



**REHABILITATION OF ECONOMIC FACILITIES AND SERVICES
(REFS)**

**United States Agency for International Development
Kabul, Afghanistan**

March 8, 2007

To Whom It May Concern

This is to certify that *M/s BSC - C&C "JV"* (A 50% - 50% Joint Venture between *M/s B.Seenaiah & Company (Projects) Ltd.* and *M/s C&C Constructions Private Ltd.*), located *Jay Plaza - Clearview Building, C - 1/B, Old DLF Colony, Gurgaon - 122001 (Haryana), INDIA*, have completed the following work satisfactorily.

Project Name: Rehabilitation of Economic Facilities & Services REFS Program.
Kandahar to Herat Highway Improvement Project - Phase II, Package V - Renovation and Reconstruction Km 456+000 to 557+462.

Contract Number: REFS 02-04-GG45AP-019

Client: *The United States Agency for International Development (USAID)*

Contract Value at Award: US \$40.968 Million

Date of Start: 6th October 2004

Extended Date of Completion: 23rd October 2006

Actual Date of Completion: 18th October 2006

Contract Value at Completion: US \$51.31 Million

Standard Specifications followed: Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP-03) Metric Units
U.S. Department of Transportation

General Conditions of Contract: "Conditions of Contract for Works of Civil Engineering Construction" fourth edition 1987 reprinted in 1992 with further amendments, prepared by FIDIC

Work Sub Contracted: 30% of Contract Value to Local Subcontractors

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The Louis Berger Group, Inc.
Street 13, Building #6, Wazir Akbar Khan, Afghanistan
Tel-Mobiles: 070-284-387; 295-580; 287-747



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Major Quantities of Work Executed:

Road Works

<i>Item</i>	<i>Unit</i>	<i>5th Oct 04 to 31st March 05</i>	<i>1st April 05 to 31st March 06</i>	<i>1st April 06 to 18th Oct 06</i>	<i>Total</i>
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Earthworks

Roadway Excavation	Cum	-	288,831.57	24,756.03	313,587.60
Select Borrow	Cum	-	136,554.18	35,336.09	171,890.27
Embankment Construction	Cum	-	266,536.24	131,823.86	398,360.10
Rock Excavation	Cum	-	162.00	55,597.94	55,759.94

Milling / Rubblization

Removal of Existing PCC Pavement	Sqm	-	22,911.00	1,591.00	24,502.00
Rubblization of Existing PCC Pavement 200mm	Sqm	-	671,854.19	6,839.00	678,693.19
Milling of AC Overlay	Sqm	-	55,450.08	2,547.72	57,997.81

Sub-Base & Base Courses

Crushed Aggregate Base Course	Cum	-	218,111.17	101,788.83	319,900.00
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Asphalt Works

Asphalt Treated Base Course	Mt	-	162,369.54	30,765.45	193,134.99
Asphalt Binder Course	Mt	-	104,505.93	51,583.97	156,089.90
PMB Wearing Course	Mt	-	24,476.68	119,290.81	143,767.49
Double Surface Treatment (DBST - Shoulders)	Sqm	-	-	398,569.40	398,569.40

Road Furniture

Construction Signs	Nos	-	-	159.00	159.00
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Drains/Retaining Walls

Lined Drain: New Construction 8,390.00 m
Masonry Guard Wall: New Construction 2,875.54 m
Retaining Wall: New Construction 1,202.54 m

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Item	Unit	5 th Oct 04 to 31 st March 05	1 st April 05 to 31 st March 06	1 st April 06 to 18 th Oct 06	Total
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Quantities

Concrete (Curb)	Cum	-	-	1,010.68	1,010.68
Stone Masonry	Cum	-	1,531.56	7,694.91	9,226.47

Culverts/Bridges

Culverts:
Box New Construction 1 No., Extension 0 No., Rehabilitation 17 No
Slab New Construction 0 No., Extension 0 No., Rehabilitation 13 No
Pipe New Construction 10 No., Extension 157 No., Rehabilitation 30 No

Bridges:

Construction of Bridge at Km 495+018

Amount: USD 479,039.20

Length: 70.50 m

Foundation: Open Foundation

Super Structure: Pre-cast RCC Girders of 14.10 m span

Construction of Bridge at Km 557+251

Amount: USD 2,351,911.90

Length: 408.90m

Foundation: 28 No Well foundations of Octagonal Shape with 3.5m dia and depth 5.5m to 7m

Super Structure: Pre-cast RCC Girders of 14.10 m span

SL No.	Bridge @	Number of Spans	Span Length (m)	Bridge Length (m)	Type of Foundation	Type of Superstructure	Total Cost (US\$)
1	Km.467+285	4	14.10	56.40	-	Pre-cast RCC Girder	\$182,929.09
2	Km.483+749	7	14.10	98.70	-	Pre-cast RCC Girder	\$294,399.60
3	Km.491+391	6	14.10	84.60	-	Pre-cast RCC Girder	\$251,746.80
4	Km.495+018	5	14.10	70.50	Open Foundation	Pre-cast RCC Girder	\$479,039.20
5	Km.496+365	4	14.10	56.40	-	Pre-cast RCC Girder	\$153,301.20
6	Km.533+867	5	14.10	70.50	-	Pre-cast RCC Girder	\$208,342.80
7	Km.557+251	29	14.10	408.90	Well Foundation	Pre-cast RCC Girder	\$2,351,911.90
8	Km.557+251	29	14.10	408.90	-	Pre-cast RCC Girder	\$2,486,448.81

Steve Zuber



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<i>Item</i>	<i>Unit</i>	<i>5th Oct 04 to 31st March 05</i>	<i>1st April 05 to 31st March 06</i>	<i>1st April 06 to 18th Oct 06</i>	<i>Total</i>
Structural Excavation	Cum	-	1,894.61	4,853.34	6,747.95
Foundation Backfill	Cum	-	620.71	7,790.07	8,410.78
Structural Concrete	Cum	-	1,572.89	7,186.37	8,759.26
Stone Masonry	Cum	-	2,334.13	832.90	3,167.03

During the course of execution the Contractor has performed his work in a professional manner, has used quality materials, maintained quality workmanship and performed all regular testing procedures and quality assurances.

During the course of execution the Contractor has trained more than 100 local persons and employed them as Welders, Electricians, Laboratory Technicians, Mechanics, Bar Benders, Plumbers, Supervisors, Shuttering foremen and Operators of Soil Compactors, Excavators, Cranes, PTR, Tandem Roller, etc. The Contractor has extensively employed the local labor and subcontracted 30% of the Contract Value to the Local Subcontractors there by acting as Mentor Protégé.

The Contractor had an effective Project Management Team and Program System in place during the complete project. The Contractor used Primavera Project Planner (P3) as their Program Management system for scheduling.

This Project was executed in difficult security environment and required huge logistic planning, to maintain the supply of materials and equipment.

The success of the Project required extensive coordination with other Contractors and we found the Contractors cooperation between *The Louis Berger* and *The USAID* to be exceptional.

The Louis Berger looks forward to working with *BSC - C&C 'JV'* on other projects in the future.

For *Louis Berger Group Inc.*

Steve Yahn
Authorized Signatory

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