



WireBridge --TarPul -- तारपुल

1. **Principals:** This Contract is between Village Solutions Pvt. Ltd. (VS) and the Jagare Phant TarPul Users Group (Client).

2. **Site Description:** At Jagare Phant on the Bhachowk Khola, within Banjhakhet VDC of Lamjung District. The design, construction plan, and price quotation are based on the Site Evaluation included as Attachment I.

3. **Product:** This TarPul contract includes:

- Stabilization and access structures, footings and anchors
- A 79 meter, 2 wire structure with a mid-span sag of approximately 2.4 meters
- A standard two seat carriage with a gross capacity (including the carriage) of 400 KG
- Instruction on proper maintenance and operation
- A "tune-up" after two to four months
- The Basic Warranty described below
- A prepaid Client Account of Rs 50,000 for service and replacement parts (after year 1).



students bypass bridge in dry season

4. **Client Involvement:** Client will:

- Ensure that the person(s) named here will maintain the TarPul: _____

5. **Price:** This TarPul is offered at the following price on a turn-key basis.

	Jagare Phant TarPul
Village Solutions Price	Rs 10,83,177
VAT @ 13%	Rs 1,40,813
Total E/S Billing	Rs 12,23,990

The terms offered in this Contract are valid until 15 January, 2010. Acceptance of the Contract after that date, or any change to this Contract requested by Client may require a revision of the price. Such changes will require the signatures of both parties.

The cost basis of this Contract assumes that construction will proceed with adequate labor and without civil disturbance. In the event that conditions beyond the control of Village Solutions and Client are likely to cause excessive costs, the parties shall discuss the situation and determine a mutually acceptable strategy.

6. **Payment and Delivery:** The net price of Rs **12,23,990** shall be paid to Village Solutions by Client and its donors, at least half at the time of contract signing, and the balance after the civil construction is completed. As soon as the first payment is received, the first phase (civil work) will be scheduled. The Client will be served in the order of the Contract number: i.e. the first to pay will be first to be served.

After the foundation work is complete and the second payment is received, the second phase (installation of the TarPul) will be scheduled. This must be at least 28 days after the concrete is poured to allow it to cure.

7. **Tune Up** The tune-up will be scheduled and implemented two to four months after the TarPul is installed. The cost for this tune-up is included in the basic TarPul price. No additional Client payment is required for this service.

8. **Basic Warranty** Village Solutions guarantees the mechanical elements of the TarPul system for a period of one year after the date of installation against defects due to faulty workmanship or materials. Village Solutions' only liability shall be for the cost to repair or replace defective parts.

If replacement or repair of any part is required, Client shall give Village Solutions a complete description of the problem. If both parties agree that repair or replacement by Client is practical, Village Solutions will provide Client with the part(s) and will train Client for the task. If the task cannot be managed safely by Client, a Village Solutions representative will make the repair.

The guarantee does not cover defects due to: accidental damage, misuse (e.g. overloading the carriage) or neglect; changes or repairs carried out by unauthorized persons; civil disturbance; subsidence in the supporting platform or soil base; or natural causes such as landslide, fire, flood, or rockfall. In these cases the cost of repair or replacement shall be paid by Client.

9. **Extended Service** In addition to the Basic Warranty (8 above), this Contract includes a pre-payment of Rs 50,000 to a Client Account for service & parts from Village Solutions. Village Solutions will provide Client with a statement each year of the Account balance.

After the Warranty period is past, Client may request Village Solutions' assistance. The cost of labor and materials will be subtracted from the Client Account. This will avoid delays that might happen while the Client seeks funds for the repairs. Client agrees to deposit additional funds to the Client Account to maintain an adequate minimum balance when requested by Village Solutions.

On a service call, the Village Solutions representative will also provide the following services:

- a Review Client's maintenance practices and suggest changes if needed,
- b Test the sag and retension the wires if necessary,
- c Replace defective trolleys or tow rope pulleys,
- d Check and tighten or replace bolts and chain clips where needed,
- e Apply paint where needed (and leave a fresh paint supply),
- f Inspect and recommend to Client any repairs to the foundations.

10. **Disputes:** If a dispute arises between Village Solutions and Client, it will be settled amicably by the parties through arbitration using the Nepal Council of Arbitration Rules. If the parties cannot settle this quickly, each shall nominate one arbitrator, these two arbitrators will jointly nominate a presiding arbitrator, and the three shall form an arbitration tribunal. The decision of the tribunal shall be final and binding on both parties. Each party shall pay the cost of its own arbitrator and half of the cost of the presiding arbitrator.

11. **Representation:** Village Solutions' Nanda Lal Bhandari and Client's representative

(_____) shall be the formal link between the two parties. All communication between Village Solutions and Client shall be between them.

12. **Subcontracts:** Village Solutions may subcontract parts of the project and shall use its best efforts to ensure that the Contract is completed on time, but shall not be responsible for delays or the consequences caused by the subcontractor(s).

Name	_____	_____
Title	_____	_____
Date:	_____	_____
	for Village Solutions	for Client

Attachment I

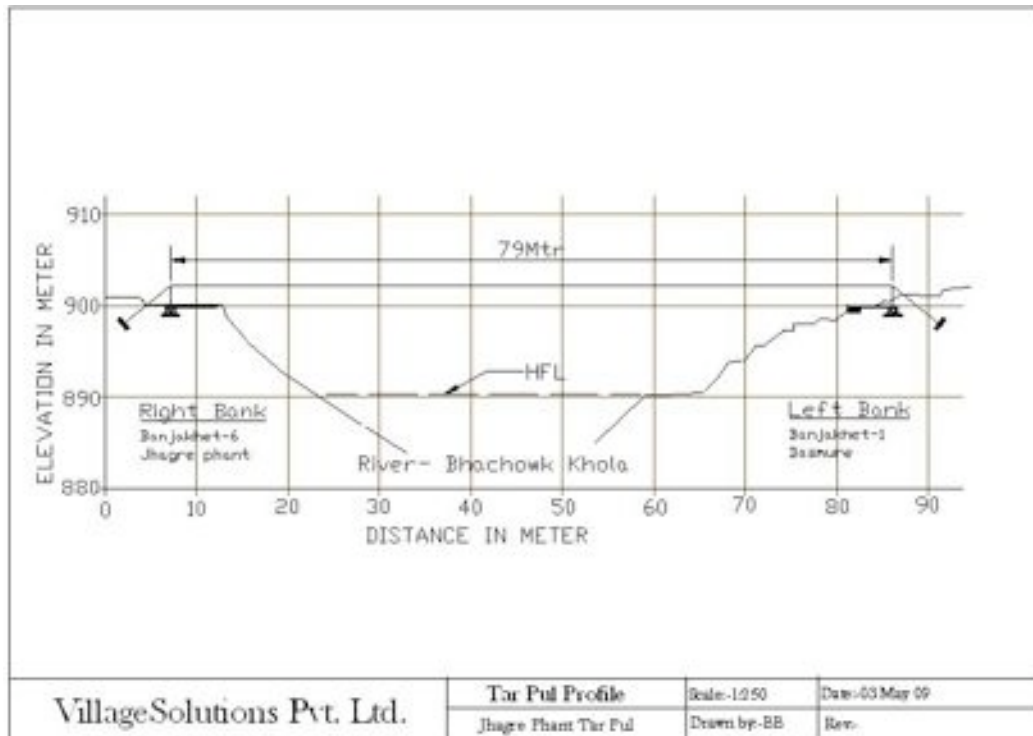
Site Evaluation

The villagers of Banjhakhet, Bansar, Hiletaksar and Bhulbhule VDCs of Lamjung District requested a survey of the Bhachowk Khola for a WireBridge at a site designated "Jagare Phant." Balaram Baral, Village Solutions senior overseer, conducted this survey.

The Khasur Besi school shown here serves 50 students who use this crossing, and another 30 use it to reach high school in Besisahar. The Bhachowk Khola is rain-fed so it rises substantially during the monsoon, when high water levels make this river a torrent four months out of the year. During the rainy season a makeshift bamboo bridge allows passage, but it is dangerous. The alternative requires a walk of 1.5 hours to reach a suspended bridge. This site creates a serious seasonal barrier to much-needed schooling and health care, and limits access to markets and farm land for the local residents. The villagers say that on average ten people are injured and one person dies each year attempting this crossing.



A sketch of the crossing is inserted here. The site requires a 79 meter span, typical for a 2 wire TarPul. The carriage will require 16 wheels (8 trolleys). All will use sealed bearings, thus eliminating greasing and the danger of grease getting on the carriage, rails, and passengers.



The expected freeboard (clearance) above the approximate high flood level will be five meters, which is the usual allowance. This is not expected to present problems at this site.

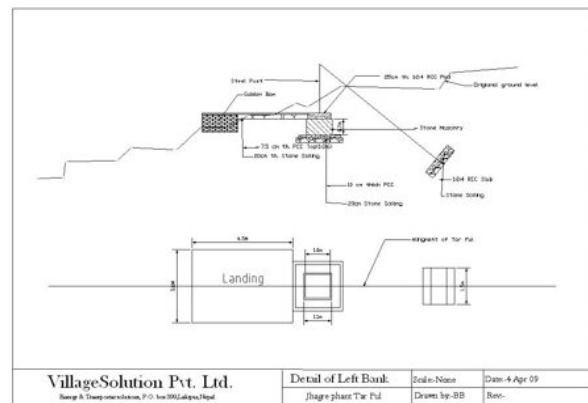
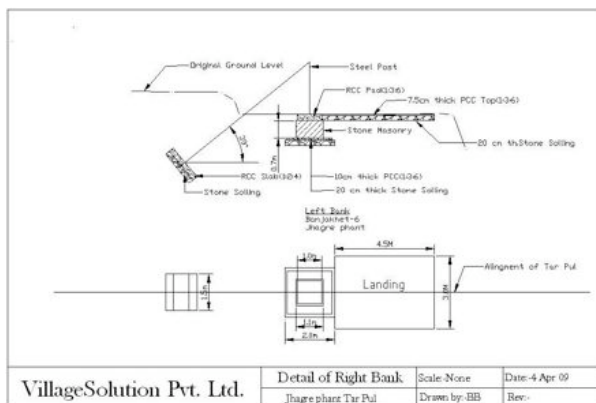
Both sides of the river are mixed soil and rock deposits from the upper slopes. Soil anchors will be used. Technically this is a satisfactory TarPul site, considering the profile and elevation of the

banks. No direct evidence of landslide was observed. No soil subsidence is anticipated, and the maintenance required, if any, should be minor.

Improvements to the approach paths for convenience and safety on both sides of the river are the responsibility of the Client and the host community.

Client shall have the following responsibilities:

- Ensure that the specified quantity and quality of rock, gravel and sand are delivered to the left and right bank sites at the cubic meter rates established during the survey:
- Ensure that qualified labor for construction is available at the daily rates established during the survey
- Establish a friendly, productive, and safe working environment for the laborers and the Village Solutions team. Client agrees to hold Village Solutions harmless from liability for any work-related injuries



Village Solutions responsibilities include:

- Discuss and coordinate with Client and community representatives to acquire tools and arrange for the labor and delivery of local materials (rock, gravel and sand)
- Supply all non-local materials including cement, reinforcing steel, gabion wire boxes, binding wire, tension rods, and bridge components
- Supervise the civil and mechanical work on the project
- Pay the porters and local laborer



Village supporters



Left Bank Jagare Phant



Right Bank Jagare Phant