mounted air conditioning for cabins: Nominated cooling capacity 32,000 kcal/h 37.2kw / 127,000Btu/h; Evaporation Air Flow (0 ESP) 6000 m3/h Condensation Air Flow 8000 m3/h; Fresh Air 1500 m3/h
11. **Lighting and Cabling**

**As per Price Metrix Sheet Sr. No. 3 & 4 Item Cabling & Lighting (Electrification / Transformer Cabins, Control Panels, Battery Backup / DG Set for Traction / DG set for Air Conditioning & Invertor for Lighting Car)**

**Balance cost is Rs. 200/- Lakhs for Sub Item:-**

1. Electrification / Transformer Cabins, Control Panels, Battery Backup
2. MSEB aaproved 800 KVA Transformers Metering, Pole Isolator
3. Distribution and Busbar panel DG changeover switch ACB outgoing feeders for main control panel 800 A, 100 A, 32 A, 32 A, 32 A. Capacitor Panel
4. Main Control Unit and power cabinet, including main PLC and VFD (imported)
5. Supervision monitor and control table with audio / video monitors, PC with graphic front end, panel instrumentation and own UPS, Control cabinet in car with PLC and controllers, operators console in car
6. Lightining for machine room and emergency walkway Cable to Lower Station
7. Auxilary DG of 50 KVA CP50DPS (instead of storage batteries and auxilary VFD control panel to complete any journey in case of simultaneous mains and DG failure at any stage. (this DG will drive auxilary motor of 25 K W by VFD drive through auxilary gear box
8. Earthing puts, earthing strips and other provisions
9. Diesel Generating set for traction
10. 630 KW / 800 KVA silent diesel generating set with CPCB approved acoustic enclosure comprising of cummins make radiator cooled. Diesel engine developing 900 BHP at 1500 RPM. Complete with standard accessories coupled to stamford alternator rated at 630 KW / 800 KVA at 415 volts mounted on channel iron base frame complete with fuel tank of 1000 Ltrs capacity with standard manual control panel and 2 no 12V batteries
11. Diesel generating set for Air conditioning and Invertor for lighting cars
12. Powerica cummins S sereis model CP62.5 D5P 62.5 KVA diesel generating set with CPCB approved acoustic enclosure comprising of Cummins model S3.8 G7 watercooled turbocharged intercooled air diesel engine developing 80 BHP at 1500 RPM. Complete with standard accessories coupled to stamford alternator rated at 50 KW/62.5 KVA at 415 Volts. mounted on channel iron base frame complete with fuel tank of 200 Ltrs capacity with standard manual control panel and 1 nos 12 V battery size 2950mm x 1150mm x 1575mm dry weight: 1681 kg weight with fuel oil app 2000 kg
13. 6 KVA 1 phase invertor with tubular batteries for non - ac loads of cars including lights, ventilation fans, communications, automatic doors and control system.
14. **100 Pillars/ Civil Work**

**As per Price Metrix Sheet Sr. No. Item Piller & Civil Work & for Station Civil Work attached sheet balance cost is Rs. 500/- Lakhs for Sub Item:-**

1. **Piller**
2. Excavation, including pit excavation at track beginning, excavations for column footings, trench excavations for track passings, excavation at track end and all incidental excavations.
3. PCC of all footings and ground slabs
4. Footing as per Column schedule, including special anchorage wherever required.
5. Columns as per column schedule, from 0 to 11 M in height
6. Column caps over columns as per standard design
7. Lower Station & Upper Station Civil Works as per attached sheet.