

Revised ESTIMATE for Train Tunnel

Est 14 January 2013

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CLIENT: c/o GSQUARED PROJECT MANAGEMENT (Pty) Ltd

DATE: 13 MAY 2021

ATTN: D GARCIA

eMAIL: dgat@telkomsa.net

JOB No: E21-0329

FROM: Mena

SITE: Addo Elephant National Park - Addo

Note: This is a **provisional ESTIMATE** of the cost for the supply and installation of floor panels **on information supplied.**

A **final ESTIMATE** is supplied based on the following:

- Site inspection by Shukuma and Contractor/Site agent/Owner.
- Engineer's plan of slab specification + measured 'as-built' on site final lay-out.

DESCRIPTION	AMOUNT	UNITS	
Slab Ref: 200F	1,816.00	m ²	
Slab Ref: 250H+2	765.00	m ²	
Slab Ref: 150F	370.00	m ²	
Slab Ref: -	-	m ²	
Slab Ref: -	-	m ²	
Mesh Ref. -	-	sheets	
Cantilever (type):	-	m	
Core Open -	800.00	m	
Core Closed -	-	m	
Brackets -	-	m	
Beams -	-	m	
Installation -	1.00	sum	
Engineer Fee -	2,951.00	m ²	

TOT. ESTIMATED VALUE	
VALUE	RAND
3,098,729.79	
VAT	464,809.47
TOTAL	3,563,539.26

Included IN TOT. ESTIMATE (excl VAT):	
Mesh for Topping (sum) =	
Beams & Brackets (sum) =	
Rate/m² Excl.vat =	1,050.06

Terms & Conditions - to be read in conjunction with Shukuma Installation Agreement below:

- ESTIMATE VALID FOR 120 DAYS**
- PAYMENT:** Client to sign and email Estimate as a gesture of acceptance. On site "as-built" measurements to be taken on client/contractor's request, after which a Final estimate will be issued. 50% Deposit + proof of payment required prior to panel manufacture unless on Shukuma approved account (**No allowance/s made for retention fees**). Balance of payment + proof of payment is due prior to a delivery/installation date being established.
- DESIGN CRITERIA:** As per Andries Stücker Pr. Eng.
- Thickness and thus the mass of the Shukuma panels are subject to change without notice.
- LAYOUT:** Refer to appointed engineer's panel layout.
- CRANE:** Estimate based on a provisional **30T** crane, **pending site inspection by Shukuma.**
- HEALTH & SAFETY:** Scaffolding, guard-rails, barriers, toe-boards, lifelines, etc., to be supplied and erected by Client/Main contractor (if and where required by Shukuma Flooring), to prevent the fall of any person, material or equipment.

NOTE: Should the original estimated m² decrease, the Rate/m² will be amended.

BANKING DETAILS: Zittlau Eiendomme (Pty) Ltd - Absa – Cheque a/c no: 408 471 2384 - Branch Code 632005
E21- 0329 to be quoted on all bank deposits as reference

NB: Bank charges/fees on cash deposit/s will be added to your account

FLOOR INSTALLATION AGREEMENT & CONDITIONS

Please find herewith our scope of work for the supply and installation of the Shukuma Flooring System for the abovementioned project:

Scope of works includes:

Detailing of the pre-stressed hollow-core slab system (Shukuma slabs) to the Shukuma standards in accordance with consulting engineer's design;

- Manufacturing of the detailed panels;
- Transport of the panels to site;
- Placing of the panels with a provisional mobile crane size as stipulated in Item 6, page 1. In the event that a larger crane might be required to do the placing of certain slabs due to e.g.: access constraints, the additional crane cost will be added to the cost of those specific slabs.
- Grouting of the longitudinal key joints between the panels, (excluding the raw material for the grout, which will be provided, mixed and placed on the slab being grouted, by the Client/Principal contractor).

Scope of works specifically excludes:

- Structural design (done by appointed project consulting engineer);
- Supply and mixing of grouting material;
- Grouting of end joints on slab;
- Props, if required, for reasons out of the ordinary;
- Finishing of the ceiling joints, and reparations to minor defects caused during construction;
- Filling of openings & cut-outs in the slabs;
- Caulking, plastering, and finishing of hollow cores and slab edges on panel ends and sides;
- Caulking between the slab camber (due to pre-stressing) and beam/wall supports;
- Waterproofing;

Conditions:

- **Health & Safety:** Scaffolding, guard-rails, barriers, toe-boards, lifelines, etc., to be supplied and erected by Client/Principal contractor (if and where required by Shukuma Flooring), to prevent the fall of any person, material or equipment;
- The Client/Principal Contractor must ensure that the site surface condition is suitable to support a mobile crane, be clear of building/and other materials, and that access is provided on site for the crane and the transport right next to the structure where the slab/s is/are to be placed (i.e.: within the crane reach);
- The Client/Principal Contractor to ensure that all bearing surfaces are level and finished with a 3:1 smooth and level plaster skin $\pm 15\text{-}20\text{mm}$ thick (if brickwork or concrete);
- Grout materials to be supplied on day of installation, mixed and placed on floor slab by Client/Principal Contractor to the following mix ratio - $1,0\text{m}^3$ fine grit (Dust – 4mm) and 10 x pockets cement per 100m^2 floor area for 200 thick panels + 50% more for 250 thick panels **OR** readymix concrete (3:1 topping mix – 35 MPa);
- Waterproofing incorporated in the screed or topping if and where required, to be done by the Client/Principal Contractor;
- Slip-joints (standard Shukuma slip-joint is double layer 375 Micron dpc plastic) on load bearing concrete/brickwork to be done by Client/Principal Contractor;
- The Client/Principal Contractor must ensure that all beams are suitable to support the Hollowcore panels.
- Shukuma Flooring Systems will not be held responsible for any damage caused by the cranes or transport on the roads, paved areas, infrastructure, etc. in the complex/development;
- Additional installation costs (standing time of cranes and transport) incurred due to inclement weather, deviations from the program or other conditions out of our control, will be for the Client's/Principal Contractor's account;
- A construction program to be submitted to Shukuma, indicating the dates for installation to ensure timely manufacture and delivery. The program must make provision to commence delivery of the panels about 10 working days after site measurement. Shukuma must be notified at least 14 days prior to the programmed installation date of any changes in date (for the purpose of crane, transport and manufacturing arrangements);

FLOOR INSTALLATION AGREEMENT & CONDITIONS (Continued....)

- Installation rate is based on the full structure being constructed on an ongoing basis, as we have allowed for a once-off Crane establishment only;
- Unless COD, the Client/Principal Contractor must be successful with the credit application (if one has been tendered for) submitted to Shukuma Flooring Systems, Port Elizabeth.

If in a complex/estate where there are body corporate rules/regulations, it shall be the responsibility of the Client/Principal contractor to notify/inform Shukuma whether crane/s & articulated 12m trailer/s and horse are allowed entry/access.

Installation dates will depend on the availability of crane/s.

Although we at Shukuma strive to obtain the best soffit finish on the slab, it is sometimes difficult to obtain a soffit that is 100% level, due to the camber in the pre-stressed concrete panels, especially if the design is of such nature that different lengths of panels are placed next to each other.

We trust you find the above in order and ensure you of our best service at all times.

Regards,



M Leo for SHUKUMA FLOORING SYSTEMS

Authorized person's signature of
Acceptance of Estimate, Installation
Agreement & Order for continuing
with panel design

Date: _____