

แบบฟอร์มแนบท้ายประกาศที่ ปก ๑๓๓/๒๕๕๖

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง (ราคาอ้างอิง)

ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง (รวมถึงเช่า เช่าซื้อ แลกเปลี่ยน)

๑. ชื่อโครงการจัดหาพร้อมติดตั้งระบบ Backbone Multiplexer (Multiservice Access Platform NGN) และอะไหล่สำรองสำหรับการซ่อมบำรุง พร้อมอุปกรณ์ Test Equipment สำหรับใช้งานทดแทนที่สำนักงานใหญ่ ท่าอากาศยานสุวรรณภูมิ และสนับสนุนระบบ MOPS (Main Operation System) ที่อาคารศูนย์ปฏิบัติการสำรองฉุกเฉินท่าอากาศยานสุวรรณภูมิ และใช้งานในโครงการติดตั้งสถานีเครื่องส่งวิทยุ ณ อุดรธานี และสถานีเครื่องส่งวิทยุสำรอง ณ เชียงใหม่ และ ภูเก็ต
๒. วงเงินงบประมาณที่ได้รับจัดสรร ๓๕,๘๒๘,๙๓๐.- บาท
๓. วันที่กำหนดราคากลาง (ราคาอ้างอิง) วันที่ ๒๘ กันยายน ๒๕๕๘
รวม ๓๕,๒๖๕,๙๙๒.๐๐ บาท แยกเป็น
 - ๓.๑ สำหรับใช้งานทดแทนที่สำนักงานใหญ่ ท่าอากาศยานสุวรรณภูมิ
เป็นเงิน ๑๙,๖๖๓,๑๙๑ บาท ราคา/หน่วย (ถ้ามี)..... บาท
 - ๓.๒ สนับสนุนระบบ MOPS (Main Operation System) ที่อาคารศูนย์ปฏิบัติการสำรองฉุกเฉินท่าอากาศยานสุวรรณภูมิ
เป็นเงิน ๖,๓๕๔,๐๓๔ บาท ราคา/หน่วย (ถ้ามี)..... บาท
 - ๓.๓ โครงการติดตั้งสถานีเครื่องส่งวิทยุ ณ สถานีเครื่องส่งวิทยุสำรอง ณ เชียงใหม่ และ ภูเก็ต
เป็นเงิน ๔,๕๐๐,๓๔๑ บาท ราคา/หน่วย (ถ้ามี)..... บาท
 - ๓.๔ โครงการติดตั้งสถานีเครื่องส่งวิทยุ ณ อุดรธานี
เป็นเงิน ๔,๓๔๓,๙๘๖ บาท ราคา/หน่วย (ถ้ามี)..... บาท
๔. แหล่งที่มาของราคากลาง (ราคาอ้างอิง)
 - ๔.๑ บริษัท NEC Corporation (Thailand) Ltd.
๕. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง (ราคาอ้างอิง) ทุกคน จำนวน ๖ คน
 - ๕.๑ นายรัฐกร เลิศไกร
 - ๕.๒ นายกิตติศักดิ์ สงวนพงศ์
 - ๕.๓ นายกิตติพงษ์ ปลื้มจิตร
 - ๕.๔ นายณัฐกร ศิริพูลศฤงษ์
 - ๕.๕ นายณดล ชุมศรี
 - ๕.๖ นายครรชิต ให้อวยชัย

* หมายเหตุ แนบเอกสารหลักฐานของแหล่งที่มาด้วย

ผู้รับผิดชอบ	ผู้เห็นชอบราคากลาง
ลงชื่อ  (นายรัฐกร เลิศไกร) ตำแหน่ง ผู้จัดการงานวิศวกรรมจราจร ทางอากาศ วันที่ ๓๑/กันยายน/๒๕๕๘	ลงชื่อ  (นายไพบูรณ์ ประจำวงษ์) ตำแหน่ง ผศว.สว. วันที่ ๓๐.../กันยายน/๒๕๕๘



Date : September 28, 2015

Quotation : NEC/CPSD-MS/15/080/SN

Quotation Validity : Within 30 days starting from the date of quotation.

Note: This price is included Value Added Tax (VAT)

Mr.Joji Yamamoto
Vice President
NEC Corporation (Thailand) Ltd.

Breakdown quantity List for Backbone Multiplexer for SVB A-B and TMK

Item #	Model	Description	Unit Price	Q'ty SVB A-B	Q'ty TMK	Total Q'ty	Sub-Total, THB
1	Loop-O9500 SDH/SONET IMAP						
1.1	O9500-R-CHAA-G	6U height Rack chassis support up to 2.5G Mbps mapping bandwidth for	34,607	22	8	30	1,038,210.00
1.2	O9500-R-CBA-G	Connector Board, One required for each chassis.	6,998	22	8	30	209,940.00
1.3	O9500-R-FANA-G	Fan Tray. Require one for each chassis	13,096	22	8	30	392,880.00
1.4	O9500-R-CC16-G	CPU card with 2* STM 1/4/16 (OC-3/12/48) w/o SFP optical modules	141,595	44	16	60	8,495,700.00
1.5	SPF optical module=PLB2D	Single mode optical module with dual uni-directional fiber, 2.5G, 1310nm, 10km, LC connector with DDM	4,114	14	16	30	123,420.00
1.6	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	1,561	26	0	26	40,586.00
1.7	O9500-R-SD48-G	Single DC supply (48Vdc)	9,929	44	16	60	595,740.00
2	High Speed Card						
2.1	O9500-R-9EoS4SW-G	1 GbE and 8FE interface plug-in module with L2 switch	51,533	0	0	0	0.00
2.2	O9500-R-9EoS4SW-G	1 GbE or 8FE software programmable plug-in card without L2 switch	40,659	0	0	0	0.00
2.3	O9500-R-16E75-G	16 E1(75 ohm) plug-in card	32,385	16	4	20	647,700.00
2.4	O9500-R-32E75-G	32 E1(75 ohm) plug-in card	37,586	3	4	7	263,102.00
2.5	O9500-R-63E75-G	63 E1(75 ohm) plug-in card	57,442	2	0	2	114,884.00
2.6	O9500-R-B16-G	STM-1/4 (OC-3/12) software configurable plug-in card without SFP (mini-GBIC) optical modules	48,696	1	0	1	48,696.00
2.7	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	1,561	1	0	1	1,561.00
3	Low Speed Card						
3.1	O9500-R-12FXO-GM-G	12-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	26,003	3	0	3	78,009.00
3.2	O9500-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	16,784	19	20	39	654,576.00
3.3	O9500-R-8EM-E-G	8-channel 2W/4W E&M plug-in card with 8 RJ45, For E follows ETSI signaling bits.	19,526	16	8	24	468,624.00
3.4	O9500-R-8RS232-DB- G	8-port RS232 plug-in card with X.50 substrate multiplexing scheme and X.54 encoding, with 2 RJ48 connectors and 2 DB44 connectors for Async and Sync ports, Two conversion cables are included (DB44 connector to two DB25 and one DB9 connector; (Loop-ACC-CAB-DB44M-100- 2DB25F-1DB09F-DB).	15,413	28	0	28	431,564.00
3.5	O9500-R -6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbps per channel) Please order conversion cable connector below.	14,562	1	0	1	14,562.00
3.6	O9500-R-4GH-G	4-channel G.SHDSL plug-in card (1 pair)	18,439	9	0	9	165,951.00
4	Accessories/Spare Parts Options						
4.1	Loop-ACC-P-1SCSI-16RJ-G	1u panel for one SCSI to 16 RJ connectors without cable	8,605	30	12	42	361,410.00

4.2	Loop-ACC-CAB-SCSI68M-200-1SCSI68M-G	SCSI 68 pin/Male to SCSI 68 pin/Male Extension Cable Length:200cm	2,459	30	12	42	103,278.00
4.3	30.001076.A00LF	Power Blank Plate RoHS	710	0	0	0	0.00
4.4	30.001077.A00LF	Blank panel for High-speed slots (Slots 1-4)	662	66	24	90	59,580.00
4.5	30.001027.A00LF	Blank Panel for Low-speed slots (Slots 11-16)	521	55	20	75	39,075.00
4.6	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	851	0	0	0	0.00
Total Amount in THB:							14,349,048.00

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Item #	Model	Description	Unit Price	Q'ty SVB A-B	Q'ty TMK	Total Q'ty	Sub-Total, THB
1	AM3440 (E1 MUX)		0				
1.1	AM3440-CHAJ-G	Wideband Main Unit without CPU, power and plug-in cards	17,966	7	4	11	197,626.00
1.2	AM3440-CCA-E-G	CPU card with E1 External Clock (order two for redundancy)	21,086	14	8	22	463,892.00
1.3	AM3440-S5-G	Single -48 Vdc (-36 to -75 Vdc) Power Module (150W)	8,321	14	8	22	183,062.00
1.4	AM3440-M4E75-G	Mini Quad E1 plug-in card with 75 ohm	17,493	7	4	11	192,423.00
1.5	AM3440-4E1-RJ-G	4-channel E1 plug-in card	14,562	0	0	0	0.00
1.6	AM3440-R-12FXO-GM-G	12-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	27,421	3	16	19	520,999.00
1.7	AM3440-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	17,729	0	0	0	0.00
1.8	AM3440-R-8EM-E-G	8-channel 2W/4W E&M plug-in card with 8 RJ45	19,526	71	0	71	1,386,346.00
1.9	AM3440-8RS232-DB-G	8-port RS232 plug-in card with X.50 substrate multiplexing scheme and X.54 encoding, with 2RJ48 connectors and 2 DB44 connectors for Async and Sync ports	15,413	5	0	5	77,065.00
1.10	AM3440-6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbits per channel) Please order conversion cable connector below.	14,562	1	0	1	14,562.00
1.11	AM3440-RTA-G	2-LAN ports/64 WAN port router/bridge plug-in card	13,191	7	4	11	145,101.00
1.12	30.000331.A00-G	Blank Panel for Slot 1-12 (flat)	190	3	32	35	6,650.00
1.13	30.000335.A00-G	Blank Panel for mini Slot A-D (flat)	142	14	8	22	3,124.00
1.14	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	851	0	0	0	0.00
Total Amount in THB:							3,190,850.00

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Grand Total Amount in THB: 17,539,898.00



Date : September 28, 2015

Quotation : NEC/CPSD-MS/15/081/SN

Quotation Validity : Within 30 days starting from the date of quotation.

Note: This price is included Value Added Tax (VAT)

Mr.Joji Yamamoto
Vice President
NEC Corporation (Thailand) Ltd.

Breakdown quantity List for Backbone Multiplexer for MOPS

Item #	Model	Description	Unit Price	Q'ty MOPS A	Q'ty MOPS B	Total Q'ty	Sub-Total, THB
1	Loop-O9500 SDH/SONET IMAP						
1.1	O9500-R-CHAA-G	6U height Rack chassis support up to 2.5G Mbps mapping bandwidth for O9500R	73,059	1	1	2	146,118.00
1.2	O9500-R-CBA-G	Connector Board, One required for each chassis.	14,772	1	1	2	29,544.00
1.3	O9500-R-FANA-G	Fan Tray. Require one for each chassis	27,647	1	1	2	55,294.00
1.4	O9500-R-CC16-G2	CPU card with 2* STM 1/4/16 (OC-3/12/48) w/o SFP optical modules	260,000	2	2	4	1,040,000.00
1.5	SPF optical module=PLB2D	Single mode optical module with dual uni-directional fiber, 2.5G, 1310nm, 10km, LC connector with DDM	8,684	2	2	4	34,736.00
1.6	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	3,294	2	0	2	6,588.00
1.7	O9500-R-SD48-G	Single DC supply (48Vdc)	20,960	2	2	4	83,840.00
2	High Speed Card						
2.1	O9500-R-9EoS4SW-G	1 GbE and 8FE interface plug-in module with L2 switch	108,790	0	0	0	0.00
2.2	O9500-R-9EoS4SW-G	1 GbE or 8FE software programmable plug-in card without L2 switch	85,835	0	0	0	0.00
2.3	O9500-R-16E75-G	16 E1(75 ohm) plug-in card	68,368	0	0	0	0.00
2.4	O9500-R-32E75-G	32 E1(75 ohm) plug-in card	79,347	1	0	1	79,347.00
2.5	O9500-R-63E75-G	63 E1(75 ohm) plug-in card	121,266	0	1	1	121,266.00
2.6	O9500-R-B16-G	STM-1/4 (OC-3/12) software configurable plug-in card without SFP (mini-GBIC) optical modules	102,802	1	0	1	102,802.00
2.7	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	3,294	1	0	1	3,294.00
3	Low Speed Card						
3.1	O9500-R-12FXO-GM-G	12-channel FXO plug-in card with 600/ 900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	54,894	0	0	0	0.00
3.2	O9500-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/ 900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	35,432	5	5	10	354,320.00
3.3	O9500-R-8EM-E-G	8-channel 2W/4W E&M plug-in card with 8 RJ45, For E follows ETSI signaling bits.	41,221	0	0	0	0.00
3.4	O9500-R-8RS232-DB- G	8-port RS232 plug-in card with X.50 subrate multiplexing scheme and X.54 encoding, with 2 RJ48 connectors and 2 DB44 connectors for Async and Sync ports, Two conversion cables are included (DB44 connector to two DB25 and one DB9 connector; (Loop-ACC-CAB-DB44M-100- 2DB25F-1DB09F-DB).	32,538	0	0	0	0.00
3.5	O9500-R -6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbps per channel) Please order conversion cable connector below.	30,741	0	0	0	0.00
3.6	O9500-R-4GH-G	4-channel G.SHDSL plug-in card (1 pair)	38,925	0	0	0	0.00
4	Accessories/Spare Parts Options						
4.1	Loop-ACC-P-1SCSI-16RJ-G	1u panel for one SCSI to 16 RJ connectors without cable	18,165	2	4	6	108,990.00
4.2	Loop-ACC-CAB-SCSI68M-200-1SCSI68M-G	SCSI 68 pin/Male to SCSI 68 pin/Male Extension Cable Length:200cm	5,190	2	4	6	31,140.00

4.3	30.001076.A00LF	Power Blank Plate RoHS	1,498	0	0	0	0.00
4.4	30.001077.A00LF	Blank panel for High-speed slots (Slots 1-4)	1,398	2	3	5	6,990.00
4.5	30.001027.A00LF	Blank Panel for Low-speed slots (Slots 11-16)	1,098	1	1	2	2,196.00
4.6	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	1,797	0	0	0	0.00
Total Amount in THB:							2,206,465.00

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Item #	Model	Description	Unit Price	Q'ty MOPS A	Q'ty MOPS B	Total Q'ty	Sub-Total, THB
1	AM3440 (E1 MUX)		0				
1.1	AM3440-CHAJ-G	Wideband Main Unit without CPU, power and plug-in cards	37,927	3	3	6	227,562.00
1.2	AM3440-CCA-E-G	CPU card with E1 External Clock (order two for redundancy)	44,515	6	6	12	534,180.00
1.3	AM3440-S5-G	Single -48 Vdc (-36 to -75 Vdc) Power Module (150W)	17,567	6	6	12	210,804.00
1.4	AM3440-M4E75-G	Mini Quad E1 plug-in card with 75 ohm	36,929	3	3	6	221,574.00
1.5	AM3440-4E1-RJ-G	4-channel E1 plug-in card	30,741	0	0	0	0.00
1.6	AM3440-R-12FXO-GM-G	12-channel FXO plug-in card with 600/ 900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	57,889	3	3	6	347,334.00
1.7	AM3440-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/ 900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	37,428	0	0	0	0.00
1.8	AM3440-R-8EM-E-G	8-channel 2W/4W E&M plug-in card with 8 RJ45	41,221	25	25	50	2,061,050.00
1.9	AM3440-8RS232-DB-G	8-port RS232 plug-in card with X.50 substrate multiplexing scheme and X.54 encoding, with 2RJ48 connectors and 2 DB44 connectors for Async and Sync ports	32,538	5	5	10	325,380.00
1.10	AM3440-6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbps per channel) Please order conversion cable connector below.	30,741	1	1	2	61,482.00
1.11	AM3440-RTA-G	2-LAN ports/64 WAN port router/bridge plug-in card	27,847	3	1	4	111,388.00
1.12	30.000331.A00-g	Blank Panel for Slot 1-12 (flat)	400	1	1	2	800.00
1.13	30.000335.A00-g	Blank Panel for mini Slot A-D (flat)	300	6	8	14	4,200.00
1.14	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	1,797	0	0	0	0.00
Total Amount in THB:							4,105,754.00

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Grand Total Amount in THB: 6,312,219.00



Date : September 28, 2015

Quotation : NEC/CPSD-MS/15/083/SN

Quotation Validity : Within 30 days starting from the date of quotation.

Note: This price is included Value Added Tax (VAT)

Mr.Joji Yamamoto
Vice President
NEC Corporation (Thailand) Ltd.

Breakdown quantity List for Backbone Multiplexer for ChiangMai and Phuket

Item #	Model	Description	Unit Price	Q'ty AOAS		Total Q'ty	Sub-Total, THB
1	Loop-O9500 SDH/SONET IMAP						
1.1	O9500-R-CHAA-G	6U height Rack chassis support up to 2.5G Mbps mapping bandwidth for O9500R	73,059	4		4	292,236.00
1.2	O9500-R-CBA-G	Connector Board, One required for each chassis.	14,772	4		4	59,088.00
1.3	O9500-R-FANA-G	Fan Tray. Require one for each chassis	27,647	4		4	110,588.00
1.4	O9500-R-CC16-G	CPU card with 2* STM 1/4/16 (OC-3/12/48) w/o SFP optical modules	298,923	8		8	2,391,384.00
1.5	SPF optical module=PLB2D	Single mode optical module with dual uni-directional fiber, 2.5G, 1310nm, 10km, LC connector with DDM	8,684	4		4	34,736.00
1.6	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	3,294	0		0	0.00
1.7	O9500-R-SD48-G	Single DC supply (48Vdc)	20,960	8		8	167,680.00
2	High Speed Card						
2.1	O9500-R-9EoS4SW-G	1 GbE and 8FE interface plug-in module with L2 switch	108,790	4		4	435,160.00
2.2	O9500-R-9EoS4SW-G	1 GbE or 8FE software programmable plug-in card without L2 switch	85,835	0		0	0.00
2.3	O9500-R-16E75-G	16 E1(75 ohm) plug-in card	68,368	4		4	273,472.00
2.4	O9500-R-32E75-G	32 E1(75 ohm) plug-in card	79,347	0		0	0.00
2.5	O9500-R-63E75-G	63 E1(75 ohm) plug-in card	121,266	0		0	0.00
2.6	O9500-R-B16-G	STM-1/4 (OC-3/12) software configurable plug-in card without SFP (mini-GBIC) optical modules	102,802	0		0	0.00
2.7	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	3,294	0		0	0.00
3	Low Speed Card						
3.1	O9500-R-12FXO-GM-G	12-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	54,894	0		0	0.00
3.2	O9500-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	35,432	0		0	0.00
3.3	O9500-R-8EM-E-G	8-channel 2W/4W E&M plug-in card with 8 RJ45, For E follows ETSI signaling bits.	41,221	8		8	329,768.00
3.4	O9500-R-8RS232-DB- G	8-port RS232 plug-in card with X.50 substrate multiplexing scheme and X.54 encoding, with 2 RJ48 connectors and 2 DB44 connectors for Async and Sync ports, Two conversion cables are included (DB44 connector to two DB25 and one DB9 connector; (Loop-ACC-CAB-DB44M-100- 2DB25F-1DB09F-DB).	32,538	0		0	0.00
3.5	O9500-R-6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbits per channel) Please order conversion cable connector below.	30,741	0		0	0.00
3.6	O9500-R-4GH-G	4-channel G.SHDSL plug-in card (1 pair)	38,925	0		0	0.00
4	Accessories/Spare Parts Options						
4.1	Loop-ACC-P-1SCSI-16RJ-G	1u panel for one SCSI to 16 RJ connectors without cable	18,165	4		4	72,660.00
4.2	Loop-ACC-CAB-SCSI68M-200-1SCSI68M-G	SCSI 68 pin/Male to SCSI 68 pin/Male Extension Cable Length:200cm	5,190	4		4	20,760.00
4.3	30.001076.A00LF	Power Blank Plate RoHS	1,498	0		0	0.00

4.4	30.001077.A00LF	Blank panel for High-speed slots (Slots 1-4)	1,398	4		4	5,592.00
4.5	30.001027.A00LF	Blank Panel for Low-speed slots (Slots 11~16)	1,098	12		12	13,176.00
4.6	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	1,797	0		0	0.00
Total Amount in THB:							4,206,300.00

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(264)

Item #	Model	Description	Unit Price	Q'ty AOAS		Total Q'ty	Sub-Total, THB
1	AM3440 (E1 MUX)		0				
1.1	AM3440-CHAJ-G	Wideband Main Unit without CPU, power and plug-in cards	37,927	0		0	0.00
1.2	AM3440-CCA-E-G	CPU card with E1 External Clock (order two for redundancy)	44,515	0		0	0.00
1.3	AM3440-S5-G	Single -48 Vdc (-36 to -75 Vdc) Power Module (150W)	17,567	0		0	0.00
1.4	AM3440-M4E75-G	Mini Quad E1 plug-in card with 75 ohm	36,929	0		0	0.00
1.5	AM3440-4E1-RJ-G	4-channel E1 plug-in card	30,741	0		0	0.00
1.6	AM3440-R-12FXO-GM-G	12-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	57,889	0		0	0.00
1.7	AM3440-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	37,428	0		0	0.00
1.8	AM3440-R-8EM-E-G	8-channel 2W/4W E&M plug-in card with 8 RJ45	41,221	0		0	0.00
1.9	AM3440-8RS232-DB-G	8-port RS232 plug-in card with X.50 substrate multiplexing scheme and X.54 encoding, with 2RJ48 connectors and 2 DB44 connectors for Async and Sync ports	32,538	0		0	0.00
1.10	AM3440-6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbps per channel) Please order conversion cable connector below.	30,741	0		0	0.00
1.11	AM3440-RTA-G	2-LAN ports/64 WAN port router/bridge plug-in card	27,847	0		0	0.00
1.12	30.000331.A00-G	Blank Panel for Slot 1-12 (flat)	400	0		0	0.00
1.13	30.000335.A00-G	Blank Panel for mini Slot A-D (flat)	300	0		0	0.00
1.14	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	1,797	0		0	0.00
Total Amount in THB:							0.00

0
(84)

Grand Total Amount in THB: 4,206,300.00



NEC CORPORATION (THAILAND) LTD.

159/37 23RD FL., 159/38 24TH FL SERMMIT TOWER, SUKHUMVIT 21 ROAD, KLONGTOEY NUA, WATTANA, BANGKOK 10110

HEAD OFFICE, TAX NUMBER 0135531000714

To : Aeronautical Radio of Thailand
Attn :
Tel :
Discription & Price : Backbone Multiplexer (Multiservice Access plat form NGN)

Date : September 28, 2015

Quotation : NEC/CPSD-MS/15/082/SN

Terms of Payment : 100% within 30 days starting from the date of delivery.

Time of Delivery : Within 90 days starting from the date of P/O.

Warranty Period : 1 Year starting from the date of delivery.

Quotation Validity : Within 30 days starting from the date of quotation.

ITEM NO.	DESCRIPTION	QTY		UNIT PRICE (Baht)	AMOUNT (Baht)
1	Loop-Multiplexer, High Speed and Low Speed Mux for UdonThani	Lot	1	4,059,800	4,059,800
					-
2	Instalallation and Commissioning	Lot	1	Including	Including
					-
					-
					-
					-
					-
					-

Total	4,059,800
VAT 7%	284,186
Grand Total	4,343,986

Note: This price is included Value Added Tax (VAT)

Mr.Joji Yamamoto
Vice President
NEC Corporation (Thailand) Ltd.

Breakdown quantity List for Backbone Multiplexer for UdonThani

Item #	Model	Description	Unit Price	Q'ty UND		Total Q'ty	Sub-Total, THB
1	Loop-O9500 SDH/SONET IMAP						
1.1	O9500-R-CHAA-G	6U height Rack chassis support up to 2.5G Mbps mapping bandwidth for O9500R	73,059	4		4	292,236.00
1.2	O9500-R-CBA-G	Connector Board, One required for each chassis.	14,772	4		4	59,088.00
1.3	O9500-R-FANA-G	Fan Tray. Require one for each chassis	27,647	4		4	110,588.00
1.4	O9500-R-CC16-G2	CPU card with 2* STM 1/4/16 (OC-3/12/48) w/o SFP optical modules	260,000	8		8	2,080,000.00
1.5	SPF optical module=PLB2D	Single mode optical module with dual uni-directional fiber, 2.5G, 1310nm, 10km, LC connector with DDM	8,684	4		4	34,736.00
1.6	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	3,294	0		0	0.00
1.7	O9500-R-SD48-G	Single DC supply (48Vdc)	20,960	8		8	167,680.00
2	High Speed Card						
2.1	O9500-R-9EoS4SW-G	1 GbE and 8FE interface plug-in module with L2 switch	108,790	4		4	435,160.00
2.2	O9500-R-9EoS4SW-G	1 GbE or 8FE software programmable plug-in card without L2 switch	85,835	0		0	0.00
2.3	O9500-R-16E75-G	16 E1(75 ohm) plug-in card	68,368	4		4	273,472.00
2.4	O9500-R-32E75-G	32 E1(75 ohm) plug-in card	79,347	0		0	0.00
2.5	O9500-R-63E75-G	63 E1(75 ohm) plug-in card	121,266	0		0	0.00
2.6	O9500-R-B16-G	STM-1/4 (OC-3/12) software configurable plug-in card without SFP (mini-GBIC) optical modules	102,802	0		0	0.00
2.7	SPF optical module=PJB2D	Single mode optical module with dual uni-directional fiber, 155M ~ 622M, 1310nm, 15-20km, LC connector with DDM	3,294	0		0	0.00
3	Low Speed Card						
3.1	O9500-R-12FXO-GM-G	12-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	54,894	0		0	0.00
3.2	O9500-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	35,432	0		0	0.00
3.3	O9500-R-8EM-E-G	8-channel 2W/4W E&M plug-in card with 8 RJ45, For E follows ETSI signaling bits.	41,221	12		12	494,652.00
3.4	O9500-R-8RS232-DB- G	8-port RS232 plug-in card with X.50 subrate multiplexing scheme and X.54 encoding, with 2 RJ48 connectors and 2 DB44 connectors for Async and Sync ports, Two conversion cables are included (DB44 connector to two DB25 and one DB9 connector; (Loop-ACC-CAB-DB44M-100- 2DB25F-1DB09F-DB).	32,538	0		0	0.00
3.5	O9500-R-6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbps per channel) Please order conversion cable connector below.	30,741	0		0	0.00
3.6	O9500-R-4GH-G	4-channel G.SHDSL plug-in card (1 pair)	38,925	0		0	0.00
4	Accessories/Spare Parts Options						
4.1	Loop-ACC-P-1SCSI-16RJ-G	1u panel for one SCSI to 16 RJ connectors without cable	18,165	4		4	72,660.00
4.2	Loop-ACC-CAB-SCSI68M-200-1SCSI68M-G	SCSI 68 pin/Male to SCSI 68 pin/Male Extension Cable Length:200cm	5,190	4		4	20,760.00
4.3	30.001076.A00LF	Power Blank Plate RoHS	1,498	0		0	0.00

4.4	30.001077.A00LF	Blank panel for High-speed slots (Slots 1-4)	1,398	4		4	5,592.00
4.5	30.001027.A00LF	Blank Panel for Low-speed slots (Slots 11~16)	1,098	12		12	13,176.00
4.6	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	1,797	0		0	0.00
Total Amount in THB:							4,059,800.00

76
(260)

Item #	Model	Description	Unit Price	Q'ty UND		Total Q'ty	Sub-Total, THB
1	AM3440 (E1 MUX)		0				
1.1	AM3440-CHAJ-G	Wideband Main Unit without CPU, power and plug-in cards	37,927	0		0	0.00
1.2	AM3440-CCA-E-G	CPU card with E1 External Clock (order two for redundancy)	44,515	0		0	0.00
1.3	AM3440-S5-G	Single -48 Vdc (-36 to -75 Vdc) Power Module (150W)	17,567	0		0	0.00
1.4	AM3440-M4E75-G	Mini Quad E1 plug-in card with 75 ohm	36,929	0		0	0.00
1.5	AM3440-4E1-RJ-G	4-channel E1 plug-in card	30,741	0		0	0.00
1.6	AM3440-R-12FXO-GM-G	12-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse] Used with 12 RJ11.	57,889	0		0	0.00
1.7	AM3440-R-12FXS-GMP-PWR-G	12-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]. Used with 12 RJ11.	37,428	0		0	0.00
1.8	AM3440-R-8EM-E- G	8-channel 2W/4W E&M plug-in card with 8 RJ45	41,221	0		0	0.00
1.9	AM3440-8RS232-DB- G	8-port RS232 plug-in card with X.50 substrate multiplexing scheme and X.54 encoding, with 2RJ48 connectors and 2 DB44 connectors for Async and Sync ports	32,538	0		0	0.00
1.10	AM3440-6V35A-G	6-channel V.35 plug-in card with DB25S connector, for M34. (2Mbits per channel) Please order conversion cable connector below.	30,741	0		0	0.00
1.11	AM3440-RTA-G	2-LAN ports/64 WAN port router/bridge plug-in card	27,847	0		0	0.00
1.12	30.000331.A00-G	Blank Panel for Slot 1-12 (flat)	400	0		0	0.00
1.13	30.000335.A00-G	Blank Panel for mini Slot A-D (flat)	300	0		0	0.00
1.14	Loop-ACC-CAB-DB25M-30-1M34F	DSUB-25pin/Male to M34/Female V.35 Conversion cable, Length: 30 cm	1,797	0		0	0.00
Total Amount in THB:							0.00

0
(84)

Grand Total Amount in THB: 4,059,800.00