

Subhead- 16
Public Address & Sound System

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.1	Line Array Speaker System					
16.1.i	Supply, Installation, Testing & Commissioning of Two-Way Line Array type Main Auditorium Speaker including accessories of following technical specification or equivalent- Frequency Response: 87Hz-16 kHz Long term / Continuous power- LF: 400W-500W, HF: 30W-120W Program- LF: 800W-1000W, HF: 60W-240W Short term/ Peak power- LF: 1600W-2000W, HF: 120W-480W Nominal Impedance: 8-16 ohm, Calculated Maximum SPL @ 1 m- LF: 122-128dB , HF: 128-132dB. Coverage Pattern: At least 90° H x 10° V CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	433,394.00	433,371.00	433,288.00	433,288.00

Handwritten signatures and initials in blue and black ink are present below the table, including a large signature on the left and several smaller initials and marks scattered across the bottom of the page.

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.1.2	Supply, Installation, Testing & Commissioning of dual driver Two-Way Line Array type Main Auditorium Speaker including accessories of following technical specification or equivalent- Frequency Response: 87Hz-15.3 kHz Long term / Continuous power- LF: 600W-800W, HF: 50W-150W Program- LF: 1200W-1600W, HF: 100W-260W Short term/ Peak power- LF: 2400W-3200W, HF: 200W-500W Nominal Impedance: 8-16 ohm, Calculated Maximum SPL @ 1 m- LF: 128-135dB , HF: 132-139dB. Coverage Pattern: At least 100° H x 10° V CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	791,078.00	791,056.00	790,973.00	790,973.00

16.2 Point Source Speaker System

- 16.2.1 Supply, Installation, Testing & Commissioning of Two-Way Point Source type Speaker (suitable for small medium convention hall, gallery etc.) including accessories of following technical specification or equivalent-
Frequency Response: 75Hz-18 kHz
System power- Long term / Continuous power: 80W-120W, Program: 160W-240W, Short term/ Peak power: 320W-480W
Nominal Impedance: 8 ohm,
Calculated Maximum SPL @ 1 m: 90-115dB.
Coverage Pattern: At least 60° H x 60° V
CE Certified/UL Listed
Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
Model & sample to be approved by the Engineer in charge.

Each	97,182.00	97,160.00	97,077.00	97,077.00
------	-----------	-----------	-----------	-----------

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

16.2.2 Supply, Installation, Testing & Commissioning of Two-Way Point Source type Speaker (suitable for small medium convention hall, gallery etc.) including accessories of following technical specification or equivalent-
 Frequency Response: 75Hz-18 kHz
 System power- Long term / Continuous power: 150W-200W, Program: 300W-400W, Short term/ Peak power: 600W-800W
 Nominal Impedance: 8 ohm,
 Calculated Maximum SPL @ 1 m: 116-123dB.
 Coverage Pattern: At least 60° H x 60° V
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

121,723.00 121,701.00 121,618.00 121,618.00

16.2.3 Supply, Installation, Testing & Commissioning of Two-Way Point Source type Main Auditorium Speaker including accessories of following technical specification or equivalent-
 Frequency Response: 70Hz-16 kHz
 System power- Long term / Continuous power: 350W-400W, Program: 700W-800W, Short term/ Peak power: 1400W-1600W
 Nominal Impedance: 8 ohm,
 Calculated Maximum SPL @ 1 m: 128-135dB.
 Coverage Pattern: At least 80° H x 50° V
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 167,124.00 167,102.00 167,018.00 167,018.00

[Handwritten signatures and initials in blue and black ink, including 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z', 'aa', 'bb', 'cc', 'dd', 'ee', 'ff', 'gg', 'hh', 'ii', 'jj', 'kk', 'll', 'mm', 'nn', 'oo', 'pp', 'qq', 'rr', 'ss', 'tt', 'uu', 'vv', 'ww', 'xx', 'yy', 'zz', 'aa', 'bb', 'cc', 'dd', 'ee', 'ff', 'gg', 'hh', 'ii', 'jj', 'kk', 'll', 'mm', 'nn', 'oo', 'pp', 'qq', 'rr', 'ss', 'tt', 'uu', 'vv', 'ww', 'xx', 'yy', 'zz']

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.2.4	<p>Supply, Installation, Testing & Commissioning of Two-Way Point Source type Main Auditorium Speaker including accessories of following technical specification or equivalent-</p> <p>Frequency Response: 70Hz-16 kHz</p> <p>System power- Long term / Continuous power: 500W-600W, Program: 1000W-1200W, Short term/ Peak power: 2000W-2400W</p> <p>Nominal Impedance: 8 ohm,</p> <p>Calculated Maximum SPL @ 1 m: 130-139dB.</p> <p>Coverage Pattern: At least 90° H x 45° V</p> <p>CE Certified/UL Listed</p> <p>Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.</p> <p>Model & sample to be approved by the Engineer in charge.</p>	Each	228,476.00	228,454.00	228,371.00	228,371.00
16.2.5	<p>Supply, Installation, Testing & Commissioning of Two-Way Point Source type Main Auditorium Speaker including accessories of following technical specification or equivalent-</p> <p>Frequency Response: 70Hz-16 kHz</p> <p>System power- Long term / Continuous power: 800W-1000W, Program: 1600W-2000W, Short term/ Peak power: 2400W-3000W</p> <p>Nominal Impedance: 4-8 ohm,</p> <p>Calculated Maximum SPL @ 1 m: 134-139dB.</p> <p>Coverage Pattern: At least 90° H x 45° V</p> <p>CE Certified/UL Listed</p> <p>Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.</p> <p>Model & sample to be approved by the Engineer in charge.</p>	Each	430,939.00	430,917.00	430,834.00	430,834.00

16.3 **Line Array Subwoofer System**

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.3.1	Supply, Installation, Testing & Commissioning of Line Array type Subwoofer including accessories of following technical specification or equivalent- Frequency Response: 40Hz-100 Hz@ ±3dB or 50Hz- 250 Hz @-6dB System power- Long term / Continuous power: 500W-550W, Program: 1000W-1100W, Short term/ Peak power: 2000W-2200W Nominal Impedance: 8 ohm, Calculated Maximum SPL @ 1 m: 130-139dB. CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	448,364.00	448,341.00	448,258.00	448,258.00
16.3.2	Supply, Installation, Testing & Commissioning of Line Array type Subwoofer including accessories of following technical specification or equivalent- Frequency Response: 32Hz- 220 Hz @-10dB System power- Long term / Continuous power: 800W-1200W, Program: 1600W-2400W, Short term/ Peak power: 3200W-4800W Nominal Impedance: 8 ohm, Calculated Maximum SPL @ 1 m: 130-145dB. CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	470,082.00	470,060.00	469,977.00	469,977.00
16.4	Point Source Subwoofer System					

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

16.4.1 Supply, Installation, Testing & Commissioning of Point Source type Subwoofer including accessories of following technical specification or equivalent-
 Frequency Response: 36Hz-250 Hz@ -10dB or 50Hz- 500 Hz @-6dB

 System power- Long term / Continuous power: 300W-400W, Program: 600W-800W, Short term/ Peak power: 1200W-1600W
 Nominal Impedance: 4-8 ohm,
 Calculated Maximum SPL @ 1 m: 126-132dB.
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 160,989.00 160,967.00 160,883.00 160,883.00

16.4.2 Supply, Installation, Testing & Commissioning of Point Source type Subwoofer including accessories of following technical specification or equivalent-
 Frequency Response: 32Hz-150 Hz@ -10dB or 38Hz- 200 Hz @-6dB
 System power- Long term / Continuous power: 500W-600W, Program: 1000W-1200W, Short term/ Peak power: 2000W-2400W
 Nominal Impedance: 4-8 ohm,
 Calculated Maximum SPL @ 1 m: 133-138dB.
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 240,747.00 240,725.00 240,641.00 240,641.00

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.4.3	Supply, Installation, Testing & Commissioning of Point Source type Subwoofer including accessories of following technical specification or equivalent- Frequency Response: 35Hz-1KHz@ ±3dB System power- Long term / Continuous power: 1600W-2000W, Program: 3200W-4000W, Short term/ Peak power: 6400W-8000W Nominal Impedance: 4-8 ohm, Calculated Maximum SPL @ 1 m: 135-148dB. CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	657,943.00	657,921.00	657,838.00	657,838.00
16.5	Stage Monitor Speaker					
16.5.1	Supply, Installation, Testing & Commissioning of 2 way Stage Monitor Speaker including accessories of following technical specification or equivalent- Frequency Response: 70Hz-16KHz System power- Long term / Continuous power: 250W-300W, Program: 500W-600W, Short term/ Peak power: 1000W-1200W Nominal Impedance: 4-8 ohm, Calculated Maximum SPL @ 1 m: 122-131dB. Coverage Pattern: At least 90° H x 50° V CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	187,984.00	187,962.00	187,878.00	187,878.00

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

16.5.2 Supply, Installation, Testing & Commissioning of 2 way Stage Monitor Speaker including accessories of following technical specification or equivalent-
 Frequency Response: 70Hz-20KHz
 System power- Long term / Continuous power: 500W-800W, Program: 1000W-1600W, Short term/ Peak power: 2000W-2400W
 Nominal Impedance: 4-8 ohm,
 Calculated Maximum SPL @ 1 m: 127-137dB.
 Coverage Pattern: At least 90° H x 45° V
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 228,476.00 228,454.00 228,371.00 228,371.00

16.6 Side Wall Speaker

16.6.1 Supply, Installation, Testing & Commissioning of 2 way Side Wall / Delay Speaker including accessories of following technical specification or equivalent-
 Frequency Response: 60Hz-18KHz
 System power- Long term / Continuous power: 150W-200W, Program: 200W-400W, Short term/ Peak power: 600W-800W
 Nominal Impedance: 4-8 ohm,
 SPL: 118-131dB
 Coverage Pattern: At least 60° H x 60° V
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 120,558.00 120,553.00 120,537.00 120,537.00

[Handwritten signatures and initials in blue and black ink are present at the bottom of the page, including a large signature on the left and several smaller ones on the right.]

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

16.6.2 Supply, Installation, Testing & Commissioning of 2 way Side Wall Speaker including accessories of following technical specification or equivalent-
 Frequency Response: 60Hz-18KHz
 System power- Long term / Continuous power: 250W-300W, Program: 500W-600W, Short term/ Peak power: 1000W-1200W
 Nominal Impedance: 4-8 ohm,
 SPL:118-131dB
 Coverage Pattern: At least 60° H x 60° V
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 148,780.00 148,775.00 148,759.00 148,759.00

16.7 **Front Fill Speaker**
 Supply, Installation, Testing & Commissioning of 2 way Front Fill Speaker including accessories of following technical specification or equivalent-
 Frequency Response: 70Hz-18KHz
 System power- Long term / Continuous power: 150W-250W, Program: 300W-500W, Short term/ Peak power: 600W-1000W
 Nominal Impedance: 4-8 ohm,

 SPL:100-120dB
 Coverage Pattern: At least 90° H x50° V
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 120,558.00 120,553.00 120,537.00 120,537.00

16.8 **Green Room / Control Room Speaker**

[Handwritten signatures and initials in blue and black ink, including 'M', 'A', 'S', 'D', 'R', 'K', 'L', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z', 'AA', 'AB', 'AC', 'AD', 'AE', 'AF', 'AG', 'AH', 'AI', 'AJ', 'AK', 'AL', 'AM', 'AN', 'AO', 'AP', 'AQ', 'AR', 'AS', 'AT', 'AU', 'AV', 'AW', 'AX', 'AY', 'AZ', 'BA', 'BB', 'BC', 'BD', 'BE', 'BF', 'BG', 'BH', 'BI', 'BJ', 'BK', 'BL', 'BM', 'BN', 'BO', 'BP', 'BQ', 'BR', 'BS', 'BT', 'BU', 'BV', 'BW', 'BX', 'BY', 'BZ', 'CA', 'CB', 'CC', 'CD', 'CE', 'CF', 'CG', 'CH', 'CI', 'CJ', 'CK', 'CL', 'CM', 'CN', 'CO', 'CP', 'CQ', 'CR', 'CS', 'CT', 'CU', 'CV', 'CW', 'CX', 'CY', 'CZ', 'DA', 'DB', 'DC', 'DD', 'DE', 'DF', 'DG', 'DH', 'DI', 'DJ', 'DK', 'DL', 'DM', 'DN', 'DO', 'DP', 'DQ', 'DR', 'DS', 'DT', 'DU', 'DV', 'DW', 'DX', 'DY', 'DZ', 'EA', 'EB', 'EC', 'ED', 'EE', 'EF', 'EG', 'EH', 'EI', 'EJ', 'EK', 'EL', 'EM', 'EN', 'EO', 'EP', 'EQ', 'ER', 'ES', 'ET', 'EU', 'EV', 'EW', 'EX', 'EY', 'EZ', 'FA', 'FB', 'FC', 'FD', 'FE', 'FF', 'FG', 'FH', 'FI', 'FJ', 'FK', 'FL', 'FM', 'FN', 'FO', 'FP', 'FQ', 'FR', 'FS', 'FT', 'FU', 'FV', 'FW', 'FX', 'FY', 'FZ', 'GA', 'GB', 'GC', 'GD', 'GE', 'GF', 'GG', 'GH', 'GI', 'GJ', 'GK', 'GL', 'GM', 'GN', 'GO', 'GP', 'GQ', 'GR', 'GS', 'GT', 'GU', 'GV', 'GW', 'GX', 'GY', 'GZ', 'HA', 'HB', 'HC', 'HD', 'HE', 'HF', 'HG', 'HH', 'HI', 'HJ', 'HK', 'HL', 'HM', 'HN', 'HO', 'HP', 'HQ', 'HR', 'HS', 'HT', 'HU', 'HV', 'HW', 'HX', 'HY', 'HZ', 'IA', 'IB', 'IC', 'ID', 'IE', 'IF', 'IG', 'IH', 'II', 'IJ', 'IK', 'IL', 'IM', 'IN', 'IO', 'IP', 'IQ', 'IR', 'IS', 'IT', 'IU', 'IV', 'IW', 'IX', 'IY', 'IZ', 'JA', 'JB', 'JC', 'JD', 'JE', 'JF', 'JG', 'JH', 'JI', 'JJ', 'JK', 'JL', 'JM', 'JN', 'JO', 'JP', 'JQ', 'JR', 'JS', 'JT', 'JU', 'JV', 'JW', 'JX', 'JY', 'JZ', 'KA', 'KB', 'KC', 'KD', 'KE', 'KF', 'KG', 'KH', 'KI', 'KJ', 'KK', 'KL', 'KM', 'KN', 'KO', 'KP', 'KQ', 'KR', 'KS', 'KT', 'KU', 'KV', 'KW', 'KX', 'KY', 'KZ', 'LA', 'LB', 'LC', 'LD', 'LE', 'LF', 'LG', 'LH', 'LI', 'LJ', 'LK', 'LL', 'LM', 'LN', 'LO', 'LP', 'LQ', 'LR', 'LS', 'LT', 'LU', 'LV', 'LW', 'LX', 'LY', 'LZ', 'MA', 'MB', 'MC', 'MD', 'ME', 'MF', 'MG', 'MH', 'MI', 'MJ', 'MK', 'ML', 'MN', 'MO', 'MP', 'MQ', 'MR', 'MS', 'MT', 'MU', 'MV', 'MW', 'MX', 'MY', 'MZ', 'NA', 'NB', 'NC', 'ND', 'NE', 'NF', 'NG', 'NH', 'NI', 'NJ', 'NK', 'NL', 'NM', 'NN', 'NO', 'NP', 'NQ', 'NR', 'NS', 'NT', 'NU', 'NV', 'NW', 'NX', 'NY', 'NZ', 'OA', 'OB', 'OC', 'OD', 'OE', 'OF', 'OG', 'OH', 'OI', 'OJ', 'OK', 'OL', 'OM', 'ON', 'OO', 'OP', 'OQ', 'OR', 'OS', 'OT', 'OU', 'OV', 'OW', 'OX', 'OY', 'OZ', 'PA', 'PB', 'PC', 'PD', 'PE', 'PF', 'PG', 'PH', 'PI', 'PJ', 'PK', 'PL', 'PM', 'PN', 'PO', 'PP', 'PQ', 'PR', 'PS', 'PT', 'PU', 'PV', 'PW', 'PX', 'PY', 'PZ', 'QA', 'QB', 'QC', 'QD', 'QE', 'QF', 'QG', 'QH', 'QI', 'QJ', 'QK', 'QL', 'QM', 'QN', 'QO', 'QP', 'QQ', 'QR', 'QS', 'QT', 'QU', 'QV', 'QW', 'QX', 'QY', 'QZ', 'RA', 'RB', 'RC', 'RD', 'RE', 'RF', 'RG', 'RH', 'RI', 'RJ', 'RK', 'RL', 'RM', 'RN', 'RO', 'RP', 'RQ', 'RR', 'RS', 'RT', 'RU', 'RV', 'RW', 'RX', 'RY', 'RZ', 'SA', 'SB', 'SC', 'SD', 'SE', 'SF', 'SG', 'SH', 'SI', 'SJ', 'SK', 'SL', 'SM', 'SN', 'SO', 'SP', 'SQ', 'SR', 'SS', 'ST', 'SU', 'SV', 'SW', 'SX', 'SY', 'SZ', 'TA', 'TB', 'TC', 'TD', 'TE', 'TF', 'TG', 'TH', 'TI', 'TJ', 'TK', 'TL', 'TM', 'TN', 'TO', 'TP', 'TQ', 'TR', 'TS', 'TT', 'TU', 'TV', 'TW', 'TX', 'TY', 'TZ', 'UA', 'UB', 'UC', 'UD', 'UE', 'UF', 'UG', 'UH', 'UI', 'UJ', 'UK', 'UL', 'UM', 'UN', 'UO', 'UP', 'UQ', 'UR', 'US', 'UT', 'UU', 'UV', 'UW', 'UX', 'UY', 'UZ', 'VA', 'VB', 'VC', 'VD', 'VE', 'VF', 'VG', 'VH', 'VI', 'VJ', 'VK', 'VL', 'VM', 'VN', 'VO', 'VP', 'VQ', 'VR', 'VS', 'VT', 'VU', 'VV', 'VW', 'VX', 'VY', 'VZ', 'WA', 'WB', 'WC', 'WD', 'WE', 'WF', 'WG', 'WH', 'WI', 'WJ', 'WK', 'WL', 'WM', 'WN', 'WO', 'WP', 'WQ', 'WR', 'WS', 'WT', 'WU', 'WV', 'WW', 'WX', 'WY', 'WZ', 'XA', 'XB', 'XC', 'XD', 'XE', 'XF', 'XG', 'XH', 'XI', 'XJ', 'XK', 'XL', 'XM', 'XN', 'XO', 'XP', 'XQ', 'XR', 'XS', 'XT', 'XU', 'XV', 'XW', 'XX', 'XY', 'XZ', 'YA', 'YB', 'YC', 'YD', 'YE', 'YF', 'YG', 'YH', 'YI', 'YJ', 'YK', 'YL', 'YM', 'YN', 'YO', 'YP', 'YQ', 'YR', 'YS', 'YT', 'YU', 'YV', 'YW', 'YX', 'YZ', 'ZA', 'ZB', 'ZC', 'ZD', 'ZE', 'ZF', 'ZG', 'ZH', 'ZI', 'ZJ', 'ZK', 'ZL', 'ZM', 'ZN', 'ZO', 'ZP', 'ZQ', 'ZR', 'ZS', 'ZT', 'ZU', 'ZV', 'ZW', 'ZX', 'ZY', 'ZZ']

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

Supply, Installation, Testing & Commissioning of self powered green room/ control room Speaker including accessories of following technical specification or equivalent-
 Frequency Response: 70Hz-18KHz
 System power- 35W-50W,
 Nominal Impedance: 4-8 ohm,
 SPL:100-115dB
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 50,861.00 50,856.00 50,840.00 50,840.00

16.9 **Ceiling Speaker**

Supply, Installation, Testing & Commissioning of Professional heavy duty, ceiling mounted speaker ideal for airports, lounges, convention centers, corporate boardrooms, hotels / hospitality, houses of worship, museums offices, of patois, spaces schools, theaters and theme parks, superior sound quantity, wide dispersion and smooth off-axis coverage of following technical specification or equivalent-
 Frequency range (nominal): 85Hz to 18 KHz. (±3db).
 Nominal impedance: 8Ω
 Nominal sensitivity(1w, 2m) : 90dB SPL
 Components : LF & HF driver.
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

16.9.1	1.5W-5W	Each	6,074.00	6,069.00	6,053.00	6,053.00
16.9.2	6W-12W	Each	10,737.00	10,732.00	10,716.00	10,716.00
16.9.3	15W-20W	Each	20,921.00	20,916.00	20,900.00	20,900.00
16.9.4	21W-30W	Each	27,915.00	27,910.00	27,894.00	27,894.00

[Handwritten signatures and initials in blue and black ink are present below the table rows, including names like 'Rahman', 'Suf', and 'Anwar']

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

16.10 **Column Speaker**

Supply, Installation, Testing & Commissioning of Column / wall speaker ideal for airports, lounges, convention centers, corporate boardrooms, hotels / hospitality, houses of worship, museums offices, of patois, spaces schools, theaters and theme parks, superior sound quantity, wide dispersion and smooth off-axis overage, superior sound quality, wide dispersion and smooth off axis coverage, fast and easy installation of following technical specification or equivalent-

Line voltage : 70V / 100V

Sensitivity : >85dB.

Frequency response: 150Hz-15KHz.

Enclosure material : Plastic Line

Dispersion angle : 100°.

CE Certified/UL Listed

Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.

Model & sample to be approved by the Engineer in charge.

16.10.1	10W - 15W	Each	18,099.00	18,094.00	18,078.00	18,078.00
16.10.2	16W - 20W	Each	21,780.00	21,775.00	21,759.00	21,759.00
16.10.3	21W - 30W	Each	24,234.00	24,229.00	24,213.00	24,213.00
16.10.4	50W - 60W	Each	31,596.00	31,592.00	31,576.00	31,576.00
16.10.5	70W - 80W	Each	50,616.00	50,611.00	50,595.00	50,595.00

16.11 **Garden Speaker**

Handwritten signatures and initials are present at the bottom of the page, including a blue signature and several other marks.

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

Supply, Installation, Testing & Commissioning of Garden Speaker of following technical specification or equivalent-
 10W-20W
 Sensitivity : 82-88dB
 Frequency response : 80Hz-15KHz.
 Coverage Angle: 360° horizontal, 160° vertical
 Minimum IP 55 rating
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 51,720.00 51,715.00 51,699.00 51,699.00

16.12 **Horn Speaker**

Supply, Installation, Testing & Commissioning of Horn Speaker of following technical specification or equivalent-
 15W-20W
 Sensitivity : 100-110dB
 Frequency response : 400 Hz – 7.5 kHz
 Minimum IP 65 rating
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 15,399.00 15,395.00 15,379.00 15,379.00

16.13 **Power Amplifier**

[Handwritten signatures and scribbles in black and blue ink are present below the table, including a large signature in blue ink above the 15,395.00 value and several other signatures in black ink.]

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

16.13.1 Supply, Installation, Testing & Commissioning of dual channel power amplifier including accessories of following technical specification or equivalent-
 Stereo Power Output : RMS (Dual Channels)- 8Ωx2: 215W- 350W ,4Ωx2: 350W- 460W
 Bridged Mono Power Output : RMS- 8Ωx1: 700W- 950W
 Frequency Response: 20Hz- 20 KHz
 Signal to Noise Ratio > 97 dB
 Total Harmonic Distortion (THD) <0.5%
 Power Supply: 120 or 230 Vac 50Hz.
 Class: AB/ D/ H
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 143,197.00 143,174.00 143,091.00 143,091.00

16.13.2 Supply, Installation, Testing & Commissioning of dual channel power amplifier including accessories of following technical specification or equivalent-
 Stereo Power Output : RMS (Dual Channels)- 8Ωx2: 475W- 630W ,4Ωx2: 800W- 1000W
 Bridged Mono Power Output : RMS- 8Ωx1: 1600W- 1950W
 Frequency Response: 20Hz- 20 KHz
 Signal to Noise Ratio ≥100 dB
 Total Harmonic Distortion (THD) <0.5%
 Power Supply: 120 or 230 Vac 50Hz.
 Class: H
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 191,542.00 191,520.00 191,437.00 191,437.00

(Handwritten signatures and initials are present below the table, including a blue signature on the left and several black signatures on the right.)

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.13.3	<p>Supply, Installation, Testing & Commissioning of dual channel power amplifier including accessories of following technical specification or equivalent-</p> <p>Stereo Power Output : RMS (Dual Channels)- 8Ωx2: 650W- 880W ,4Ωx2: 1200W- 1300W</p> <p>Bridged Mono Power Output : RMS- 8Ωx1: 2400W- 2600W</p> <p>Frequency Response: 20Hz- 20 KHz</p> <p>Signal to Noise Ratio ≥100 dB</p> <p>Total Harmonic Distortion (THD) <0.5%</p> <p>Power Supply: 120 or 230 Vac 50Hz.</p> <p>Class: H</p> <p>CE Certified/UL Listed</p> <p>Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.</p> <p>Model & sample to be approved by the Engineer in charge.</p>	Each	209,948.00	209,926.00	209,842.00	209,842.00
16.13.4	<p>Supply, Installation, Testing & Commissioning of 4 channel power amplifier including accessories of following technical specification or equivalent-</p> <p>Stereo Power Output : RMS - 8Ωx4: 1200W- 1900W ,4Ωx4: 2000W- 2400W</p> <p>Bridged Mono Power Output : RMS- 8Ωx2: 4000W- 4800W</p> <p>Frequency Response: 20Hz- 20 KHz</p> <p>Signal to Noise Ratio >108 dB</p> <p>Total Harmonic Distortion (THD) <0.35%</p> <p>Power Supply: 100 to 230 Vac 50Hz.</p> <p>Class: H</p> <p>CE Certified/UL Listed</p> <p>Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.</p> <p>Model & sample to be approved by the Engineer in charge.</p>	Each	372,532.00	372,510.00	372,426.00	372,426.00

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
----------	----------------------	------	---	--	--	--------------------------------------

16.14 **Mixing Console**

16.14.1 Supply, Installation, Testing & Commissioning of 16 channel mixing console of following technical specification or equivalent-
 Input Channels: 16 channels , stereo channels:2
 Output Channels: minimum Stereo Out: 2, Monitor Out: 1, Aux Send: 4, Group Out: 2
 Bus: 9 (minimum)
 Frequency Response : 22Hz - 20KHz
 Phantom Power Voltage +48 V
 High Pass Filter :80-100Hz, 12-18dB per octave
 Level Meter : 12 -segment LED meter
 Power Requirements AC 100-240 V, 50 Hz
 CE Certified/UL Listed
 Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.
 Model & sample to be approved by the Engineer in charge.

Each 198,905.00 198,860.00 198,694.00 198,694.00

[Handwritten signatures and initials in blue and black ink are present below the table, including a large signature on the left and several initials on the right.]

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.14.2	<p>Supply, Installation, Testing & Commissioning of 24 channel mixing console of following technical specification or equivalent-</p> <p>Input Channels: 24 channels , stereo channels:4</p> <p>Output Channels: minimum Stereo Out: 2, Monitor Out: 1, Aux Send: 4, Group Out: 4</p> <p>Bus: 9 (minimum)</p> <p>Frequency Response : 22Hz - 20KHz</p> <p>Phantom Power Voltage +48 V</p> <p>High Pass Filter :80-100Hz, 12-18dB per octave</p> <p>Level Meter : 12 -segment LED meter</p> <p>Power Requirements AC 100-240 V, 50 Hz</p> <p>CE Certified/UL Listed</p> <p>Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.</p> <p>Model & sample to be approved by the Engineer in charge.</p>	Each	274,982.00	274,937.00	274,771.00	274,771.00
16.14.3	<p>Supply, Installation, Testing & Commissioning of 32 channel mixing console of following technical specification or equivalent-</p> <p>Input Channels: 32 channels , stereo channels:4</p> <p>Output Channels: minimum Stereo Out: 2, Monitor Out: 1, Aux Send: 4, Group Out: 4</p> <p>Bus: 9 (minimum)</p> <p>Frequency Response : 22Hz - 20KHz</p> <p>Phantom Power Voltage +48 V</p> <p>High Pass Filter :80-100Hz, 12-18dB per octave</p> <p>Level Meter : 12 -segment LED meter</p> <p>Power Requirements AC 100-240 V, 50 Hz</p> <p>CE Certified/UL Listed</p> <p>Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.</p> <p>Model & sample to be approved by the Engineer in charge.</p>	Each	321,609.00	321,565.00	321,398.00	321,398.00

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.14.4	Supply, Installation, Testing & Commissioning of 32 channel Digital Mixing Console of following technical specification or equivalent- Input Channels: 32 channels (minimum), Output Channels: 16 XLR analogue line outputs (minimum), AES out Frequency Response : 22Hz - 20KHz Phantom Power Voltage +48 V Data I/O: 1 x Ethernet (minimum) USB: 1 (minimum) Faders: 26 x Motorized (minimum) Headphones: 1 x 1/4" A/D Resolution: 24-bit/48kHz Screen: minimum 5" Touchscreen Power Requirements AC 100-240 V, 50 Hz CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	867,278.00	867,234.00	867,067.00	867,067.00
16.15 Mixer Amplifier						
16.15.1	Supply, Installation, Testing & Commissioning of mixers-amplifier of following technical specification or equivalent- input : minimum 8 power output: 2 x 40W RMS input sensitivity: 4ohm/8ohm power supply: 100-240 Vac , 50 Hz CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	151,540.00	151,496.00	151,329.00	151,329.00

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.15.2	Supply, Installation, Testing & Commissioning of mixers-amplifier of following technical specification or equivalent- input : minimum 6 power output:2 x 250W RMS input sensitivity: 4ohm/8ohm power supply:100-240 Vac , 50 Hz CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	250,134.00	250,129.00	250,108.00	250,108.00
16.15.3	Supply, Installation, Testing & Commissioning of mixers-amplifier of following technical specification or equivalent- input : minimum 4 power output:120 RMS input sensitivity: 4ohm/8ohm Frequency Response 35-20000Hz power supply:100-240 Vac , 50 Hz CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	88,470.00	88,426.00	88,259.00	88,259.00

16.16 **Microphone**

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
16.16.1	Supply, Installation, Testing & Commissioning of vocal/ dynamic microphone of following technical specification or equivalent- Characteristics: Dynamic, Polar pattern: supercardioid/ cardioid, Frequency Response 80Hz~13 kHz, Output impedance 500-600ohm. CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	16,749.00	16,747.00	16,738.00	16,738.00
16.16.2	Supply, Installation, Testing & Commissioning of gooseneck/ podium microphone with on-off switch of following technical specification or equivalent- Polar pattern: cardioid Frequency Response 80Hz~18 kHz, Output impedance 220-600ohm. Maximum SPL: 120-125dB Microphone Length: 45 cm minimum CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge.	Each	53,070.00	53,067.00	53,059.00	53,059.00