

**Subject:** Village Roads Resurfacing

Hi Lesley

Hope you are doing well.

Just putting together a cost estimate for doing the road surfacing works through the village. An estimate is the best I can do at the moment due to undefined costs from shipping.

I've only costed for scraping and scarifying the road surface, rolling then capping off the 150mm of type 1 material in a centre camber through our grading box and compacting. I've not taken into account any ditching or filter drains or culvert replacement, this would be done at an additional cost. A rough survey of the roads would be a useful thing to undertake if you want to proceed and we can work out if any additional works are required. I wouldn't think too much probably some ditching. Would need utility maps to be sure we aren't disturbing buried services.

We have spent a great deal of time chasing leads with possible ways to do this, the material from the waterfall quarry isn't the best for the village use and I've been told that permission wouldn't be given for using this due to the large quantities required. Also the road down from the quarry to the village would get trashed by the dumpers and would need considerable work to bring it back to pre-works condition.

The next option would be to open a new quarry in the village somewhere (maybe near where the Dibidil path starts) and then the village would have this resource for any future works. It's where to locate it and getting a good place where the bedrock isn't too hard where it becomes unusable. I'm guessing this would require considerable consultation work, test pits and planning permission then the work to open it up with the potential of blasting it and bring in a large crusher to crush a large amount of materials. All do-able but I'm not sure if the village would want this?

This leaves bring in materials on a barge/landing craft. The boat that did this the last time the "Red Princess" has now been sold and is operating in South America. There are no other suitable vessels in the UK, (we have phoned them all) to take large volumes of loose material on the deck and to be able to get into the slip way at Rum. There is only one that can do it and it's on a job just a south of Rum making a breakwater, shipping materials from Glensanda quarry. This is the best option as they have their own bit at the harbour at Glensanda with a large machine to load themselves. This boat can hold 500-700t depending weather and if they are carrying a machine to unload.

I've priced based on what their day rate is but they have said "plus fuel" so I have no idea what that cost would be, if the boat gets delayed by weather it would also be an extra cost for the boat and also my team waiting on Rum to unload them. I've priced for the smallest load of 500t in a load, they might be able to bring more like 700t in a load which would bring the cost down by not needing to do so many trips. You can see this is a hard thing to give an accurate costing for.

This boat is available to shift loads at the moment as it's local to the island, it's due to go off to other areas next year so might alter the costs and worth thinking about as it could create a lengthy delay before materials are available to do the works.

My costs are fairly clear and only thing would be hold ups with weather and having machines and personnel stranded on the island for any time unallocated. My cost is for unloading the barge and running materials into a stock pile at the harbour, it would be good to clear some space there for this. I would need to have a standing cost for personnel and machines if the barge is delayed and my team have no work to do. I've not priced for accommodation as this would probably be the bunk house and this cost would need to added on to final prices. There are potential savings to be made in our mobilisation costs in the Preliminaries if the work ties in with other work happening on the island when wee are there.

You can see on my quote I have split the costs for doing the main road ands the shore road, If finances allow it would be best to just get it all done in one go and that would be it all done.

It might be best to have a chat over the phone about it and I can come over to see you to go over things on the ground with you if that easier just let me know.

All the best

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