

APPENDIX - A

A-3: Contract Agreements

パキスタン国 全国総合交通網計画調査（実証事業）

ジールムバレイ道路橋梁復旧工事

入札評価報告書

1. 入札概要

1-1 入札スケジュール

- | | |
|-----------------------------------|-----------------|
| (1) 入札案内発行 (Invitation to Bid) | 2006年6月3日 |
| (2) 入札図書配布 (日本工営イスラマバード事務所) | 2006年6月5日 |
| (3) 入札図書提出締め切り | 2006年6月20日 |
| (4) 入札図書精査 (Bid Evaluation) | 2006年6月20日～7月3日 |
| (5) 入札評価報告書提出 (Evaluation Report) | 2006年7月4日 |

1-2 入札図書受領者

- 1) 大成建設(株)
- 2) 飛鳥建設(株)
- 3) Sambu Construction Co., Ltd.
- 4) Sh Abdul Razzaq & Co.
- 5) Kingcrete Builders
- 6) Namfat Co., Ltd.
- 7) Usmani Associates
- 8) Akhhunzada Fazal Jamil & Co.

1-3 入札図書提出業者

- 1) Sambu Construction Co., Ltd.
- 2) Kingcrete Builders
- 3) Usmani Associates

2. 入札手続き必要書類の確認

	Sambu Construction	Kingcrete Builders	Usmani Associates
オリジナル 1 部 コピー 1 部	有り	有り	有り
入札図書の受領書	有り	有り	有り
入札書	有り	有り	有り
数量書 (BOQ)	有り	有り	有り
Enclosure No. 1	有り	有り	有り
Enclosure No. 2	有り	有り	有り

Enclosure No. 3	有り	有り	有り
Enclosure No. 4	有り	有り	有り
Enclosure No. 5	有り	有り	有り
Enclosure No. 6	有り	有り	有り
Enclosure No. 7	有り	有り	有り

3. 入札図書の評価 (Enclosures No. 1 to No. 7)

再委託業者選定のため PQ は省略するが、入札評価は 2 エンベロップとして、過去の類似案件、財務状況、組織図及び要員、主要機械リスト、施工工程表及び施工計画概要の 6 項目に関する技術評価を行い合否判定する。これは、再委託工事として適切に管理監督するためには、業者が本件の工事工程や工事計画を理解している必要があるためであり、実績や財務状況に加えて、技術評価として資格の有無を判断するものである。

3-1 Enclosure No. 1 - 会社概要

	Sambu Construction	Kingcrete Builders	Usmani Associates
本社	9-1, Namchang Dong, Chung-ku, Seoul, KOREA	160 Street Race Course Road, Rawalpindi PAKISTAN	109, 1st Fl. Progressive Plaza, Beaumont Rd. Karachi, PAKISTAN
電話番号	+82-2- 3706-2114	+92-51- 5584604	+92-21- 5653501
FAX	+82-2- 756-3913	+92-51- 5585862	+92-21- 5683313
営業登録	1948 年、 韓国	1978 年 パキスタン	1988 年 パキスタン

3-2 Enclosure No. 2 - 過去の類似案件

		Sambu Construction	Kingcrete Builders	Usmani Associates
類似案件経験 (工費 50 万ドル以上の道路、 橋梁案件)	1997	1 件	7 件	
	1998		4 件	
	1999	1 件	2 件	1 件
	2000	1 件	1 件	1 件
	2001	2 件	1 件	
	2002	1 件	2 件	
	2003	1 件		
	2004		2 件	1 件
	2005	2 件	4 件	1 件
	2006		5 件	3 件

3-3 Enclosure No. 3 - 財務状況

単位：100 万 US\$

		過去 5 年間の財務状況				
		Sambu Construction				
		2001	2002	2003	2004	2005
1	総資産	497,792	530,861	535,705	686,498	
2	流動資産	232,767	206,505	213,474	291,015	
3	負債総額	309,116	321,407	318,227	407,065	
4	流動負債	191,162	167,167	228,030	256,399	
5	税引き前利益	2,226	4,315	9,836	93,411	
6	利益	1,219	2,532	6,138	26,518	
7	純資産 (1-3)	188,676	209,454	217,478	279,433	
8	運転資金(2-4)	41,605	39,338	-14,556	34,616	

単位：100万US\$

		過去5年間の財務状況				
		Kingcrete Builders				
		2001	2002	2003	2004	2005
1	総資産	0.75	3.93	4.91	9.65	17.79
2	流動資産	0.72	1.11	1.33	6.42	7.94
3	負債総額	0.65	3.02	3.62	8.36	16.50
4	流動負債	0.65	0.75	1.17	5.11	4.56
5	税引き前利益	0.20	0.27	0.06	0.12	0.72
6	利益	0.11	0.18	0.04	0.08	0.45
7	純資産(1-3)	0.10	0.91	1.29	1.30	1.29
8	運転資金(2-4)	0.07	0.36	0.16	1.31	3.38

単位：100万US\$

		過去5年間の財務状況				
		Usmani Associates				
		2001	2002	2003	2004	2005
1	総資産	1.196	1.49	1.81	1.80	7.34
2	流動資産	0.37	1.17	1.29	1.13	3.01
3	負債総額	0.12	0.09	0.35	0.27	1.57
4	流動負債	0.02	0.05	0.30	0.22	1.46
5	税引き前利益	0.04	0.03	0.09	0.54	1.32
6	利益	0.01	0.03	0.06	0.40	0.98
7	純資産(1-3)	1.07	1.04	1.46	1.53	5.77
8	運転資金(2-4)	0.35	1.12	1.00	0.91	1.55

3.4 Enclosure No. 4 - 組織図及び要員

		Sambu Construction	Kingcrete Builders	Usmani Associates
プロジェクト マネージャー	名前	Kyu Cheol Noh	Muhammad Fayyaz Zaeem	なし
	年齢	46 歳	40 歳	
	国籍	Korean	Pakistani	
	専門	土木	土木	
	業務経験	23 年	13 年	
	語学	英語	英語 ウルドゥー	
現場管理者	名前	Nazir Ahned	Mansoor Iqbal	なし
	年齢	38 歳	40 歳	
	国籍	Pakistani	Pakistani	
	専門	土木	土木	
	業務経験	13 年	12 年	
	語学	英語 ウルドゥー	英語 ウルドゥー	
組織図		有り	有り	有り

3.5 Enclosure No. 5 - 主要機械リスト

	Sambu Construction		
	規格	台数	モデル
Bulldozer	23 ton	1	1978
Hydraulic Excavator	1.7 m3	2	1993
Dump Truck	15 ton	5	1994
Wheel Loader	1.7 m3	2	1993
Batching Plant		1	
Transit Mixer		2	
Concrete Mixer		2	1994
Motor Grader	12 feet	1	1979
Asphalt plant	120 ton/hr	1	1979
Static Roller		1	1994
Asphalt Paver		1	1993
Vibratory Roller	10.5 ton	1	1994
P. T. Roller	8.5	1	1994

	Kingcrete Builders		
	規格	台数	モデル
Truck	10 ton	1	1984
Water Tanker	1200 gallon	1	1979
Batching Plant	45 m3/hr	2	1982 - 86
Batching Plant	75 m3/hr	2	2006
Batching Plant	60 m3/hr	1	2006
Concrete Pump	60-80 m3/hr	3	1976 , 78,82
Transit Mixer	8 m3	7	1983 - 85
Transit Mixer	6 m3	11	1988-93
Generator	200 KVA	2	
Generator	125 KVA	1	
Generator	100 KVA	1	
Generator	50 KVA	2	
Vibratory Roller	12.5 ton	2	2006
Vibratory Roller	2.5 ton	1	1995
Vibratory Roller	1 ton	1	1994

	Usmani Associates		
	規格	台数	モデル
Batching Plant	30 m3/hr	1	1988
Transit Mixer	8.0 m3	3	1987-2000
Concrete Pump	60 m3/hr	1	1986
Concrete Mixer	5 m3/hr	1	1986
Hydraulic Crane	20 ton	1	1992
Excavator		2	
Wheel Loader	1.5 m3	2	1990-94
Dump Truck	14 ton	6	1995-98
Rock Drill	25-150 mm	2	
Concrete Pump		2	
Compressor	450 cfm	1	1988
Generator	125 KVA	2	1995
Generator	35 KVA	1	1992
Motor Grader	4.26 m	1	
Tandem Roller		2	
Asphalt Plant	120 ton/hr	1	
Broom		1	
Bitumen Sprayer		1	
P.T. Roller		2	

3.6 Enclosure No. 6 - 施工工程表

	Sambu Construction	Kingcrete Builders	Usmani Associates
1. 仮設工及び準備工	1 ヶ月なので OK	1.5 ヶ月なので OK	1 ヶ月なので OK
2. Bridge No. 1	2007年5月初旬 (8.1ヶ月)に完了予定なので OK	1年は不適當	7ヶ月で完工するので OK
3. Bridge No. 2	2007年3月中旬 (6.5ヶ月)に完工するので OK	10ヶ月は適當であるが、非常に適當とは言えな	8ヶ月で完工するので OK

		い	
4. Bridge No. 3	4 ヶ月で完工するのは疑問	8 ヶ月で完工するのでOK	9 ヶ月で完工するのでOK
5. Slope Protection	8 ヶ月で完工するのでOK	6.5 ヶ月で完工するのでOK	11 ヶ月かかるので不適當
6. Box Culvert	4 ヶ月半で完工するのでOK	6 ヶ月で完工するのでOK	8 ヶ月かかるので不適當
7. Bridge No. 5	7 ヶ月で完工するのでOK	7 ヶ月で完工するのでOK	8 ヶ月で完工するのでOK

3.7 Enclosure No. 7 – 施工計画概要

	Sambu Construction	Kingcrete Builders	Usmani Associates
1. 施工計画概要	有り	有り	有り
2. 品質管理	有り	なし	なし
3. 技能管理	なし	なし	なし
4. 安全管理	なし	なし	なし

4. 技術評価

	Max.	Min.	Sambu Construction	Kingcrete Builders	Usmani Associates
Enclosure No. 2 – 過去の類似案件	15 pt	7 pt	7 pt	8 pt	3 pt
Enclosure No. 3 – 財務状況	10 pt	5 pt	8 pt	6 pt	6 pt
Enclosure No. 4 – 組織図及び要員	14 pt	7 pt	8 pt	7 pt	0 pt
Enclosure No. 5 – 主要機械リスト	14 pt	7 pt	7 pt	7 pt	9 pt
Enclosure No. 6 – 施工工程表	30 pt	15 pt	28 pt	17 pt	28 pt
Enclosure No. 7 – 施工計画概要	17 pt	9 pt	12 pt	6 pt	6 pt
合計	100 pt	50 pt	70 pt	51 pt	52 pt

1.1 Sambu Construction

施工可能な内容であり合格とする。

1.2 Kingcrete Builders

財務状況は Sambu と比較して小規模である。組織図及び要員についてはプロジェクトマネージャーが経験不足である。主要機械に関しては掘削機械（ブルドーザー、エクスカベーター及びダンプトラック）が記載されておらず、土工事方法が不明なため、この点で不合格とする。

1.3 Usmani Associates

過去の類似案件のうち道路プロジェクトと他の土木工事の経験が無い。財務状況は Sambu と比較して小規模である。組織図はあるものの、プロジェクトマネージャー、現場管理者、現場要員に関して記述がないため、この点で不合格とする。

5. 技術評価結果

上記の結果から Sambu Construction のみを合格とし、Financial Proposal を開札することとする。なお、この結果については、パキスタン側 NHA の合意が得られている。

6. 価格評価

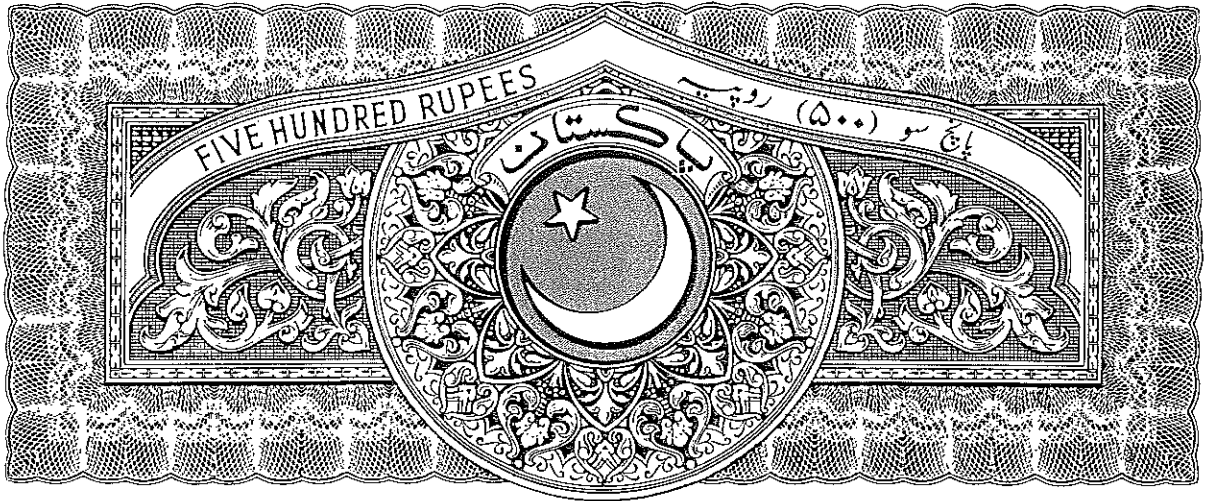
上記の結果を受け、Sambu Construction の Financial Proposal を開札したところ、下記のような結果となった。

入札予定価格 Rs.182,047,141.16

応札額 Rs.181,952,825.18

したがって、本入札は成立した。

以上



CONTRACT AGREEMENT

Reconstruction of Bridges Damaged by October 8 Earthquake on the Jhelum Valley Road

THIS AGREEMENT, made this 25TH day of July 2006, between Nippon Koei Co., Ltd., The Reconstruction of Bridges Damaged by October 8 Earthquake on the Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S Sambu Construction Co. Ltd, (hereinafter referred to as "the Contractor"), incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement
 - (b) The letter of Acceptance
 - (c) Notice to Proceed
 - (d) The Bid
 - (e) The addenda/addendum (if any)
 - (f) The Condition of Particular Application – Part 7
 - (g) The General Conditions of Contract;
 - (h) The Drawings
 - (i) The Specifications
 - (j) The Priced Bill of Quantities
 - (k) Any other documents forming part of the Contract, such as Letter Approved by the Client etc.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirements of the contract Documents is:

Amount in words Pak Rupees. One Hundred Seventeen Million Three Hundred seventy Three Thousand Three Hundred Nineteen. Only (Pak Rupees: 117,373,319/=).

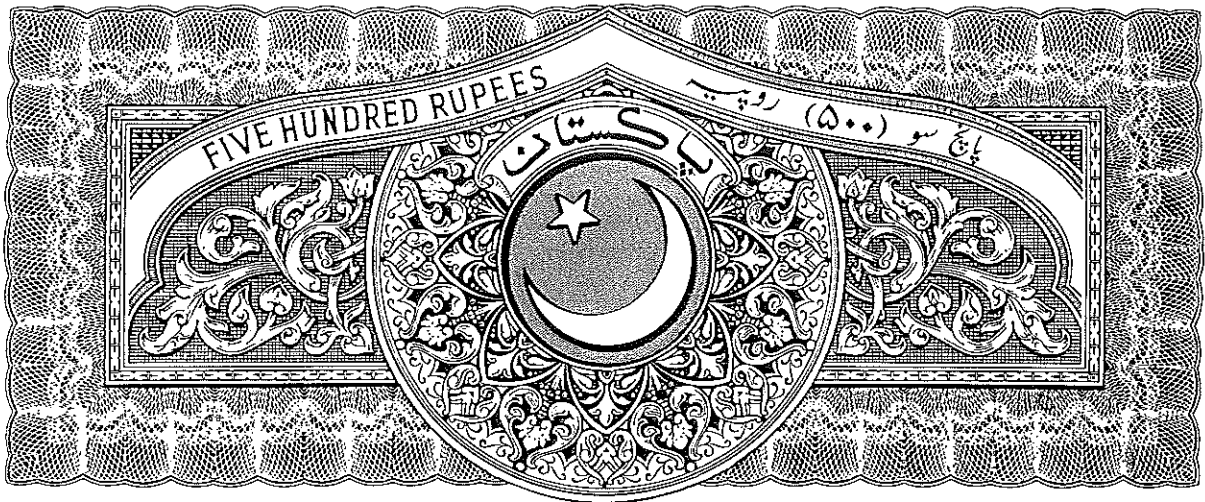
The payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The time for completion of the Works shall be within Twelve (12) months from the Commencement Day.

M. H. [Signature]

Sung Hoon Oh [Signature]



The Defect Liability Period shall be three hundred sixty five (365) days calculated from the date of issue of "Taking-Over Certificate" according to the Conditions of Contract.

7. This Agreement shall become effective upon the latest date when the following conditions have been satisfied:
- Each of the parties has signed this Agreement
 - Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's Bank particulars and Account Number to which the payments due shall be credited against this Project.

Are as follows

Name of Bank:	Habib Bank Ltd,
Name of Branch:	Corporate Centre,
Address of Bank:	Habib Bank Tower, Blue Area, Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction CO., Ltd
Account Number:	50048-8

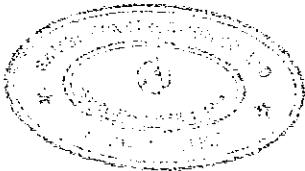
In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:

Client:

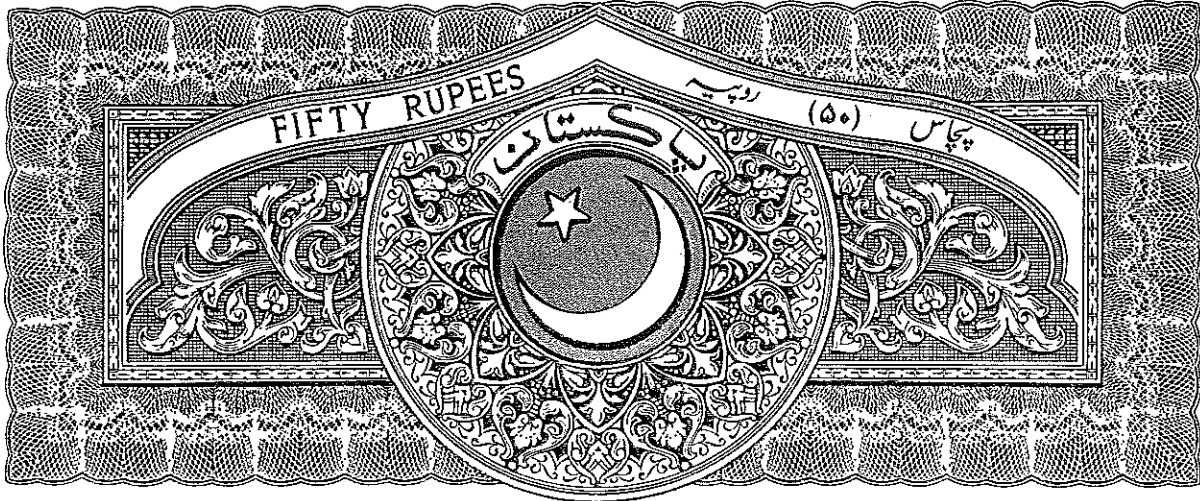
Sung Hoon Oh
Director Pakistan
Sambu Construction Co., Ltd.
Opp. Dera Taj Railway Station
P.O.Box. 90,
Khanewal
Pakistan

Masaru HOMMA
Authorised Representative
The Reconstruction of Bridges Damaged by
October 8 Earthquake on the Jhelum Valley
Road
Jhelum Valley Road Project Office
Nippon Koei Co., Ltd.
c/o NTRC Office
Sector H-8/2, Street 5 & 6, Islamabad,
PAKISTAN



(Witness)

(Witness)



CONTRACT AGREEMENT

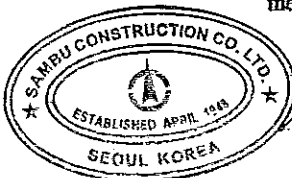
Slope Protection Work from 31+025 to 31+150 on the Jhelum Valley Road

THIS AGREEMENT, made this 2nd day of Nov, 2006, between Nippon Koei Co Ltd. (hereinafter referred to as "the Client") for the project of construction of Slope Protection work from 31+025 to 31+150 on the Jhelum Valley Road of the one part, and M/S Sambu Construction Co.Ltd, (hereinafter referred to as "the Contractor"), incorporated under the laws of the Pakistan with the registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of the any defects therein.

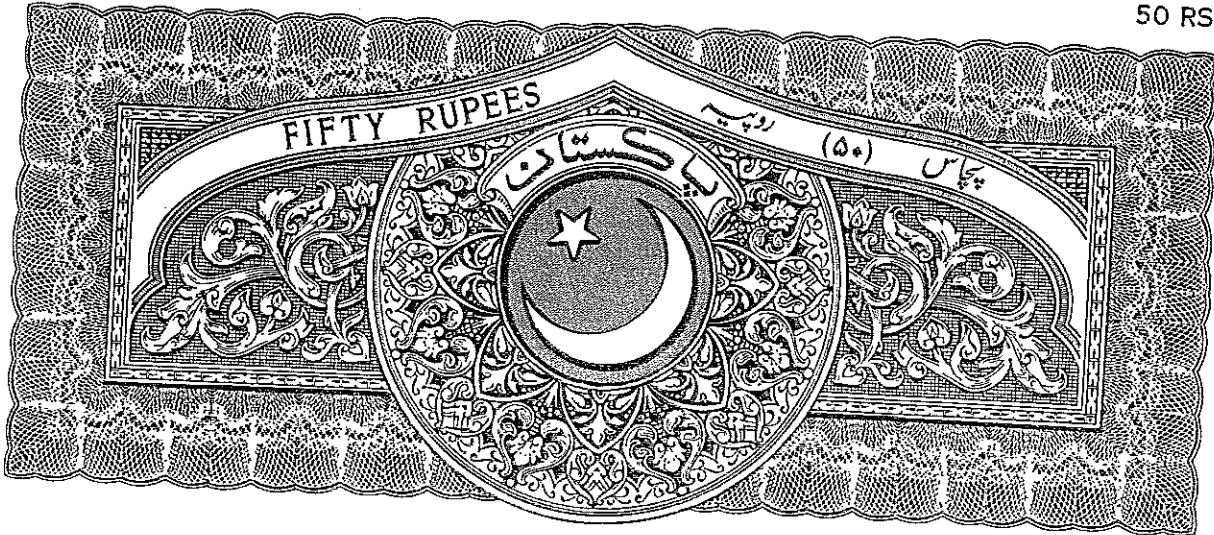
Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement
 - (b) The letter of Acceptance
 - (c) Notice to Proceed
 - (d) The Bid
 - (e) The addenda/addendum (if any)
 - (f) The Condition of Particular Application-Part 7
 - (g) The General Conditions of Contract;
 - (h) The Drawings
 - (i) The Specifications.
 - (j) The Priced Bill of Quantities
 - (k) Any other documents forming part of the Contract, such as Letter Approved by the Client etc.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirements of the contract Documents is:



Sung Hoon Oh

M. H



Amount in words Pak Rupees Fifty million one rupee and seventy nine Paises only (Pak Rupees 50,000,001.79) the payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The time for completion of the Works shall be 31st day of July 2007.

The Defect Liability Period shall be three hundred sixty five (365) days calculated from the date of issue of "Taking-Over Certificate" according to the Conditions of Contract.

7. This Agreement shall become effective upon the latest date when the following conditions have been satisfied.

- a. Each of the parties has signed this agreement
b. Necessary approval on this agreement has been made by the Nippon Koei Co., Ltd..

8. Contractor's Bank particulars and Account Number to which the payments due shall be credited against this Project

Are as following

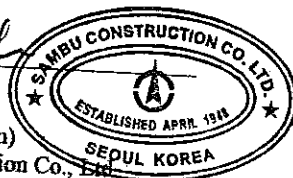
Name of Bank:	Habib Bank Ltd,
Name of Branch:	Corporate Centre
Address of Bank:	Habib Bank Tower, Blue Area, Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction Co., Ltd.
Account Number:	50048-8

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:

Sung Hoon Oh

Sung Hoon Oh
Director (Pakistan)
Sambu Construction Co., Ltd.
Opp. Dera Taj Railway Station
P.O.Box. 90,
Pakistan



Client:

M. Masaru Homma

Masaru Homma
Project Manager
Jhelum Valley Road Project
Nippon Koei Co., Ltd.
B-47, Upper Chatter,
Muzaffarabad, AJK, Pakistan

Witness

Witness

パキスタン国 全国総合交通網計画調査（実証事業）（第2年次）
ジーラムバレイ道路橋梁復旧工事
現地再委託先選定経緯・理由説明書

1. 選定経緯

「パキスタン国 全国総合交通網計画調査（実証事業）」の現地再委託調査として実施するジーラムバレイ道路橋梁復旧工事に係る再委託先の選定経緯及び選定理由に付き、下記の通りご報告申し上げます。

(1) パキスタン国全国総合交通網計画調査（実証事業）（第1年次）の現地再委託先評価選定結果概要

第1回入札

再委託先選定のための第1回の入札は下記の様に実施した。

指名業者：（本邦業者はイスラマバードに事務所を置く2社、ローカル業者はNHAの推薦リストより2社を選定）

大成建設（株）
飛島建設（株）
Ghulam Rasuli & Co. （ローカル）
Karcon (Pvt.) Ltd. （ローカル）

入札実施日程：

平成18年4月12日	入札案内送付
平成18年4月19日	入札書類配布
平成18年5月13日	入札締め切り

この結果、応札して来たのは本邦業者の飛島建設（株）1社のみであった。しかしながら、総事業費4億2千万円に対し、飛島建設（株）の入札額は32億円と8倍近い開きがあり、第1回の入札は不調となった。

高額見積もりの主たる原因は次のようなものであった。

当プロジェクトのメインアイテムであるコンクリート工事（コンクリート、鉄筋、PCワイヤー等）が当方積算の倍額であった。

また、直接工事にかかる間接経費が130%と言う、常識外の比率であった。

のり面保護工（フリーフレーム工法）は全ての機材（フリーフレーム型枠、固定ピ

ン、アンカーボルト、削孔機、モルタル吹き付け機等)及び労務(フリーフレームの職人・工事終了まで)を日本からの輸入とし、職人に対し日本人の通訳を配置していた。

第2回入札

この様な状況のため、フリーフレーム工法をモルタル吹き付け工法に変更し、第2回の入札を下記の様に実施した。

指名業者：(本邦業者はイスラマバードに事務所を置く2社、ローカル業者はNHAの推薦リストより第1回指名業者以外の4社を選定、その他韓国業者1社、マレーシア業者1社を選定)

大成建設(株)

飛鳥建設(株)

Sambu Construction Co., Ltd. (韓国)

NAM FAT Corporation Berhad (マレーシア)

Sh Abdul Razzaq & Co. (ローカル)

Kingcrete Builders (ローカル)

Usmani Associates (ローカル)

Akhunzada Fazal Jamil & Co. (ローカル)

入札実施日程：

平成18年6月03日

入札案内送付

平成18年6月05日

入札書類配布

平成18年6月20日

入札締め切り

この結果、応札してきたのはSambu Construction(韓国)、Kingcrete Builders(ローカル)、及びUsmani Associates(ローカル)の3社であった。

NAM FAT(マレーシア)も応札してきたが、締切日を過ぎていたため失格とした。

入札評価の結果、技術点に於いてもSambuが最高点であり、入札金額も最安値で且つ予算額以内であったため、Sambu Constructionを再委託先と決定し、平成18年7月25日JICAパキスタン事務所にて契約サイン、同日着工命令書を発行した。計画書に基づき平成18年8月1日(1週間以内)に工事着工した。

第1年次契約概要

プロジェクト名

全国総合交通網計画調査(実証事業)

当初契約日(JICA/NK)

2006年4月3日

変更契約日 (JICA/NK)	2006年12月8日
当初契約日 (NK/Sambu)	2006年7月25日
変更契約日 (NK/Sambu)	2007年2月10日
当初工事費 (再委託金額)	227,000,000円 (117,000,000Rs.)
変更工事費 (再委託金額)	189,759,000円 (97,006,417.96Rs.)
当初工期	2006年8月1日～2007年3月31日
変更工期	2006年8月1日～2007年2月20日

平成19年2月20日に第1年次契約工事終了

(2) パキスタン国 全国総合交通網計画調査 (実証事業) (第2年次) 再委託先の選定

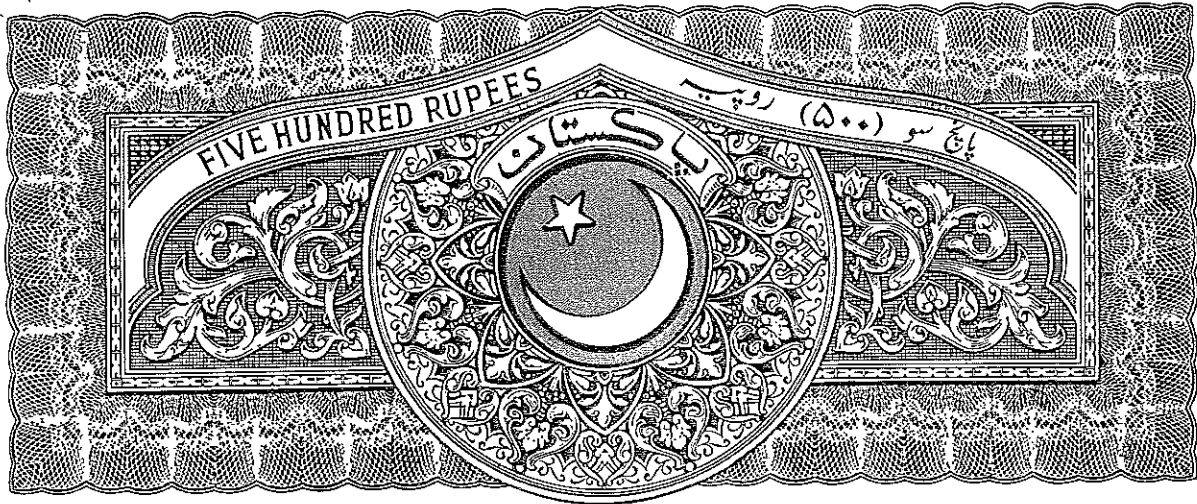
「パキスタン国 全国総合交通網計画調査 (実証事業) (第2年次)」の内、ジーラムパレイ道路橋梁復旧工事に係る再委託先の選定は、下記の理由により、「パキスタン国 全国総合交通網計画調査 (実証事業) (第1年次)」で評価・選定された Sambu Construction を現地再委託業者として選定した。

- ① 本調査は大地震からの復興に係る緊急調査であり、橋梁の修復という内容に鑑みれば継続実施の必要性が高い。
- ② 工期・工費の有効活用と品質の継続性確保
- ③ 品質確保・品質保証及び施工責任の明確化

第2年次契約概要

プロジェクト名	全国総合交通網計画調査 (実証事業)
契約日 (JICA/NK)	2007年2月21日
工事費 (再委託金額)	98,110,000円 (48,617,908.32Rs.)
工期	2007年2月21日～2007年7月31日

以上



CONTRACT AGREEMENT

Pakistan Transport Plan Study (Implementation) (The Second Year)

THIS AGREEMENT, made this 21st day of February 2007 Nippon Koei Co., Ltd., The Study Team for Pakistan Transport Plan Study (Implementation) (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co.Ltd, (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

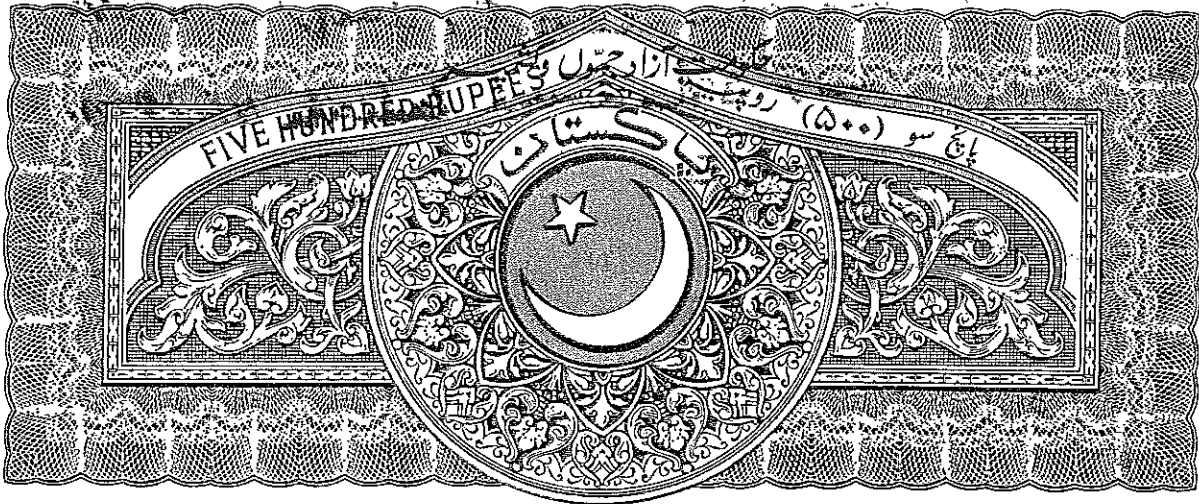
Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witness as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. This Contract Agreement shall be deemed to be read and construed in conjunction with the following documents already mutually signed to constitute its integral component/part.
 - a) The letter of Acceptance
 - b) Notice to Proceed
 - c) The Bid
 - d) The Addenda/Addendum (if any).
 - e) The Condition of Particular Application—Part 7
 - f) The General Conditions of Contract;
 - g) The Drawings
 - h) The Specifications
 - i) The Priced of Quantities
 - j) Any other documents forming part of the Contract such as Letter Approved by the Client etc.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy and any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other some as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:
 Amount in words Pak Rupees Forty Eight Million Six Hundred and seventeen Thousand Nine Hundred and Eight and Paise Thirty Two only (Pak Rupees = 48,617,908.32).
 The payment to the Contractor shall be made in Pak Rupees.
 The payment schedule is described in Article 9 of General Conditions of Contract.
6. The time for completion of the Works shall be within Five (5) months and eight (8) days from 21st February 2007.
 The Defect Liability Period shall be three hundred sixty five (365) days calculated from the date of issue of "Taking-Over Certificate" according to the Conditions of Contract.

Sung Hoon Oh

M. H

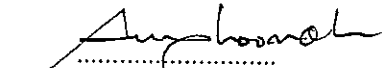



7. This Agreement shall become affective upon the latest date when the following conditions have been satisfied:
- Each of the parties has signed this Agreement.
 - Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.
- Are as follows:
- | | |
|-------------------|---|
| Name of Bank: | Bank Alfala Limited, |
| Name of Branch: | Railway Road Chicha Watni Branch, |
| Address of Bank: | Bank Alfala Limited, Railway Road Chicha Watni (0116) Punjab. |
| Type of Currency: | Pak Rupees |
| Beneficiary: | Sambu Construction CO., Ltd |
| Account Number | 0116-02900090. |

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:

Client:


 Sung Hoor Oh
 Director Pakistan
 Sambu Construction Co., Ltd.
 Opp. Dera Taj Railway Station
 P.O.Box.90,
 Khanewal
 Pakistan

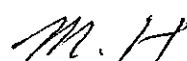
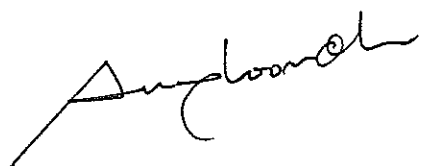

 Masaru HOMMA
 Authorized Representative
 Pakistan Transport Plan Study (Implementation)
 (The Second Year)
 Jhelum Valley Road Project Office
 Nippon Koei Co., Ltd.
 C/o Nippon Koei office
 B-47 Upper Chatter, Muzaffarabad, AJK,
 Pakistan.

.....
 (Witness)

.....
 (Witness)

APPENDIX TO BID

	Sub-Clause	
Ruling Language	3.01	English
Minimum amount of third party insurance	4.01 (5)	As required by Law
Effective date of Insurance	4.01 (5)	Prior to the commencement of the Works
Amount of Performance Security	4.02	10% of the Contract Price
Period for submission of Performance Security	4.03	Date of Substantially completed
Amount of Advance Payment Security	4.04	100% of the Advance Payment
Period for Advance Payment Security	4.05	Refund of Advance Payment completed
Commencement of Works	6.01	7 days after the receipt of Notice to Proceed
Time for Completion of whole Works	6.01	161 days from the commencement date
Liquidated Damages for Delay	6.02	0.1% of the Contract Price for each day of delay
Maximum Amount of Liquidated Damage	6.02	10% of the Total Contract Price
Defect Liability Period	7.01	365days
Percentage of Retention	9.02	5% of the Progress Payment
Limit of Retention Money	9.02	5% of the Contract Price
Time for Contractor's Progress Payment	9.02	14 days after receipt of the Progress Payment Statement
Currency of Payment	9.02	Pak Rupees (Rs.)
Advance Payment	9.03	20.0% of the Contract Price
Time for Advance Payment	9.03	Within 10 days after the mobilization of major construction equipment to the site.



パキスタン国 全国総合交通網計画調査（実証事業）（第2年次）

ジーラムバレイ道路橋梁復旧工事

現地再委託変更契約（第1回）説明書

1. 現地再委託変更契約内容

「パキスタン国 全国総合交通網計画調査（実証事業）」の現地再委託調査として実施するジーラムバレイ道路橋梁復旧工事に係る現地再委託変更契約（第1回）内容について下記の通りご報告申し上げます。

(1) NO.3 橋梁サイトのり面保護工の変更設計内容

平成16年10月8日に発生したパキスタン大地震により損傷した橋梁の中でも、起点部側のアプローチ道路が約200m区間に渡って急峻斜面が連続するNo.3橋梁サイトでは、橋梁の崩壊に加えて、数箇所の斜面崩壊が発生するとともに、崩壊の恐れがある不安定な土塊が斜面上部に分布する危険な状態にあった。

当初のNo.3橋梁復旧計画は、NHAの当該道路設計基準、最小曲線半径30mで改修道路の線形を設定したため、改修道路は山側へ大きくシフトされることとなった。このため、大規模な掘削が必要となり60-80m程の高さの長大切土のり面が出現し、その保護工のためロックアンカー併用のり枠工が計画された。

しかしながら、平成18年4月3日の第1回入札を実施した結果、のり面保護工の施工コストが要因で入札金額と総事業費に大きな開きが生じ、入札は不調となった。

このことから、軟岩相当と評価される固結した礫質土が分布する切土のり面の出現を想定し、のり面保護工として、比較的施工が容易で、パキスタンの技術でも施工可能、かつ比較的容易に技術移転が可能なモルタル吹付けに変更した。

この結果、第2回入札派成立して工事実施に至った。

2006年11月から掘削着手して切土のり面が出現したことから、2007年1月25日および1月30日にかけて切土のり面の表面を観察する地質状況確認を実施し、切土のり面対策工の妥当性を検証した。この結果、当該切土のり面の土質はモルタル吹付け工が適しない（軟岩相当と評価出来ない）ものであると判断された。適用工法としてロックアンカー併用のり枠工の採用も考えられたが、これは建設費を大幅に増大させて、結果として実施できなくなると判断された。

調査団は、対処案として①山側拡幅方針を踏襲する変更（案）と②谷側に拡幅して切土のり面を構築しない変更（案）について基本比較検討を実施し、当初計画の前提条件であった最小曲線半径30mを25mまで小さくして道路を谷側に拡幅して切土のり面を構築しない変更（案）が適切であると判断した。

道路を谷側に拡幅する変更（案）の場合、既存斜面がそのまま残されるが、この既存斜面の表層崩壊の可能性と落石の安定性からみた安全度は中程度、または安定・不安定

どちらとも断定できない程度と判断されたため、植生の回復促進を図ることとした。また、盛土拡幅する側には、深さ 10m から 30m の狭い谷であるため盛土ののり尻の侵食対策として谷止め工、および護岸を兼ねたコンクリート U 型擁壁を計画した。さらに、のり面勾配 1:0.8 で高さ 4-25m の急勾配盛土の安定のため、経済性・材料の調達を考慮し、高価で材料調達の困難なテールアルメ擁壁、ジオテキスタイル補強土壁ではなく、現地で一般的に使用されているガビオン擁壁を採用することとした。

調査団は、NHA 区間の谷側擁壁が崩落した部分を含めた取付け道路谷側拡幅計画を提案した。

(2) 現地再委託変更契約（第 1 回）について

「パキスタン国 全国総合交通網計画調査（実証事業）（第 2 年次）」ジールムバレイ道路橋梁復旧工事に係る再委託契約の内、上記(1) NO.3 橋梁サイトののり面保護工の変更設計内容について、JICA と調査団は具体的な再委託契約の変更内容について協議して、以下の内容で変更契約を交わすことを確認した。

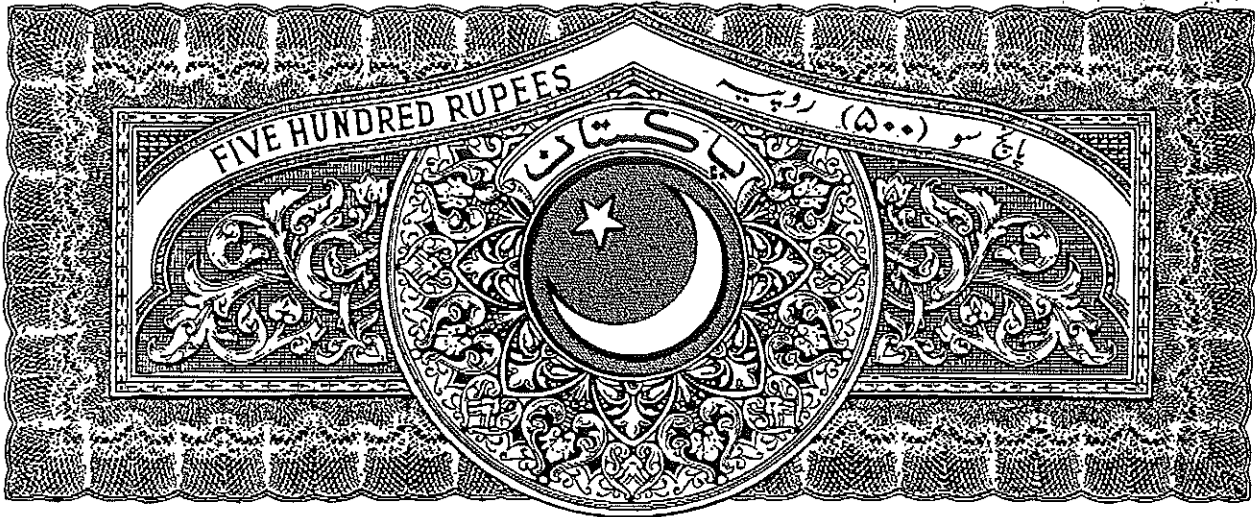
- ① No. 3 橋梁に係る NHA 側の正式文書が出されるまで、再委託金額を暫定額として 78,000,000PKR とする。（文書出状後確定した数量・金額により再度変更契約を結ぶ）
- ② No. 3 橋梁の変更内容を含む、実際に検測された BOQ に基づく支払い条件とする。
- ③ 暫定金額は最終 BOQ に基づいて変更されることを明記する。
- ④ 工期を暫定的に 2008 年 2 月 20 日までとする。

上記、協議結果を踏まえ、調査団は 7 月 31 日付けのコンサルタント契約変更に基づき、Sambu との現地再委託変更契約を締結した。

第 2 年次現地再委託変更契約概要

プロジェクト名	全国総合交通網計画調査（実証事業）
契約日（JICA/NK）	2007 年 2 月 21 日
第 1 回変更契約日（JICA/NK）	2007 年 7 月 31 日
契約日（NK/Sambu）	2007 年 2 月 21 日
<u>第 1 回変更契約日（NK/Sambu）</u>	<u>2007 年 8 月 1 日</u>
工事費（再委託金額）	98,110,000 円（48,617,908.32Rs.）
<u>第 1 回変更工事費（再委託金額）</u>	<u>78,000,000Rs.</u>
工期	2007 年 2 月 21 日～2007 年 7 月 31 日
<u>第 1 回変更工期</u>	<u>2007 年 2 月 21 日～2008 年 2 月 20 日</u>

以上



REVISED CONTRACT AGREEMENT

Reconstruction of Bridges damaged by October 8 Earthquake on Jhelum Valley Road

THIS REVISED AGREEMENT, made this 1st day of August 2007 Nippon Koei Co., Ltd., The Reconstruction of bridges Damaged by October 8 Earthquake on Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co., Ltd. (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O Box No.90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the client is desirous that certain works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein.

Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, VIZ:
 - a) The Contract Agreement
 - b) The letter of Acceptance
 - c) Notice to Proceed
 - d) The Bid
 - e) The Addenda/Addendum (if any)
 - f) The Condition of Particular Application – Part 7
 - g) The General Conditions of Contract
 - h) The Drawings
 - i) The Specifications
 - j) The Priced Bill of Quantities (Original and Revised)
 - k) Any Other documents forming part of the Contract such as Letter Approved by the Client ect.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy and any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the executing and completion of the works and the remedying of defects therein the Contract Price or such other sums as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Provisional Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:

Provisional amount in words Pak Rupees seventy Eight million only (Pak Rupees = 78,000,000/-)

The payment to the Contractor shall be made in Pak Rupees based on the Bill of Quantities prepared based on the actual measurement and the original drawings and supplemental drawings for the No.3 Bridge provided by the Client on 13 July 2007.

The Provisional amount shall be revised based on the Final Priced Bill of Quantities prepared based on the final measurement.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The extended time for completion of the Works shall be upto 20th February 2008.
7. This Agreement shall become affective upon the latest date when the following conditions have been satisfied:
 - a) Each of the parties has signed this Agreement.
 - b) Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.

Are as follows:

Name of Bank:	Habib Bank Ltd,
Name of Branch:	Corporate Centre,
Address of Bank:	Habib Bank Tower Blue Area Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction Co., Ltd
Account Number:	50048-B

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:



Sung Hoon Oh

Sung Hoon Oh
Director Pakistan
Sambu Construction Co., Ltd.
Opp. Dera Taj Railway Station Road
Khanewal, Pakistan

Client:

Yoshihisa YAMASHITA

Yoshihisa YAMASHITA
Authorized Representative
The Reconstruction of Bridges damaged
by Oct.8 earthquake on the Jhelum Valley,
P.O.Box 90, Jhelum Valley Road Project Office

Nippon Koei Co., Ltd.
C/o NTRC Office
Sector H - 8/2, Street 5 & 6
Islamabad, Pakistan

Sung Hoon Oh
(Witness)

Yoshihisa YAMASHITA
(Witness)

NATIONAL HIGHWAY AUTHORITY

27-Mauve Area, G-9/1, Islamabad
Ph: 051-9261208 Fax: 051-9260216

No. (34)/NHA/M(Ops)/07 / 156

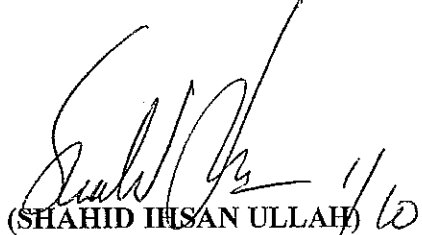
October 1st 2007

→ Mr. Yoshihisa Yamashita
Project Manager
Nippon Koei Co. Ltd
Jhelum Valley Road Project
Muzaffarabad.

Subject: **AGREEMENT FOR SLOPE PROTECTION WORKS AT BRIDGE NO. 03,
JHELM VALLEY ROAD PROJECT FOR RECONSTRUCTION OF
BRIDGES DAMAGED BY OCT 8 EARTHQUAKE.**

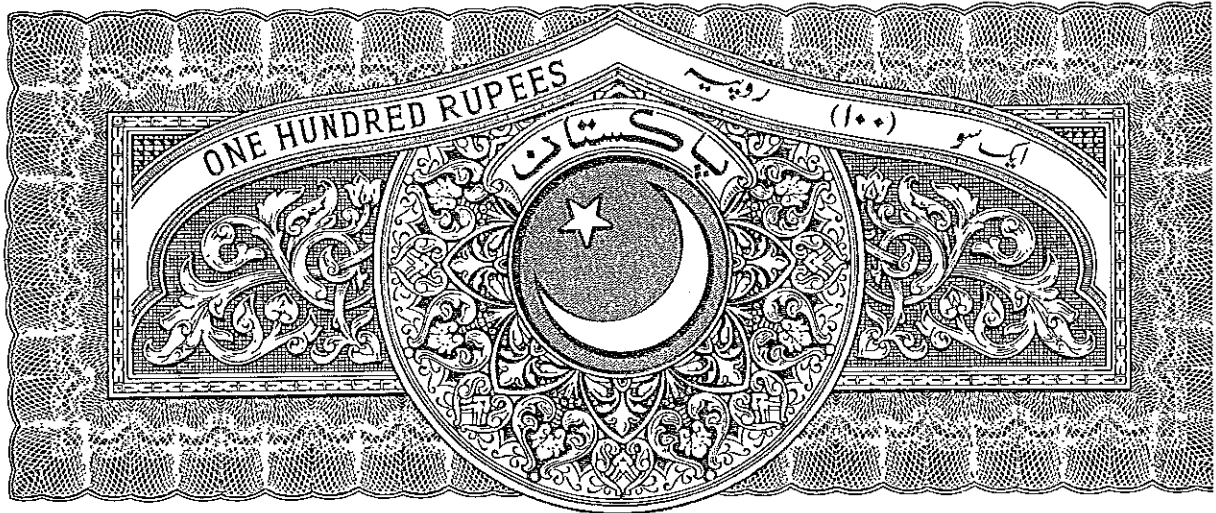
Ref: Your Office letter # 182 dated 13th September 2007.

Please find enclosed herewith a signed copy of the agreement regarding subject matter,
please.


(SHAHID IHSAN ULLAH) 1/10
Staff Officer

C.C:-

- Member (Ops) NHA HQ.



AGREEMENT

**for Slope Protection Work from km 31+025 to 31+150 on the Jhelum Valley Road
Reconstruction of Bridges Damaged by October 8 Earthquake on the Jhelum Valley Road**

This Agreement is made on the day of September, 2007 between National Highway Authority, Government of Pakistan, having an office at 27-Mauve Area, G-9/1, P.O.Box 1205, Islamabad, Pakistan (hereinafter called "the Employer") and Nippon Koei Co., Ltd. having an office at H. No. B-46 Upper Chatter, Muzaffarabad, AJK, Pakistan (hereinafter called "the Consultant") based on the understanding and agreement between the Employer and the Consultant up to date.

WHEREAS

- (a) The Consultant had been assigned as a JICA Study Team by Japan International Cooperation Agency (JICA) to design and prepare tender documents for the Reconstruction of damaged Bridges inclusive of Slope Protection Works from km 31+025 to 31+150 (NHA portion) by October 8 Earthquake along the Jhelum Valley Road Project in Pakistan (hereinafter called the "Project").
- (b) After completing the design and preparation of tender documents, the Consultant has also been assigned by JICA to conduct the Project (excluding the NHA portion) as a JICA Study Team by employing Sambu Construction Co., Ltd., incorporated under the laws of Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh (hereinafter called "the Contractor") as informed by JICA Pakistan Office, letter No. JICA/08-01007/admin/2006 dated August 1, 2006 (copy enclosed).
- (c) Because of the budgetary limitation of JICA, the Employer decided to take up and complete the Slope Protection Works from km 31+025 to 31+150 (NHA portion) with an amount of Pakistani Rupees Fifty Million One and Paisas Seventy Nine only (Pak Rs. 50,000,001.79/-) to be paid by the Employer.
- (d) The Employer had requested the Consultant to sign the contract with the Contractor as the Employer's representative for Slope Protection Work from km 31+025 to 31+150 on the Project (hereinafter called the "Contract"). The contract documents were prepared by the JICA Study Team and were used for the JICA portion.
- (e) The Employer has also requested the Consultant to monitor the construction works under the Contract and transfer the Contract amount to the Contractor on behalf of the Employer.
- (f) The Consultant has agreed with the Employer to accept the Employer's requests stated in the provisions (d) and (e) hereinabove and signed the Contract with the Contractor on 13th November 2006.

NOW THEREFORE, the Employer and the Consultant hereby agree as follows;

1. No payment other than the amount to be paid to the Contractor shall be made to the Consultant by the Employer under this Agreement.
2. The amount to be transferred to the Contractor through the Consultant is Pakistani Rupees Fifty Million One and Paisas Seventy Nine only (Pak Rs. 50,000,001.79/-). However, this amount is a budgetary provision for the Contract and the final amount of the Contract will be determined and paid to the Contractor in accordance with the actual quantities of the construction works to be measured by the JICA Study Team.
3. Neither the Contractor nor the Consultant shall be liable to any local taxation which may be applied in Pakistan and the Employer shall bear such taxes in lieu if became applicable.
4. The Consultant's bank particulars and account number to which the payment due shall be credited against the Project are given hereunder.

Name of Bank: Standard Chartered Bank
Name of Branch: SCB-Islamabad
Title: M/S Nippon Koei Co., Ltd.
Account Number: 01737227201

5. This Agreement shall be effective for the amended contract amount of PAK Rupees (25,000,000) twenty five million instead of PAK Rupees 50,000,001.79 mentioned at provisions (c) and 2 above for NHA portion (part only) as approved by the Chairman NHA during the meeting held on the 7th September, 2007.
6. Any amendment or modification, if necessary, may be negotiated between the parties hereto and shall be agreed upon by a written document signed by both the parties.
7. This Agreement shall take effect from the date first above written and shall remain effective until the final payment is transferred to the Contractor by the Consultant in accordance with the provision 5. hereinabove.

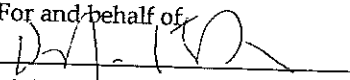
S →

Dr. H. J.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be signed in their respective names in two identical counterparts, each of which shall be deemed as the original, as of the day and year first above written.

For and on behalf of
National Highway Authority
(The Employer)
Brig. Shahid Majid SJ (M)
Member (Operations)
National Highway Authority
Islamabad

Authorized Representative

For and behalf of

(The Consultant)
Yoshihisa YAMASHITA
Deputy General Manager
Transportation Engineering
Division
Nippon Koei Co., Ltd.



パキスタン国 全国総合交通網計画調査（実証事業）（第2年次）
ジーラムバレイ道路橋梁復旧工事
現地再委託変更契約（第2回）説明書

1. 現地再委託変更契約内容

「パキスタン国 全国総合交通網計画調査（実証事業）」の現地再委託調査として実施するジーラムバレイ道路橋梁復旧工事に係る現地再委託変更契約（第2回）内容について下記の通りご報告申し上げます。

(1) NO.3 橋梁サイトのり面保護工の変更

調査団は7月31日付けのコンサルタント契約変更に基づき、NHA 区間の谷側擁壁が崩落した部分を含めた取付け道路谷側拡幅計画を提案したが、関係機関との協議の結果、NHA ポーション事業の大幅な削減が提示され、JICA 区間で拡幅を終了する最小限の谷側拡幅案（実施案）に計画変更して施工した。

- 25m の例外的な曲線半径を採用して道路を山側ではなく谷側に盛土してシフトする。
- ボックスカルバートを延長するとともに 66m の U 型流路工を設置して盛土のり尻を保護する。
- 拡幅のための盛土はガビオンにより保護する。
- 現道を現有の幅のなかで出来るだけ広くするため山側に練石擁壁を設ける。

(2) 現地再委託変更契約（第2回）について

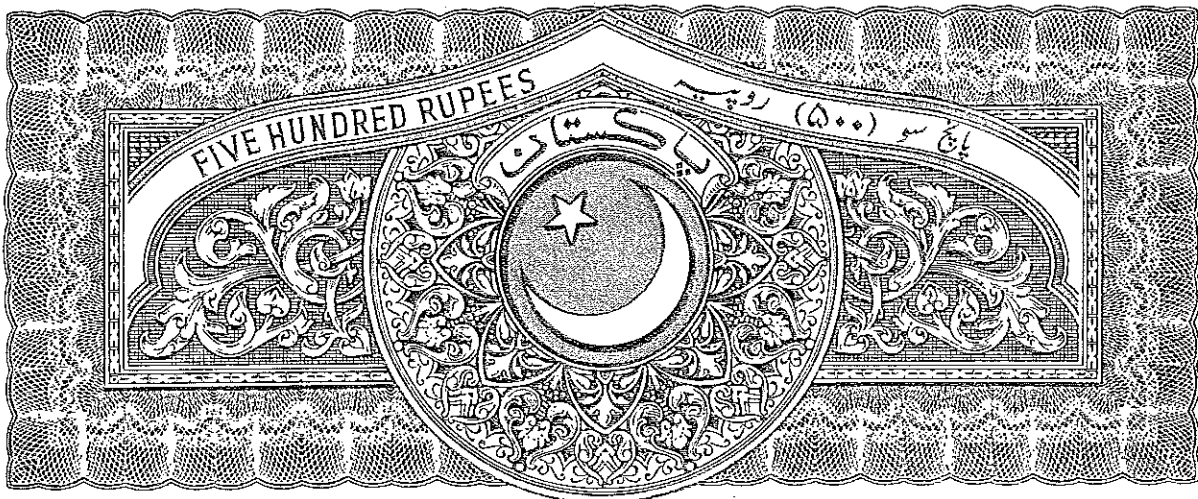
「パキスタン国 全国総合交通網計画調査（実証事業）（第2年次）」ジーラムバレイ道路橋梁復旧工事に係る再委託契約の内、上記(1) NO.3 橋梁サイトのり面保護工の変更設計内容について、関係機関との協議・承認が得られたので、Sambu との現地再委託変更契約を締結した。

第2年次現地再委託変更契約概要

プロジェクト名	全国総合交通網計画調査（実証事業）
契約日（JICA/NK）	2007年2月21日
第1回変更契約日（JICA/NK）	2007年7月31日
契約日（NK/Sambu）	2007年2月21日

第1回変更契約日 (NK/Sambu)	2007年8月1日
<u>第2回変更契約日 (NK/Sambu)</u>	<u>2008年1月23日</u>
工事費 (再委託金額)	98,110,000円 (48,617,908.32Rs.)
第1回変更工事費 (再委託金額)	78,000,000Rs.
<u>第2回変更工事費 (再委託金額)</u>	<u>78,274,665Rs.</u>
工期	2007年2月21日～2007年7月31日
第1回変更工期	2007年2月21日～2008年2月20日
<u>第2回変更工期</u>	<u>2007年2月21日～2008年1月31日</u>

以上



REVISED CONTRACT AGREEMENT

Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road.

THIS REVISED AGREEMENT, made this ۱۰th day of January 2008 Nippon Koel Co., Ltd., The Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co.Ltd, (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, VIZ:
 - a) The Contract Agreement
 - b) The letter of Acceptance
 - c) Notice to Proceed
 - d) The Bid
 - e) The Addenda/Addendum (if any).
 - f) The Condition of Particular Application—Part 7
 - g) The General Conditions of Contract;
 - h) The Drawings
 - i) The Specifications
 - j) The Priced Bill of Quantities (Revised)
 - k) Any other documents forming part of the Contract such as Letter Approved by the Client ect.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy and any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other some as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:

Amount in words Pak Rupees Seventy Eight Million Two Hundred Seventy Four Thousand Six Hundred and Sixty Five only (Pak Rupees = 78,274,665/-).

Sung Hoon Oh

[Signature]

The payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The extended time for completion of the Works shall be upto 31st January 2008 from the Commencement day.
7. This Agreement shall become affective upon the latest date when the following conditions have been satisfied:
 - a) Each of the parties has signed this Agreement.
 - b) Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.

Are as follows:

Name of Bank:	Allied Bank Limited,
Name of Branch:	Main Branch,
Address of Bank:	Blue Area Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction CO., Ltd
Account Number	0115100278

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:



Sung Hoon Oh

Sung Hoon Oh
Director Pakistan
Sambu Construction Co., Ltd.
Opp. Dera Taj Railway Station
P.O.Box.90,
Khanewal
Pakistan

Client:

Yoshihisa Yamashita

Yoshihisa YAMASHITA
Authorized Representative
The Reconstruction of bridges damaged
by Oct.8 earthquake on the JhelumValley
Road.
Jhelum Valley Road Project Office
Nippon Koei Co., Ltd.
C/o NTRC office
Sector H-8/2, Street 5 &6, Islamabad,
Pakistan.

Siraj-ud-Din

(Witness)

SIRAJ-UD-DIN
Co-ordinator

(Witness)



Jhelum Valley Road Project in the Islamic Republic of Pakistan

House No. B-46, Upper Chatter Muzaffarabad.

Tel: 0992-590780
0992-590777
Fax: 05881034898

Our Ref: - JVRP-0605-

Dated: 14th February 2008

PROJECT MANAGER
M/S SAMBU CONSTRUCTION CO. LTD
MUZAFFARABAD

Subject: FINAL PAYEMENT
JHELUM VALLEY ROAD PROJECT FOR RECONSTRUCTION
OF BRIDGES DAMAGED BY OCT' 8 EARTHQUAKE.

We are pleased to finalise payment account of the project as under:

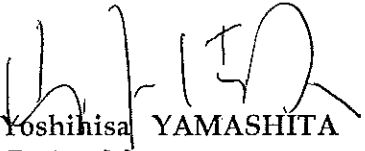
• Final contract Amount:	PKR 175,415,434.64
• Paid in FY 2006:	(-) PKR 97,006,418.30
• Balance:	PKR 78,409,016.34
• Already paid upto to IPC 15: (-) PKR 64,305,236.77	
• Balance Final Payable:	PKR 14,103,779.57

2. The above final payable amount includes reimbursement of the five percent (5%) Retention Money deducted under the contract clause 9.02 subject to the condition that M/S SAMBU Construction Co., the Contractor, shall furnish a Bank Guarantee of a scheduled Bank for the equivalent amount thereof.

3. Final afore-mentioned due amount shall be payed on production of the requisite Bank Guarantee in original.

4. An early action is advised to enable us to wrap up the final accounts of the project.

Thanking you,


Yoshinisa YAMASHITA
Project Manager
Nippon Koei Co., Ltd
Jhelum Valley Road Project
House No. B-47, Upper Chatter
Muzaffarabad.

パキスタン国 全国総合交通網計画調査（実証事業）（第2年次）

ジーラムバレイ道路橋梁復旧工事

現地再委託変更契約（第3回）説明書

1. 現地再委託変更契約内容

「パキスタン国 全国総合交通網計画調査（実証事業）」の現地再委託調査として実施するジーラムバレイ道路橋梁復旧工事に係る現地再委託変更契約（第3回）内容について下記の通りご報告申し上げます。

(1) 現地再委託最終変更契約について

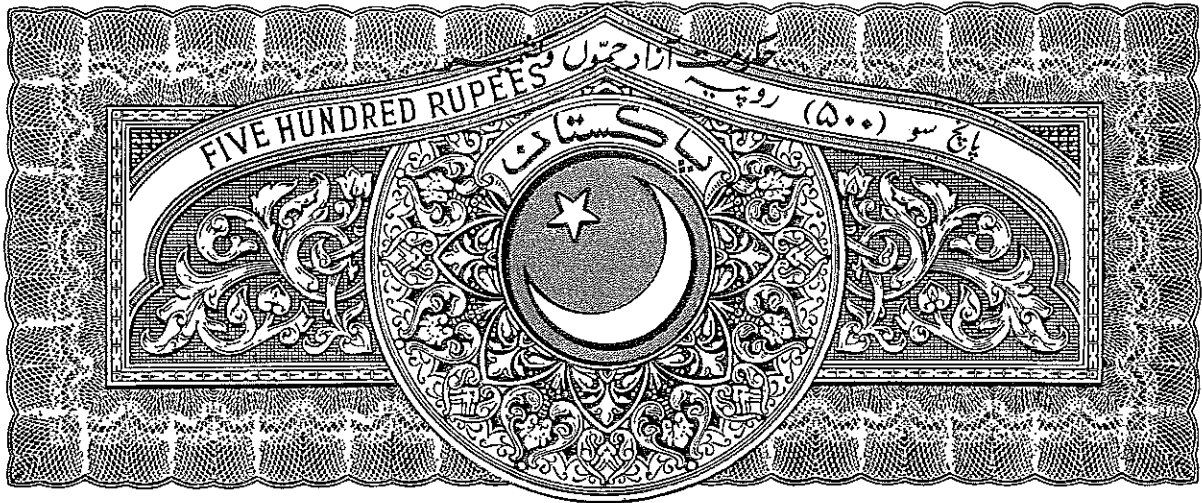
「パキスタン国 全国総合交通網計画調査（実証事業）（第2年次）」ジーラムバレイ道路橋梁復旧工事の最終出来高が確定し、2008年2月13日に、JICA パキスタン、NHA、NK（日本工営㈱）及びSambuによる現地、No.1橋梁、No.2橋梁、No.3橋梁、No.4ボックスカルバート及びNo.5橋梁の検査・引渡し完了した。

このことから、Sambuとの現地再委託最終変更契約を締結した。

第2年次現地再委託変更契約概要

プロジェクト名	全国総合交通網計画調査（実証事業）
契約日（JICA/NK）	2007年2月21日
第1回変更契約日（JICA/NK）	2007年7月31日
契約日（NK/Sambu）	2007年2月21日
第1回変更契約日（NK/Sambu）	2007年8月1日
第2回変更契約日（NK/Sambu）	2008年1月23日
<u>第3回変更契約日（NK/Sambu）</u>	<u>2008年2月13日</u>
工事費（再委託金額）	98,110,000円（48,617,908.32Rs.）
第1回変更工事費（再委託金額）	78,000,000Rs.
第2回変更工事費（再委託金額）	78,274,665Rs.
<u>第3回最終変更工事費（再委託金額）</u>	<u>78,409,016.34Rs.</u>
工期	2007年2月21日～2007年7月31日
第1回変更工期	2007年2月21日～2008年2月20日
第2回変更工期	2007年2月21日～2008年1月31日

以上



REVISED CONTRACT AGREEMENT

Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road.

THIS REVISED AGREEMENT, made this 13 day of February 2008 Nippon Koei Co., Ltd., The Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co.Ltd, (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witness the as follows:

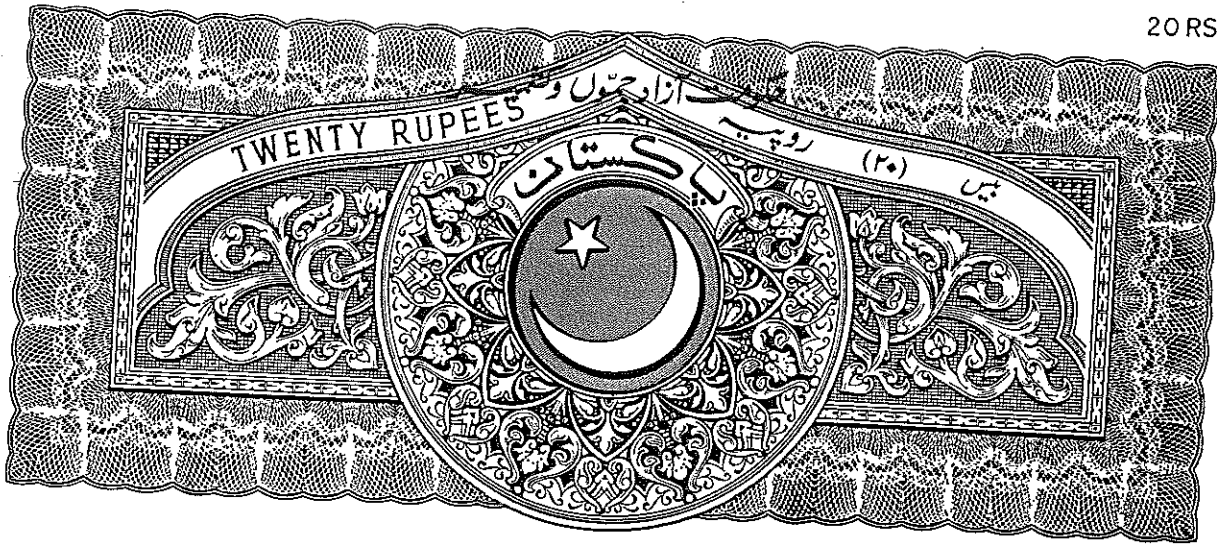
1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, VIZ:
 - a) The Contract Agreement
 - b) The letter of Acceptance
 - c) Notice to Proceed
 - d) The Bid
 - e) The Addenda/Addendum (if any).
 - f) The Condition of Particular Application—Part 7
 - g) The General Conditions of Contract;
 - h) The Drawings
 - i) The Specifications
 - j) The Priced Bill of Quantities (Revised)
 - k) Any other documents forming part of the Contract such as Letter Approved by the Client ect.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:

Amount in words Pak Rupees Seventy Eight Million Four Hundred Nine Thousand and sixteen and Paisas Thirty Four only (Pak Rupees = 78,409,016.34).

The payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The extended time for completion of the Works shall be upto 31st January 2008 from the Commencement day.



7. This Agreement shall become effective upon the latest date when the following conditions have been satisfied:
- Each of the parties has signed this Agreement.
 - Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.
- Are as follows:
- | | |
|-------------------|-----------------------------|
| Name of Bank: | Allied Bank Limited, |
| Name of Branch: | Main Branch, |
| Address of Bank: | Blue Area Islamabad |
| Type of Currency: | Pak Rupees |
| Beneficiary: | Sambu Construction CO., Ltd |
| Account Number | 0115100278. |

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:



Client:

Sung Hoon Oh

 Sung Hoon Oh
 Director Pakistan
 Sambu Construction Co., Ltd.
 Opp. Dera Taj Railway Station
 P.O.Box.90,
 Khanewal
 Pakistan

Yoshihisa Yamashita

 Yoshihisa YAMASHITA
 Authorized Representative
 The Reconstruction of bridges damaged
 by Oct.8 earthquake on the Jhelum Valley
 Road.
 Jhelum Valley Road Project Office
 Nippon Koei Co., Ltd.
 C/o NTRC office
 Sector H-8/2, Street 5 & 6, Islamabad,
 Pakistan.

Witness Signature

 (Witness)

.....
 (Witness)

JHELUM VALLY ROAD AJK (JICA Portion)

S.NO.	Description	AMOUNT(PKR)			Balance (3)-(2) (PKR)	Remarks
		Original (1)	Final (2)	Paid in FY2006 (3)		
1	Mobilization	54,884,400.30	60,676,650.30	54,884,400.30	5,792,250.00	
2	Demobilization	3,963,475.00	3,963,475.00		3,963,475.00	
3	Bridge No. 1	26,836,892.92	27,961,287.77	14,897,178.00	13,064,109.77	
4	Bridge No. 2	25,457,640.00	26,745,802.20	13,105,152.00	13,640,650.20	
5	Bridge No. 3 Bridge	26,460,202.44	19,993,893.97	5,088,233.00	14,605,660.97	
6	Bridge No. 3 Slope Protection	25,890,049.74	3,982,542.50	3,750,000.00	232,542.50	
7	Bridge No. 3 Road Works		6,309,672.97		6,309,672.97	
8	Bridge No. 3 Log Chute		7,574,460.54		7,574,460.54	
	No.3 Bridge total	52,350,252.18	37,560,569.98	8,838,233.00	28,722,336.98	
9	Culvert No. 4	7,153,207.15	6,853,123.92	1,067,511.00	5,785,612.92	
10	Bridge No. 5	11,421,358.99	11,654,525.46	4,213,944.00	7,440,581.46	
	Total	182,067,226.54	175,415,434.64	97,006,418.30	78,409,016.34	
		Advance	9,723,581.00			Mob.adv./JICA/058
		IPC 6	5,123,008.67			NK-065
		IPC 7	8,400,056.34			NK-069
		IPC 8	9,834,024.84			NK-070
		IPC 9	7,300,597.87			NK-077&076
		IPC 10	5,144,595.15			NK-095, Aug 31, 2007
		IPC 11	8,374,949.00			NK-095, Oct 9, 2007
		IPC 12	5,500,642.09			NK-100
		IPC 13	1,120,635.81			NK-108
		IPC 14	2,695,985.00			NK-125
		IPC 15	1,087,161.00			NK-126
		Total	64,305,236.77		(64,305,236.77)	
		Amount of the Final payment			14,103,779.57	

Handwritten signature

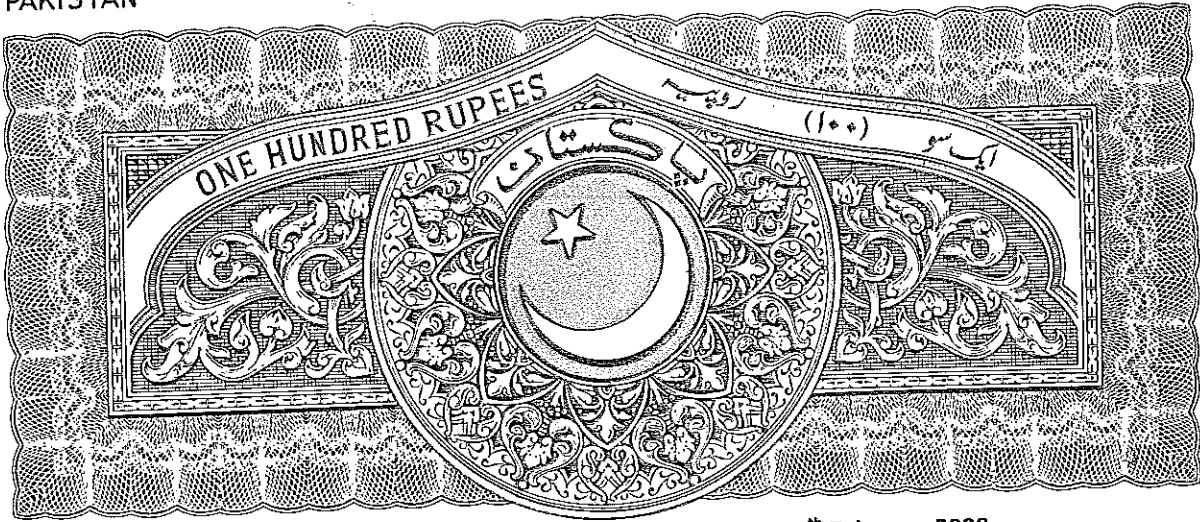
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Bill of Quantities (Estimated on 7 February 2008)

JHELUM VALLAY ROAD AJK (JICA Portion)

S.NO.	Description	AMOUNT(PKR)			Balance (3)-(2) (PKR)	Remarks
		Original (1)	Final (2)	Paid (3)		
1	Mobilization	54,884,400.30	60,676,650.30	54,884,400.30	5,792,250.00	
2	Demobilization	3,963,475.00	3,963,475.00		3,963,475.00	
3	Bridge No. 1	26,836,892.92	27,961,287.77	14,897,178.00	13,064,109.77	
4	Bridge No. 2	25,457,640.00	26,745,802.20	13,105,152.00	13,640,650.20	
5	Bridge No. 3 Bridge	26,460,202.44	19,693,893.97	5,088,233.00	14,605,660.97	
6	Bridge No. 3 Slope Protection	25,890,049.74	3,982,542.50	3,750,000.00	232,542.50	
7	Bridge No. 3 Road Works		6,309,672.97		6,309,672.97	
8	Bridge No. 3 Log Chute		7,574,460.54		7,574,460.54	
	No.3 Bridge total	52,350,252.18	37,560,569.98	8,838,233.00	28,722,336.98	
9	Culvert No. 4	7,153,207.15	6,853,123.92	1,067,511.00	5,785,612.92	
10	Bridge No. 5	11,421,358.99	11,654,525.46	4,213,944.00	7,440,581.46	
	Total	182,067,226.54	175,415,434.64	97,006,418.30	78,409,016.34	

Handwritten signature



Issue Date : 19th February 2008
 Guarantee No.: G/331/08/0012
 Amount (PKR): 8,764,054/-
 Expiry date : 20th February 2009

NIPPON KOEI CO. LTD
B-47, UPPER CHATTER HOUSING
MUZAFFARABAD, AJK
PAKISTAN.

BANK GUARANTEE FOR RETENTION MONEY GUARANTEE

WHEREAS Nippon Koei Co. Ltd (hereinafter called the Client) has entered into a Contract for "Reconstruction of Bridges Damaged by October 08 Earthquake on Jhelum, Valley Road" (hereinafter called the Project) with SAMBU Construction Co Ltd. (hereinafter called the Contractor)

AND WHEREAS, the Client has agreed to accept Retention Money from the Contractor, at the Contractor request, in the form and shape of a Bank Guarantee of an equivalent amount.

AND WHEREAS, ABN AMRO Bank (Pakistan) Limited (Formerly Prime Commercial Bank Limited). 310 Upper Mall Lahore Pakistan (hereinafter called the Guarantor) at the request of the Contractor and in consideration of the Client agreeing to accept the above Bank Guarantee against Retention Money from the Contractor, has agreed to furnish the said Guarantee.

Now therefore, the Guarantor hereby guarantee that the Contractor shall use the Retention Money for the purpose of the above mentioned Contract and if the Contractor falls and commits default in fulfillment of any of his obligations, for which the Retention Money is made, the Guarantor shall be liable to the Client for payment not exceeding the amount of PKR. 8,764,054/- (Pak Rupees, Eight Million Seven Hundred Sixty Four Thousand and Fifty Four Only)

Notice in writing, in case of any default on the part of the Contractor of which the Client shall be the sole and final judge, shall be given by the Client for payment not exceeding the aforesaid amount and on such first written demand, payment shall be made forthwith by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection whatsoever.

This guarantee shall remain in force until the Satisfactory Completion of the Defects liability Period of the afore-mentioned Project or until 20th February 2009 whichever is earlier.

Our maximum liability under this guarantee is limited to the sum of PKR. 8,764,054/- in words (Pak Rupees, Eight Million Seven Hundred Sixty Four Thousand and Fifty Four Only) and claim if any in writing must be lodged with the ABN AMRO Bank (Pakistan) Limited, formerly Prime Commercial Bank Ltd, having its registered office at 310, Upper Mall Road, Lahore Pakistan, on or before 20th February 2009. If any claim which should have been made under this guarantee is not made and received by us in the manner and within the time stipulated, such omission will release and discharge us from all liabilities, if any, under this guarantee, which guarantee on the expiry of the said period shall stand cancelled and void whether or not the said guarantee is returned to us.

Witnesses:

- 1.
- 2.

for & behalf of
 ABN AMRO Bank (Pakistan) Limited,
 Formerly Prime Commercial Bank Ltd

SAEEDA AKHTAR
 Corporate Director
 Regional Head Operations (Central)
 ABN AMRO Bank (Pakistan) Ltd
 310-UPPER MALL LAHORE

SHAHID ABEAS
 AVP GSS, CFA, Ops.
ABN AMRO Bank (Pakistan) Ltd.
 310-UPPER MALL LAHORE.
 Ph. 5751000 Ext. 2410 Fax: 5751020

مرکز تحقیقات سماوی اسٹارپ فروش 77۔ بی سڑک نمبر 3 خیرودین پارک شاداب شاہ لاہور

تاریخ 19-02-08 نمبر 1234 اسٹارپ ایجنسی

258 FICORR ذریعہ ABN Anwar Basall Pakistan
NIPPON KOEI Co. Ltd. ق. Cap SUR ASTEE

M. Suleha
دستخط اسٹارپ فروش

APPENDIX - A

A-4: Bill of Quantities (Final)

Bill of Quantities

Original and Final

JHELUM VALLEY ROAD AJK (JICA Portion)

S.NO.	Description	AMOUNT(PKR)			Balance (3)-(2) (PKR)	Remarks
		Original (1)	Final (2)	Paid in FY2006 (3)		
1	Mobilization	54,884,400.30	60,676,650.30	54,884,400.30	5,792,250.00	
2	Demobilization	3,963,475.00	3,963,475.00		3,963,475.00	
3	Bridge No. 1	26,836,892.92	27,961,287.77	14,897,178.00	13,064,109.77	
4	Bridge No. 2	25,457,640.00	26,745,802.20	13,105,152.00	13,640,650.20	
5	Bridge No. 3 Bridge	26,460,202.44	19,693,893.97	5,088,233.00	14,605,660.97	
6	Bridge No. 3 Slope Protection	25,890,049.74	3,982,542.50	3,750,000.00	232,542.50	
7	Bridge No. 3 Road Works		6,309,672.97		6,309,672.97	
8	Bridge No. 3 Log Chute		7,574,460.54		7,574,460.54	
	No.3 Bridge total	52,350,252.18	37,560,569.98	8,838,233.00	28,722,336.98	
9	Culvert No. 4	7,153,207.15	6,853,123.92	1,067,511.00	5,785,612.92	
10	Bridge No. 5	11,421,358.99	11,654,525.46	4,213,944.00	7,440,581.46	
	Total	182,067,226.54	175,415,434.64	97,006,418.30	78,409,016.34	

	Advance	9,723,581.00	Mob.adv./JICA/058
	IPC 6	5,123,008.67	NK-065
	IPC 7	8,400,056.34	NK-069
	IPC 8	9,834,024.84	NK-070
	IPC 9	7,300,597.87	NK-077&076
	IPC 10	5,144,595.15	NK-095, Aug.31, 2007
	IPC 11	8,374,949.00	NK-095, Oct 9, 2007
	IPC 12	5,500,642.09	NK-100
	IPC 13	1,120,635.81	NK-108
	IPC 14	2,695,985.00	NK-125
	IPC 15	1,087,161.00	NK-126
	Total	64,305,236.77	
	Amount of the Final payment	14,103,779.57	

Amount paid under
Interim Payments
in FY2007

2. CONSTRUCTION COST

2.1 Bridge No.1

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Difference	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	132.70	132.70	82,937.50	82,937.50	0.00	
106ciii	Excavate surplus material	Soft rock	m3	425.00	481.09	481.66	204,483.25	204,705.50	242.25	
107ciii	Structural excavation	Soft rock material	m3	437.50	3,118.63	3,118.63	1,364,400.62	1,364,400.62	0.00	
107civ	Structural excavation	Existing abutment	m3	555.00	341.25	341.28	189,410.40	189,410.40	0.00	
107d	Back fill	Granular material	m3	859.375	2,687.41	2,687.41	2,309,492.96	2,309,492.96	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	1,242.44	1,174.81	310,610.00	293,702.50	-16,907.50	
200	Stone base		m3	625.00	47.87	47.87	29,918.75	29,918.75	0.00	
201	Granular Sub-base		m3	1,000.00	52.21	27.57	52,210.00	27,570.00	-24,640.00	
202	Base course	Aggregate	m3	1,625.00	78.76	117.46	127,985.00	190,872.50	62,887.50	
203b	Asphaltic base course	Plant mix	m3	11,875.00	23.31	12.44	276,806.25	147,725.00	-129,081.25	
302a	Prime coat	Out-back Asphalt	m2	62.50	707.02	1088.00	44,188.75	64,875.00	20,686.25	
303a	Tack coat	Out-back Asphalt	m2	43.75	310.76	165.89	13,595.75	7,257.68	-6,338.07	
304c	Triple surface treatment	t = 21mm	m2	223.20	82.40	17.92	18,391.68	3,999.74	-14,391.94	
305b	Wearing course	Plant mix	m3	11,875.00	35.35	51.90	419,781.25	616,312.50	196,531.25	
401a1	Concrete for abutment and retaining wall	Class A1	m3	9,750.00	607.81	666.20	5,926,147.50	6,495,450.00	569,302.50	
401a1	Concrete for barrier/ & approach slab	Class A1	m3	9,750.00	41.96	43.95	409,110.00	428,512.50	19,402.50	
401a3	Concrete for super-structure	Class A3	m3	9,750.00	92.61	92.61	902,947.50	902,947.50	0.00	
401d	Concrete for PC girder	Class D1	m3	13,000.00	104.46	104.46	1,357,980.00	1,357,980.00	0.00	
401f	Lean concrete for abutment	Lean concrete	m3	5,625.00	35.53	35.53	199,856.25	199,856.25	0.00	
404b	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	95.16	95.50	9,278,100.00	9,311,250.00	33,150.00	
405a	Prestressing wire strand	3/8" - 1/2" dia complete in all aspect	ton	231,250.00	4.19	4.19	968,937.50	968,937.50	0.00	
405b	Launching of girder		No.	250,000.00	4.00	4.00	1,000,000.00	1,000,000.00	0.00	
406c	Bearing pad	Neoprene	cm3	3.125	112,000.00	112,000.00	350,000.00	350,000.00	0.00	
408h	Expansion Joint	NBS0	m	37,500.00	19.40	19.40	727,500.00	727,500.00	0.00	
408	Drain pipe	Polyethylene	No.	437.50	10.00	10.00	4,375.00	4,375.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	23.43	0.00	76,147.50	0.00	-76,147.50	
507c	Gabion		m3	1,437.50	116.00	116.00	166,750.00	166,750.00	0.00	
608b	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	255.00	255.00	24,862.50	24,862.50	0.00	
	Additional structural excavation	Soft rock material	m3	437.50		134.06	0.00	58,651.25	58,651.25	
	Additional gabion		m3	1,437.50		228.31	0.00	328,195.62	328,195.62	
	Additional guard block concrete		m3	9,750.00		4.62	0.00	45,045.00	45,045.00	
	Additional painting		m2	550.00		105.08	0.00	57,794.00	57,794.00	New rate, 査定済。
	TOTAL	Adjustment of Original BOQ					-12.99	27,961,287.77	12.99	
							26,836,892.92	27,961,287.77	1,124,394.85	

2. CONSTRUCTION COST

2.2 Bridge No.2

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Difference (PKR)	Remarks
					Original	Final	Original	Final		
106diii	Excavate surplus material	Soft rock	m ³	425.00	33.23	33.23	14,122.75	14,122.75	0.00	
107cii	Structural excavation	Soft rock material	m ³	437.50	2,519.51	2,519.51	1,102,285.63	1,102,285.63	0.00	Including existing abutment
107d	Back fill	Granular material	m ³	859.375	2,157.70	2,157.70	1,854,273.44	1,854,273.44	0.00	
108c	Formation of Embankment from borrow pit	Common material	m ³	250.00	3,412.77	3,270.65	853,192.50	817,662.50	-35,530.00	
200	Stone base		m ³	625.00	35.10	35.10	21,937.50	21,937.50	0.00	
201	Granular Sub-base		m ³	1,000.00	67.74	41.29	67,740.00	41,290.00	-26,450.00	
202	Base course	Aggregate	m ³	1,625.00	96.83	83.58	157,348.75	135,817.50	-21,531.25	
203a	Asphaltic base course	Plant mix	m ³	11,875.00	30.41	16.61	361,118.75	197,243.75	-163,875.00	
209d	Scarification	Existing Pavement	m ²	93.75	103.00	0.00	9,656.25	0.00	-9,656.25	
302a	Prime coat	Cut-back Asphalt	m ²	62.50	802.89	764.24	50,168.13	47,765.00	-2,403.13	
303a	Tack coat	Cut-back Asphalt	m ²	43.75	405.48	221.40	17,739.75	9,686.25	-8,053.50	
304c	Triple surface treatment	t = 21mm	m ²	223.20	103.30	53.88	23,056.56	12,028.02	-11,030.54	
305a	Wearing course	Plant mix	m ³	11,875.00	40.13	38.21	476,543.75	453,743.75	-22,800.00	
401a1	Concrete for abutment	Class A1	m ³	9,750.00	519.48	577.88	5,064,930.00	5,634,330.00	569,400.00	
401a1	Concrete for barrier & approach slab	Class A1	m ³	9,750.00	41.23	41.73	401,992.50	406,867.50	4,875.00	
401a3	Concrete for super-structure	Class A3	m ³	9,750.00	92.61	92.61	902,947.50	902,947.50	0.00	
401d	Concrete for PC girder	Class D1	m ³	13,000.00	104.46	104.46	1,357,980.00	1,357,980.00	0.00	
401f	Lean concrete for abutment	Lean concrete	m ³	5,625.00	25.91	25.91	145,743.75	145,743.75	0.00	
404a	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	86.97	86.97	8,479,575.00	8,479,575.00	0.00	
405a	Prestressing wire strand	3/8"-1/2" dia complete in all aspect	ton	231,250.00	4.19	4.19	968,937.50	968,937.50	0.00	
405b	Launching of girder		No.	250,000.00	4.00	4.00	1,000,000.00	1,000,000.00	0.00	
405c	Bearing pad		No.	187,500.00	4.00	4.00	750,000.00	750,000.00	0.00	
406e	Expansion joint	Neoprene	cm3	3,125	112,000.00	112,000.00	350,000.00	350,000.00	0.00	
406h	Drain pipe	NB50	m	37,500.00	19.40	19.40	727,500.00	727,500.00	0.00	
408	Stone masonry	Polyethylene	No.	437.50	10.00	10.00	4,375.00	4,375.00	0.00	
411b	Gabion	With mortar	m ³	3,250.00	31.20	0.00	101,400.00	0.00	-101,400.00	
507a	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	116.00	116.00	166,750.00	166,750.00	0.00	
608b	Additional structural excavation		m		270.00	270.00	26,325.00	26,325.00	0.00	
	Additional gabion		m ³	437.50		385.70	0.00	168,743.75	168,743.75	
	Additional guard block concrete		m ³	1,437.50		581.59	0.00	836,035.63	836,035.63	
	Additional painting		m ²	9,750.00		5.35	0.00	52,162.50	52,162.50	
				550.00		108.50	0.00	59,675.00	59,675.00	New rate, 査定済。
	TOTAL						25,457,640.00	26,745,802.20	1,288,162.21	

2. CONSTRUCTION COST

2.3.1 Bridge No.3

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	24.00	24.00	15,000.00	15,000.00	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	2.88		1,224.00	0.00	-1,224.00	
107ci	Structural excavation	Hard rock material	m3	975.00	50.00	50.00	48,750.00	48,750.00	0.00	
107ciii	Structural excavation	Soft rock material	m3	437.50	1,821.00	1,608.30	796,687.50	703,631.25	-93,056.25	Including existing abutment
107d	Back fill	Granular material	m3	859.38	1,587.00	1,672.45	1,363,828.13	1,437,261.72	73,433.59	
108e	Formation of Embankment from borrow pit	Common material	m3	250.00	2,172.00		543,000.00	0.00	-543,000.00	
200	Stone base		m3	625.00	96.16	58.64	60,100.00	36,650.00	-23,450.00	
201	Granular Sub-base		m3	1,000.00	70.01		70,010.00	0.00	-70,010.00	
202	Base course	Aggregate	m3	1,625.00	95.98		155,967.50	0.00	-155,967.50	
203b	Asphaltic base course	Plant mix	m3	11,875.00	32.47		385,581.25	0.00	-385,581.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	432.91		27,056.88	0.00	-27,056.88	
303a	Tack coat	Cut-back Asphalt	m2	43.75	432.91		18,939.81	0.00	-18,939.81	
304c	Triple surface treatment	t = 21mm	m2	223.20	173.40		38,702.88	0.00	-38,702.88	
305b	Wearing course	Plant mix	m3	11,875.00	21.65		257,093.75	0.00	-257,093.75	
401a	Concrete	Class A1	m3	9,750.00	1,095.25	829.44	10,678,687.50	8,087,040.00	-2,591,647.50	
401f	Lean concrete	Lean concrete	m3	5,625.00	48.08	28.40	270,450.00	159,750.00	-110,700.00	
404a	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	101.10	87.89	9,857,250.00	8,569,275.00	-1,287,975.00	
406d	Water stop	6"	m	785.00	34.60	34.60	27,161.00	27,161.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	17.16		55,770.00	0.00	-55,770.00	
507a	Gabion	ht=1.0m	m3	1,437.50	61.50	250.00	88,406.25	359,375.00	270,968.75	
604a	Steel guard rail		m	15,000.00	96.25		1,443,750.00	0.00	-1,443,750.00	
608bii	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	69.60		6,786.00	0.00	-6,786.00	
	Sub-Total						26,210,202.44	19,443,893.97	-6,766,308.47	
	Temporary work	Protection of upstream slope by gabions	L.S.	250,000.00	1.0	1.0	250,000.00	250,000.00	0.00	
	TOTAL						26,460,202.44	19,693,893.97	-6,766,308.47	

2. CONSTRUCTION COST

2.3.2 Site No. 3 (Slope Protection) : Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Difference (PKR)	Remarks
					Original	Final	Original	Final		
101	Clearing and grubbing		m2	13.75			0.00	0.00	0.00	
106a	Excavation	Unsuitable common material	m3	250.00	35,195.00	6,745.00	8,798,750.00	1,686,250.00	-7,112,500.00	
106ci	Manual excavate	Surplus common material	m3	437.50	4,217.90		1,845,068.75	0.00	-1,845,068.75	
107cii	Structural excavation	Soft rock material	m3	437.50	238.62		104,396.25	0.00	-104,396.25	
107d	Back fill	Granular material	m3	859.38	59.45		51,090.14	0.00	-51,090.14	
201	Granular Sub-base		m3	1,000.00	50.50		50,500.00	0.00	-50,500.00	
202	Base course	Aggregate	m3	1,625.00	69.83		113,473.75	0.00	-113,473.75	
203b	Asphaltic base course	Plant mix	m3	11,875.00	23.37		277,518.75	0.00	-277,518.75	
209b	Scarification	Existing Pavement	m2	93.75	15.00		1,406.25	0.00	-1,406.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	311.56		19,472.50	0.00	-19,472.50	
303a	Tack coat	Cut-back Asphalt	m2	43.75	311.56		13,630.75	0.00	-13,630.75	
304c	Triple Surface Treatment	t = 21mm	m2	223.20	43.00		9,597.60	0.00	-9,597.60	
305b	Wearing course	Plant mix	m3	11,875.00	15.58		185,012.50	0.00	-185,012.50	
401a1	Concrete for retaining wall	Class A1	m3	9,750.00	451.04		4,397,640.00	0.00	-4,397,640.00	
401a4	Concrete crib work	Spray class A4 concrete	m3	12,740.00	0.00		0.00	0.00	0.00	
401f	Lean concrete for retaining wall	Lean concrete	m3	5,625.00	12.30		69,187.50	0.00	-69,187.50	
404b	Reinforcement for concrete crib	AASHTO M.31 Grade 60	ton	97,500.00	0.00		0.00	0.00	0.00	
406f	Asphalt felt	3 ply	m2	4,375.00	11.00		48,125.00	0.00	-48,125.00	
411b	Stone masonry	With mortar	m3	3,250.00	50.90		165,425.00	0.00	-165,425.00	
600	Drain pipe for retaining wall	Polyethylene	m	437.50	82.00		35,875.00	0.00	-35,875.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	144.00		14,040.00	0.00	-14,040.00	
902	Rock bolt for concrete crib	D22 with boring & grouting	m	8,750.00	0.00		0.00	0.00	0.00	
904i	Mortar spray	100 mm thick	m2	2,000.00	1,032.34	889.27	2,064,680.00	1,978,540.00	-86,140.00	
904ii	Mortar spray	50 mm thick	m2	1,500.00	5,083.44		7,625,160.00	0.00	-7,625,160.00	
	Sub-TOTAL						25,890,049.74	3,664,790.00	-22,225,259.74	
	Additional concrete for cut surface	Class A1	m3	9,750.00	32.59		0.00	317,752.50	317,752.50	
	Sub-TOTAL						0.00	0.00	0.00	
	TOTAL						25,890,049.74	3,982,542.50	-21,907,507.24	

2. CONSTRUCTION COST

2.3.3 Site No. 3 (Road Works) : Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
106a	Excavate	Unsuitable common material	m3	250.00			0.00	0.00		
106ci	Manual excavate	Surplus common material	m3	437.50	139.64		0.00	61,092.50		
107cii	Structural excavation	Soft rock material	m3	437.50	7.25		0.00	3,171.88		
107d	Back fill	Granular material	m3	859.38	2008.70		0.00	1,726,236.61		
	Back fill for Wet-masonry wall	Aggregate material	m3	1,812.00	78.96		0.00	141,988.32		New rate, 査定済。
	Gabion (t=0.5m)		m3	2,468.80	162.67		0.00	401,599.70		New rate, 査定済。
201	Granular Sub-base		m3	1,000.00	116.77		0.00	116,770.00		
202	Base course	Aggregate	m3	1,625.00	132.84		0.00	215,865.00		
203b	Asphaltic base course	Plant mix	m3	11,875.00	55.96		0.00	664,525.00		
302a	Prime coat	Cut-back Asphalt	m2	62.50	853.52		0.00	53,345.00		
303a	Tack coat	Cut-back Asphalt	m2	43.75	746.10		0.00	32,641.88		
305b	Wearing course	Plant mix	m3	11,875.00	42.68		0.00	506,825.00		
401a1	Concrete for retaining wall and other	Class A1	m3	9,750.00	210.75		0.00	2,054,812.50		
401f	Lean concrete for retaining wall	Lean concrete	m3	5,625.00	8.70		0.00	48,937.50		
406f	Asphalt felt	3 ply	m2	4,375.00	0.00		0.00	0.00		
	Drain pipe for wet-masonry wall	dia 45mm, l=600mm	m	150.00	9.00		0.00	1,350.00		小額なため提案をそのまま受け入れ。
411b	Stone masonry for side ditch	With mortar	m3	3,250.00	20.94		0.00	68,055.00		
	Wet-masonry (t=50)	with concrete	m3	4,000.00	24.97		0.00	99,880.00		New rate, 査定済。
	Traffic road sign		nos.	12,648.80	2.00		0.00	25,293.60		New rate, 小額のため提案をそのまま受入る。
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	196.20		0.00	19,129.50		
	Reinforcement		ton	97500.00	0.5		0	48750		
	Additional painting		m2	550.00	35.28			19404		
	TOTAL						0.00	6,309,672.97		

2. CONSTRUCTION COST

2.3.4 Site No. 3 (Log Chute) : Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
	Log Chute									
	Additional structural excavation	Soft rock material	m3	437.50		446.64	0.00	195,405.00	195,405.00	
	Additional back fill	Granular material	m3	859.38		295.50		253,946.79	253,946.79	
	Additional back fill	Common soil	m3	250.00		587.70		146,925.00	146,925.00	
	Additional stone base		m3	625.00		34.92	0.00	21,825.00	21,825.00	
	Additional lean concrete	Lean concrete	m3	5,625.00		17.46	0.00	98,212.50	98,212.50	
	Additional concrete	Class A1	m3	9,750.00		337.64	0.00	3,291,990.00	3,291,990.00	
	Additional reinforcement	AASHTO M.31 Grade 60	ton	97,500.00		34.93	0.00	3,405,675.00	3,405,675.00	
	Additional gabion	h=0.5m	m3	1437.50			0.00	0.00	0.00	
	Additional gabion base concrete	Lean concrete	m3	5625.00		28.53	0.00	160,481.25	160,481.25	
							0.00			
							0.00		0.00	
							0.00			
							0.00			
							0.00			
	TOTAL						0.00	7,574,460.54	7,574,460.54	

2. CONSTRUCTION COST

2.5 Bridge No.5

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Difference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	235.60	235.60	147,250.00	147,250.00	0.00	
106d/ii	Excavate surplus material	Soft rock	m3	425.00	164.24	150.68	69,802.00	64,039.00	-5,763.00	
107c/iii	Structural excavation	Soft rock material	m3	437.50	1,104.50	1,104.00	483,218.75	483,000.00	-218.75	Including existing abutment
107d	Back fill	Granular material	m3	859.38	985.40	985.40	846,828.13	846,828.13	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	985.09	941.82	246,272.50	235,455.00	-10,817.50	
200	Stone base		m3	625.00	72.65	72.65	45,406.25	45,406.25	0.00	
201	Granular Sub-base		m3	1,000.00	84.55	85.93	84,550.00	85,930.00	1,380.00	
202	Base course	Aggregate	m3	1,625.00	92.43	122.35	150,198.75	198,818.75	48,620.00	
203a	Asphaltic base course	Plant mix	m3	11,875.00	35.48	28.31	421,325.00	336,181.25	-85,143.75	
209d	Scarification	Existing Pavement	m2	93.75	74.58	74.58	6,991.88	6,991.88	0.00	
302a	Prime coat	Cut-back Asphalt	m2	62.50	473.00	555.06	29,562.50	34,691.25	5,128.75	
303a	Tack coat	Cut-back Asphalt	m2	43.75	473.00	377.41	20,693.75	16,511.69	-4,182.06	
304c	Triple surface treatment	t = 21mm	m2	223.20	120.00	195.46	26,784.00	43,626.67	16,842.67	
305a	Wearing course	Plant mix	m3	11,875.00	23.85	27.75	280,843.75	329,531.25	48,687.50	
401a	Concrete	Class A1	m3	9,750.00	393.50	399.25	3,836,625.00	3,892,687.50	56,062.50	
401f	Lean concrete	Lean concrete	m3	5,625.00	33.76	33.76	189,900.00	189,900.00	0.00	
404h	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	34.95	34.95	3,407,625.00	3,407,625.00	0.00	
406d	Water stop	6"	m	785.00	32.80	32.80	25,748.00	25,748.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	2.60	3.99	8,450.00	12,967.50	4,517.50	
507a	Gabion		m3	1,437.50	32.98	32.98	47,408.75	47,408.75	0.00	
604a	Steel guard rail		m	15,000.00	68.75	69.30	1,031,250.00	1,048,500.00	17,250.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	150.00	150.00	14,625.00	14,625.00	0.00	
	Additional structural excavation									
	Additional gabion	Soft rock material	m3	437.50	26.00	26.00	0.00	11,375.00	11,375.00	
	Additional painting		m3	1,437.50	52.40	52.40	0.00	75,325.00	75,325.00	
	Additional kerb stone		m2	774.00	69.90	69.90	0.00	54,102.60	54,102.60	New rate. 壹定済。
	Adjustment of BOQ		m3	9,750.00	0.0	0.0	0.00	0.00	0.00	
	TOTAL						11,421,358.99	11,654,525.46	233,166.47	

APPENDIX - B

B-1: Minute of Meeting for Handing Over of the Facilities

Subject: MEMORANDUM OF UNDERSTANDING FOR TAKING OVER OF RECONSTRUCTED FOUR BRIDGES (NO.1, 2, 3&5) AND ONE BOX CULVERT (NO.4) DAMAGED BY OCT 8TH 2005 EARTHQUAKE ON JHELUM VALLEY ROAD MUZAFFARABAD.

JICA has provided Technical Assistance under Pakistan Transport Plan Study for Reconstruction of Five Bridges Damaged by October 8th 2005 Earthquake on the Jhelum Valley Road as per Scope of Work signed with Ministry of Communications, Government of Pakistan. JICA accordingly concluded an agreement for implementation of this aforementioned project with Nippon Koei Co; Ltd (Japan). As a further step in sequence, Nippon Koei Co; Ltd entered into an agreement on 25th July 2006, for reconstruction (execution and completion) and remedying of defects within the defects liability period of one year (365 days) from the date of handing over to JICA, with M/S SAMBU Construction Co. Ltd (KOREA). Nippon Koei Co; Ltd has accordingly monitored and carried out the supervision of this afore-mentioned project for its implementation as per provisions of the contract and in conformance with the contract quality assurance standards. All of these five number bridges as per contract, four bridges comprising bridge no. 1, 2, 3 & 5 and one box culvert no.4 have since been completed as under:

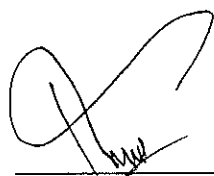
- Commencement date of project : 1st August 2006
(Five number bridges)
- Taking Over date for four bridges and one box culvert by NHA: 13th February 2008

2- Nippon Koei Co; Ltd hereby certifies to have carried out the final inspection of the project on 13th February 2008 jointly with JICA and NHA officials and found these facilities having been completed as per terms of the contract and in accordance with the specified quality standards. Corrective works shall be carried out during the Defects Liability Period as per contract between Nippon Koei Co., Ltd and SAMBU Construction Co. Ltd. These completed project facilities of bridge no.1, 2, 3 & 5 and box culvert no. 4, therefore, are hereby handed over to JICA.

3- In the light of the fore-goings, JICA hereby confirms the TAKING OVER of the subject facilities from M/S Nippon Koei Co; Ltd.

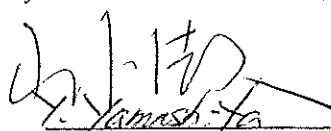
4- NHA, as the end user, hereby express to use the facilities and certifies the TAKING OVER of the subject project facilities from JICA.

5- NHA shall carry out the essential left over slope protection works at bridge no. 3 which were reduced from the scope of works due to budgetary constraints and also shall maintain properly the afore-mentioned handed over facilities.



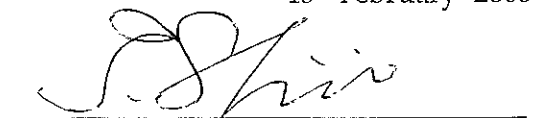
National Highway Authority

Khan Zafar
(NHA)
DD (M) NHA
Balakot



T. Yamashita
Nippon Koei Co; Ltd
(NK)

13th February' 2008



Japan International Cooperation Agency
(JICA)

LIST OF DOCUMENTS

1. AS BUILT DRAWINGS


• Bridge No. 1	:	Page No. 01 - 93
• Bridge No. 2	:	Page No. 94 - 168
• Bridge No. 3	:	Page No. 169 - 217
• Box Culvert No. 4	:	Page No. 218 - 252
• Bridge No. 5	:	Page No. 253 - 286


2. QUALITY CONTROL DATA

• Concrete	:	Page No. 01 - 325
• Steel Reinforcement (Grade 60-AASHTO M-31)	:	Page No. 326 - 354
• Back fill / Embankment material :		Page No. 355 - 473
• Sub Base / Base course	:	Page No. 474 - 503
• Asphalt	:	Page No. 504 - 570
• Gradation	:	Page No. 571 - 799

打 合 簿

平成 20年2月15日

分任監督職員 清水 勉 

総括 山下 佳久 

調査名 パキスタン国全国総合交通網計画調査 (実証事業)

打 合 項 目	打 合 内 容 及 び 結 果
<p>NHA 残工事、事業完了後から瑕疵期間終了までの予定</p>	<p>調査団は、事業完了後、瑕疵期間終了までの対応、予定を下記のように JICA に説明した。JICA はこれを了解した。</p> <p style="text-align: center;">記</p> <p>1. NHA 区間、残工事完成までの対応：</p> <p>NK は NHA 区間の Substantial Completion Certificate (注： JICA 区間は Completion Certificate) を SAMBU に出す。加えて NHA, Member Operation 宛に状況報告 (Log-chute を含むのり面対策が終了し Substantial Completion Certificate を出状した。縦溝が残り、これが 3 月中旬までに完了する予定。NK は引き続きモニタリングを行う。) を文書で行う。</p> <p>縦溝は雨季明けの 3 月からの作業になる。NK は、本作業が 3 月初旬から中旬にかけて行われると予想し、この間のモニタリングのため、副 PM の Mr. Ghulam Nabi Malik を配置する。これに要する費用は SAMBU と NK とで折半する。</p> <p>2. 瑕疵期間中の対応：</p> <p>同様に副 PM の Mr. Ghulam Nabi Malik が必要に応じ、または 2 ヶ月程度の間隔(6 回程度を想定)で現地を確認する。これに要する費用は NK が負担する。加えて、NK 要員が NHA 区間完了時、瑕疵期間完了時に来パキして終了手続等を行う。</p> <p>3. Mr. Ghulam Nabi Malik の連絡先</p> <p>Address: House No.175/D Satelite Town, Rawalpindi, Pakistan Tel. Cell 0345-511215 PTCL: (051) 4429975, (051) 4845695 E-mail: mlkgn@yahoo.com</p> <p style="text-align: right;">以 上</p>