



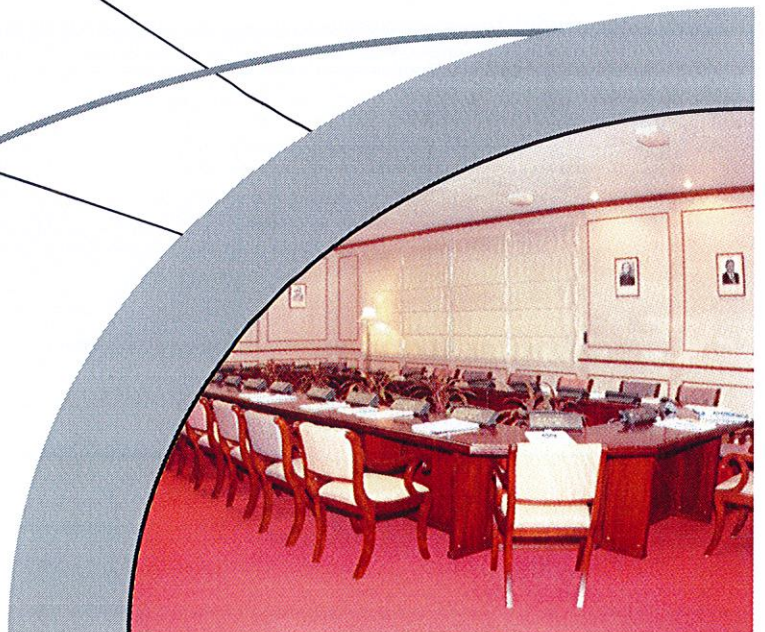
بسم الله الرحمن الرحيم

تذکرهٔ زمرهٔ معارف 2019

"سید محمد تقی میرزا، وزیر معارف و اوقاف و صنایع مستظرفه (رهبر معارف)"
مؤلف: میرزا محمد تقی میرزا، وزیر معارف و اوقاف و صنایع مستظرفه
تألیف و تدوین: میرزا محمد تقی میرزا، وزیر معارف و اوقاف و صنایع مستظرفه

17 آذر 1398

مجلهٔ سورهٔ مهر: 15/2019/6-1



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



مَدْرَسَةُ اَبْنِ مَسْرُورٍ وَصَحْبِهِ

دُخ

عَرَفُوا بِمَدْرَسَتِهِ

مذبحہ جعفر سرسره ہمدانی: 6-2019/2019

"لَا إِلَهَ إِلَّا أَنْتَ قَدِ انقَضَتْ سُلُوكُكَ وَأَمْرُكَ سَمِعْتُ وَأَطَعْتُ (مِنْ خَلْقِكَ بِرَحْمَتِكَ)"
 مَرْفُوعٌ بِمَنْزِلِ رَحْمَتِكَ وَبِغَيْرِ مَقَرٍّ مَرَّ بِكَ وَبِغَيْرِ مَقَرٍّ مَرَّ بِكَ
 قَدْ تَرَكْتُكَ وَتَرَكْتُكَ وَتَرَكْتُكَ وَتَرَكْتُكَ وَتَرَكْتُكَ وَتَرَكْتُكَ وَتَرَكْتُكَ وَتَرَكْتُكَ

1. **مَرْبُوعٌ**

[illegible]

2. דאס איז אַ פּאַרעלעלעם צווישן די צוויי זייטן:

[illegible]

د کورنۍ د 171 مېز د ژوند (م) د ترسره کېدو سره سم د 18 د مېز د 2019
مېز د 2019 مېز د ژوند د 1 مېز ترسره کېدو سره سم د 8 مېز د 2019

3. $\frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$ and $\frac{1}{6} \cdot \frac{1}{2} = \frac{1}{6}$

[illegible]

4. تَدْعُكَ، دَعَاكَ، دَعَوْتُكَ، دَعَوْتُهُ:

"اِنَّكَ قَدْ وَفَّقْتَنِي فِي هَذِهِ الْمَسْئَلَةِ" (وَمَا تَجِدُ فِي هَذِهِ الْمَسْئَلَةِ) "فَرَفَعْتَ رَجُلًا عَظِيمًا
 مَوْجِبًا لِّتَمَجُّدِكَ بِمَعْرِفَةِ نِعَمِكَ وَتَعْلَمُ أَنَّكَ تَجِدُ فِي هَذِهِ الْمَسْئَلَةِ
 سِرًّا عَظِيمًا، فَتَجِدُ فِي هَذِهِ الْمَسْئَلَةِ سِرًّا عَظِيمًا.

- [illegible]

3. دَسَرَتِي قَرَامِي دَسَرَتِي بَ دَو دَرِي دَرِي
4. دَرِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي
5. دَرِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي
6. دَسَرَتِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي
7. دَو دَرِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي
8. دَرِي دَرِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي
9. دَو دَرِي دَرِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي
10. دَسَرَتِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي
11. دَرِي دَرِي قَرَامِي دَسَرَتِي دَرِي دَرِي دَرِي دَرِي

[illegible]

6. لا تَجْعَلُوا دِينَكُمْ كَمَا جَعَلُوا دِينَهُمْ سُبُحًا مَّشْرُوعًا لِّمَنْ يَشَاءُ مِنْهُمْ وَكُلٌّ فِى هَٰذِهِ سَبِيلٌ

"إِنَّهُ قَدْ كَفَّرَ بِكَ وَأَنْتَ كَافِرٌ بِكَ" (أَنْتَ كَافِرٌ بِكَ) "فَقَدْ كَفَّرَ بِكَ وَأَنْتَ كَافِرٌ بِكَ"

1. "لەو قەتە فەرمایەتی بەڵێن کردووە کە ئەمە ئەمەڵێکی نەتەواوە (بەتەواوەیی) " 27 ئەو فەرمایەتی
 2014 کە ئەمەڵێکی فەرمایەتی بەڵێن کردووە کە ئەمە ئەمەڵێکی نەتەواوە (بەتەواوەیی) " 27 ئەو فەرمایەتی
 فەرمایەتی بەڵێن کردووە کە ئەمە ئەمەڵێکی نەتەواوە (بەتەواوەیی) " 27 ئەو فەرمایەتی
 فەرمایەتی بەڵێن کردووە کە ئەمە ئەمەڵێکی نەتەواوە (بەتەواوەیی) " 27 ئەو فەرمایەتی

[illegible][illegible]

7. تاجیک ۽ سرباز قوت:

دویمې او درېیمې ناستو په لاسلیک کې، د افغانستان د سولې د پیاوړتیا د کمیټې د غړو، د تاجیک ۽ سرباز قوت 171
قوت د واکمنۍ (س) 1 قوت د سولې د پیاوړتیا د کمیټې د غړو "لږ ډېر" د تاجیک ۽ سرباز قوت 171
د تاجیک ۽ سرباز قوت (د تاجیک ۽ سرباز قوت) د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت
د تاجیک ۽ سرباز قوت، 16 د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت 8 قوت
تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت.

د دواړو د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت
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دواړو، د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت د تاجیک ۽ سرباز قوت
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17 د تاجیک ۽ سرباز قوت 2019

[illegible][illegible][illegible]

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3/2019.و

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



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مَدْرَسَةُ دُھْمُونِيَّةِ دَلِيَّةِ دَرِيَّةِ 1	
مَدْرَسَةُ دُھْمُونِيَّةِ 1144	Dhumonia
تَلَفُونُ 8.59	تَلَفُونُ 11.3.2019
بَرُوْدَةُ دَلِيَّةِ دَرِيَّةِ D	
مَدْرَسَةُ دُھْمُونِيَّةِ	

مَدْرَسَةُ دُھْمُونِيَّةِ

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مَدْرَسَةُ دُھْمُونِيَّةِ دَلِيَّةِ دَرِيَّةِ

سَنَ دُھْمُونِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ
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 مَدْرَسَةُ دُھْمُونِيَّةِ دَلِيَّةِ دَرِيَّةِ 2019 دَلِيَّةِ دَرِيَّةِ 29 دَلِيَّةِ دَرِيَّةِ
 دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ
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 مَدْرَسَةُ دُھْمُونِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ
 مَدْرَسَةُ دُھْمُونِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ دَلِيَّةِ دَرِيَّةِ

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السَّوْنُ قَوْمٌ قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ
 (أَرَضِيَهُمْ قَوْمٌ) " قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ
 أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ
 قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ قَوْمٌ أَرَضِيَهُمْ

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3 مَرْحُومٌ 1440

10 دسمبر 2019

زنگنه



وَقَدْ كَرِهَ الْغُزَاةُ أَنْ يُسَارِعُوا فِيهِ بِغُلَّةٍ الْغَنَاءِ لِيُفْنِنُوا فِيهِ

مکرمہ برحقہ سرمدی و جہانگیر

حرف

٤٥١

Male', Republic of Maldives.

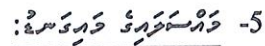
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سَمْعِي وَبَصَرِي

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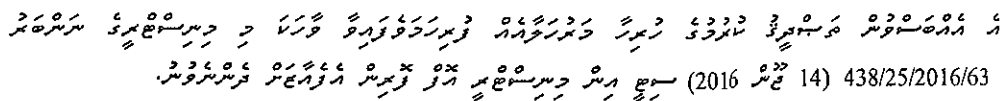
وہر سوچے کہ اگر اس سے پہلے اس سے پہلے اس سے پہلے

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3. 1. 2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2756-2757-2758-2759-2760-2761-2762-2763-2764-2765-2766-2767-2768-2769-2770-2771-2772-2773-2774-2775-2776-2777-2778-2779-2780-2781-2782-2783-2784-2785-2786-2787-2788-2789-2790-2791-2792-2793-2794-2795-2796-2797-2798-2799-2800-2801-2802-2803-2804-2805-2806-2807-2808-2809-2810-2811-2812-2813-2814-2815-2816-2817-2818-2819-2820-2821-2822-2823-2824-2825-2826-2827-2828-2829-2830-283

4. **අධිකරණයේ පිටත පිටුවේ දැක්වෙන අයදුම්පත් පිළිබඳව** (08 ඔක්තෝබර් 2016) 25-S/438/2016/73
අයදුම්පත් සම්බන්ධව පිටත පිටුවේ දැක්වෙන අයදුම්පත් පිළිබඳව (1) 1 වන පිටුවේ පිටත පිටුවේ
 පිටත පිටුවේ දැක්වෙන අයදුම්පත් පිළිබඳව (1) 1 වන පිටුවේ පිටත පිටුවේ
 පිටත පිටුවේ දැක්වෙන අයදුම්පත් පිළිබඳව (1) 1 වන පිටුවේ පිටත පිටුවේ

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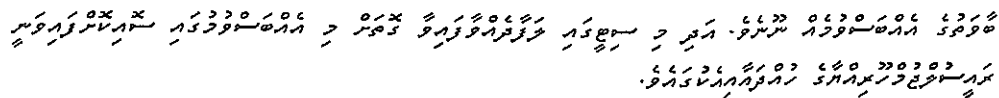
7- اَللّٰهُمَّ صَلِّ وَسَلِّمْ عَلٰى سَيِّدِنَا مُحَمَّدٍ وَعَلٰى اٰلِهِٖ وَسَلَّم

۱. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$

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ה'תרס"ט כ"ט אלול

۱. انوار السعدۃ فی خبر سید الشہداء علیہ السلام
 ۲. سیرت النبی صلی اللہ علیہ وسلم
 ۳. سیرت النبی صلی اللہ علیہ وسلم
 ۴. سیرت النبی صلی اللہ علیہ وسلم
 ۵. سیرت النبی صلی اللہ علیہ وسلم
 ۶. سیرت النبی صلی اللہ علیہ وسلم
 ۷. سیرت النبی صلی اللہ علیہ وسلم
 ۸. سیرت النبی صلی اللہ علیہ وسلم
 ۹. سیرت النبی صلی اللہ علیہ وسلم
 ۱۰. سیرت النبی صلی اللہ علیہ وسلم

(2014)

● جيسٽيشنل ۾ آڻو ورتائيندڙ سرڪاري 25-S/438/2014/149 (23 جنوري 2014) تي سڃاتو

● جيسٽيشنل ۾ آڻو ورتائيندڙ سرڪاري 438-ETDS/32/2014/41 (30 جنوري 2014)

- اُلٹے سہیل نے سہیل کوئی آپوزیٹ سرٹیفکٹ 32-C1/438/2014/28 (04 ستمبر 2014) سے
- کمرہ سماعت میں پیش کیا آپوزیٹ سرٹیفکٹ 1-FR/25/2014/511 (23 ستمبر 2014) سے
- جس سے پتہ چلتا ہے کہ قریب 100 گز کی سرٹیفکٹ 25-S/438/2016/73 (08 جنوری 2016) سے
- جس سے پتہ چلتا ہے کہ 100 گز کی سرٹیفکٹ 438/25/2016/63 (14 جنوری 2016) سے
- اُلٹے سہیل نے سہیل کوئی آپوزیٹ سرٹیفکٹ 32-LAD/25/2018/72 (03 اگست 2018) سے
- جس سے پتہ چلتا ہے کہ قریب 100 گز کی سرٹیفکٹ 25-S/438/2018/141 (10 اگست 2018) سے
- کمرہ سماعت میں پیش کیا آپوزیٹ سرٹیفکٹ 1-CBO(CS)/438/2019/16 (30 ستمبر 2019) سے

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Ministry of Environment

Male', Republic of Maldives.

ދިވެހިސަރުކާރުގެ ގެޒެޓް
ދާއިރާ: ބިޔަފުހަރު

އިދާރާތީ ފަންނުތަކާއި - ހިޖުމަތު ސަލާޚު

438-ED/1/2019/28 ސަފުހާ:

އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު،

ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހު.

އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު 1-CBO(CS)/438/2019/16 (30 ޖުލައި 2019) ސަފުހާ:

އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު.

އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު (އިދާރާތީ ސަލާޚު)
އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު
އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު.

އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހު.

13 ޖުލައި 2019 1440.

18 ޖުލައި 2019.

ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު

އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު

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އިދާރާތީ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު،

ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހު.

1 ސަފުހާ ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު



Green Building, Handhuvaaree Hingun,
Maafannu, Male', 20392, Republic of Maldives.

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ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހުގެ ތާރީޚު،

ފަންނުތަކާއި ހިޖުމަތު ސަލާޚު ބަންދުވާ ދުވަހު.

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خبر

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مرکزہ نمبر: 1-CBO(CS)/438/2019/16

[illegible]

وَقَدْ نَزَّلَ الْحَدِيثَ

438-ED/1/2019/13 (21 جولائی 2019) سیدتی

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30 ربيع الثانی 1440 2018

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الحمد لله

کے لئے

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عبر و بر سر این رخ.

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بسم الله الرحمن الرحيم



ދިވެހިސަރުކާރުގެ ގެޒެޓް
ދާއިރާ: ބޭރުގެ ގުޅިގެން

ސަރުކާރުގެ ތަން: 25-S/438/2018/141

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި، ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން
ވަނީ ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި.

ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން (ދިވެހިސަރުކާރުގެ ގެޒެޓް)

ދިވެހިސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި 25-S/438/2018/86 (13 ޖުލައި 2018) ސަރުކާރުގެ ފަރާތުން
ބަޔާންކުރި ގޮތުގައި.

ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން 18 ވަނަ ޖުލައި 2018 ގައި ބަޔާންކުރި ގޮތުގައި ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި.

އެއް ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި.

މިއަދު 30 ޖުލައި 2018 ގައި ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި
ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި.

އެއް ފަރާތުން ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން ސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި.

30 ޖުލައި 2018

10 ޖުލައި 2018

ދިވެހިސަރުކާރުގެ ފަރާތުން ބަޔާންކުރި ގޮތުގައި

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި ރާއްޖޭގެ ބޭރުގެ ގުޅިގެން
ދާއިރާ: ބޭރުގެ ގުޅިގެން



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تحریر و تصدیق

[illegible]

فَوَجَّهْهُمُ إِلَىٰ مَسْجِدِ الْوَيْتِ

[illegible][illegible][illegible]



Ministry of Environment and Energy

Male', Republic of Maldives.

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި
އިތުރު ފަލަދު ދެއްވަމެވެ.

ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި - ސަރުކާރުގެ ގެޒެޓް ގައި

438/25/2016/63 : ސަރުކާރުގެ ގެޒެޓް

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި ހުށަހަޅާ ފަލަދު

ފަލަދު ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި.

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި 25-S/438/2016/73 (8 ޖުލައި 2016) ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި.

ހުށަހަޅާ ފަލަދު ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި ފަލަދު ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި (ހުށަހަޅާ ފަލަދު)
ހުށަހަޅާ ފަލަދު ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި 115 ޖުލައި 2016 ގައި ބަޔާންކުރި ގޮތުގައި 1 ޖުލައި 2016 ގައި ބަޔާންކުރި ގޮތުގައި
ހުށަހަޅާ ފަލަދު ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި ހުށަހަޅާ ފަލަދު ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި ހުށަހަޅާ ފަލަދު ސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި
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09 ޖުލައި 2016

14 ޖުލައި 2016

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1 ޖުލައި 2016



Green Building, Handhuvaaree Hingun,
Maafannu, Male', 20392, Republic of Maldives.

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بسم الله الرحمن الرحيم



مذكرة خروج من الخدمة

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في يوم الاثنين الموافق ٢٠١٩ م
سنة ١٤٢٠ هـ الموافق ٢٠١٩ م

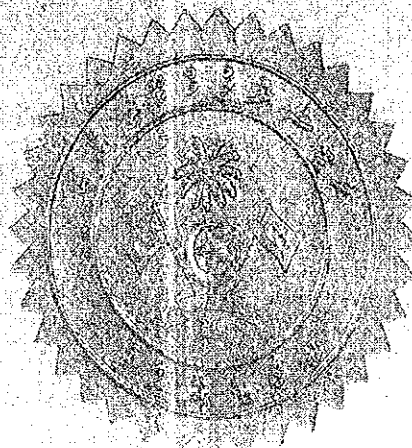
في يوم الاثنين الموافق ٢٠١٩ م
115 (م) في ١٠

في يوم الاثنين الموافق ٢٠١٩ م
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مذكرة خروج من الخدمة

بسم الله الرحمن الرحيم



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



गुजरात सरकार

द्वारा

प्रमाणित

32-C1/438/2014/28

गुजरात सरकार द्वारा निर्धारित 15/08/2014

द्वारा प्रमाणित

गुजरात सरकार द्वारा निर्धारित 15/08/2014

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गुजरात सरकार द्वारा निर्धारित 15/08/2014

गुजरात सरकार

SAARC FRAMEWORK AGREEMENT
FOR ENERGY COOPERATION (ELECTRICITY)

The SAARC (South Asian Association for Regional Cooperation) Member States, comprising Afghanistan, Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan and Sri Lanka;

Recognizing the importance of electricity in promoting economic growth and improving the quality of life;

Realizing the common benefits of cross border electricity exchanges and trade among the SAARC Member States leading to optimal utilization of regional electricity generating resources, enhanced grid security, and electricity trade arising from diversity in peak demand and seasonal variations;

Convinced of the need of increasing economic cooperation and creating new opportunities in the electricity sector;

Recalling the decision of the Sixteenth SAARC Summit held in Thimphu (2010), to enhance cooperation in the energy sector to facilitate energy trade, development of efficient conventional and renewable energy sources including hydropower;

Emphasizing the need to promote regional power trade, energy efficiency, energy conservation and development of labeling and standardization of appliances, and sharing of knowledge;

Recalling further the decision of the Seventeenth SAARC Summit held in Addu City-Maldives (2011), which directed the conclusion of an Inter-governmental Framework Agreement for Energy Cooperation;

Now, therefore, in the spirit of solidarity and mutual cooperation, and subject to the laws, regulations and international obligations of the Member States, wherever applicable, have agreed as follows:

Article 1
Definitions
Buying and Selling Entities

Buying and Selling Entities means any authorized public or private power producer, power utility, trading company, transmission utility, distribution company, or any other institution established and registered under the laws of any one of the Member States having permission of buying and selling of electricity within and outside the country in which it is registered.

Article 2
Objective

Member States shall enable cross-border trade of electricity on voluntary basis subject to the laws, rules and regulations of the respective Member States.

Article 3
Scope

Member States shall enable Buying and Selling Entities to negotiate the terms, conditions, payment security mechanism and tenure of electricity trade.

Article 4
Duties & Taxes

Member States shall work towards exempting from export/import duty/levies/fees, etc. for cross-border trade and exchange of electricity between Buying and Selling Entities;

Article 5
Data Updating and Sharing

Member States shall share and update technical data and information on the electricity sector in an agreed template.

Article 6
Promoting Competition

Member States shall encourage the process of opening up of electricity sector guided by respective national priorities with the aim of promoting competition.

Article 7
Planning of Cross-Border Interconnections

Member States shall enable the transmission planning agencies of the Governments to plan the cross-border grid interconnections based on the needs of the trade in the foreseeable future through studies and sharing technical information required for the same.

Article 8
Build, Operate and Maintain

Member States shall enable the respective transmission agencies to build, own, operate and maintain the associated transmission system of cross-border interconnection falling within respective national boundaries and/or interconnect at mutually agreed locations.

Article 9
Transmission Service Agreements

Member States shall enable authorized Buying and Selling Entities to enter into transmission service agreements with the transmission service providers for the purpose of cross-border electricity trade.

Article 10
Electricity Grid Protection System

Member States shall enable joint development of coordinated network protection systems incidental to the cross-border interconnection to ensure reliability and security of the grids of the Member States.

Article 11
System Operation and Settlement Mechanism

Member States shall enable the national grid operators to jointly develop coordinated procedures for the secure and reliable operation of the interconnected grids and to prepare scheduling, dispatch, energy accounting and settlement procedures for cross border trade.

Article 12
Transmission Access

Member States shall, for the purpose of electricity trade, enable non-discriminatory access to the respective transmission grids as per the applicable laws, rules, regulations and applicable inter-governmental bilateral trade agreements.

Article 13
Facilitating Buying and Selling Entities

Member States shall enable Buying and Selling Entities to engage in cross-border electricity trading.

Article 14
Knowledge Sharing and Joint Research in Electricity Sector

Member States shall enable and encourage knowledge sharing and joint research including exchange of experts and professionals related to, *inter alia*, power generation, transmission, distribution, energy efficiency, reduction of transmission and distribution losses, and development and grid integration of renewable energy resources.

Article 15
Regulatory Mechanisms

Member States shall develop the structure, functions and institutional mechanisms to resolve regulatory issues related to electricity exchange and trade.

Article 16
Dispute Settlement

Any dispute arising out of interpretation and /or implementation of this Agreement shall be resolved amicably among the Member States. If unresolved, the Member States may choose to refer the dispute to SAARC Arbitration Council.

Article 17
Withdrawal

Any Member State may withdraw from this Agreement at any time after its entry into force. Such withdrawal shall be effective six months from the day on which written notice thereof is received from the SAARC Secretariat, the depository of this Agreement.

The rights and obligations of a Member State which has withdrawn from this Agreement shall cease to apply as of that effective date with the exception that ongoing proceedings at the time of termination shall nonetheless be completed in accordance with the provisions of this Agreement.

Article 18
Entry into Force

This Agreement shall enter into force on completion of formalities by all Member States and upon issuance of a notification thereof by the Secretary General of SAARC.

Article 19
Amendment

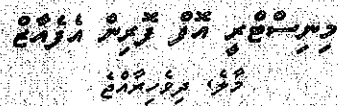
Any amendment to this Agreement may be submitted by a Member State to the SAARC Secretariat and recommended by consensus to the Meeting of SAARC Energy Ministers. Such amendment(s) will be effective upon deposit of the instruments of acceptance with the Secretary General of SAARC.

Article 20
Review

The Member States shall meet in order to review this Agreement on request or at the end of five years from the date of its entry into force, unless they notify one another in writing that no such review is necessary.

IN WITNESS WHEREOF, the undersigned being duly authorized thereto by their respective Member States have signed this Agreement on SAARC Framework Agreement for Energy Cooperation (Electricity).

Done in ----, ---- On ----- in Ten Originals in the English Language.



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د. جبرائیل یوسف برزوقی، مرقوم رقم 25-8/438/2014/127 (7 ستمبر ۲۰۱۴ء) د. سیّد رشید روضوی

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**SOUTH ASIAN ASSOCIATION
FOR REGIONAL COOPERATION
SECRETARIAT**

Fax Message No. 2194/7/186
No. SAARC/ETS/Energy/5Min/13

The Secretariat of the South Asian Association for Regional Cooperation presents its compliments to the Ministries of Foreign/External Affairs of the Member States of SAARC and has the honour to refer to **"Fifth Meeting of SAARC Energy Ministers and its preceding Senior Officials Meeting"**, held on 16-17 October 2014 in New Delhi.

The Secretariat has further honour to circulate Reports of the above Meetings. The same have also been uploaded on the secure web-page of the Secretariat (<http://docs.saarc-sec.org>).

The Secretariat has further honour to draw attention of the esteemed Member States towards Para-10 of the Report of the Fifth Energy Ministerial Meeting (17 October 2014, New Delhi). The same is reproduced below for ready reference.

"10. The Meeting agreed to request all Member States to convey their approval of the finalized Draft of the 'SAARC Framework Agreement on Energy Cooperation (Electricity)' well before the Eighteenth SAARC Summit, so that the Agreement could be signed during the forthcoming SAARC Summit, scheduled to be held in Nepal (November 2014)."

In view of the above, Member States are requested to convey their respective approvals, at an early date, enabling the Secretariat to put the Agreement before the forthcoming Summit for signature.

The Secretariat of the South Asian Association for Regional Cooperation avails itself of this opportunity to renew to the Ministries of Foreign/External Affairs of the Member States of SAARC, the assurances of its highest consideration.

Encl: a/a.



The Ministries of Foreign/External Affairs of the
Member States of SAARC

Attn: Joint Secretary/Director General/Director/Head (SAARC Division)



FIFTH MEETING OF THE SAARC ENERGY MINISTERS

New Delhi, 17 October 2014

SAARC/EMM-05/5

THE REPORT

INTRODUCTION

At the invitation of the Government of the Republic of India, the Fifth Meeting of the SAARC Energy Ministers was held in New Delhi on 17 October 2014. The list of participants is at Annex-I.

I. Opening of the Meeting

2. The Meeting was called to order by the Secretary General of SAARC, His Excellency Mr. Arjun Bahadur Thapa.

3. In his opening Remarks, he thanked the Government of India for convening the Fifth Meeting of the SAARC Energy Ministers. He also thanked the host for warm welcome, extending gracious hospitality to all delegates and making excellent arrangements for the Meeting. The Secretary General thanked all the delegates for ensuring their presence to deliberate on issues in this vital and demand driven area of cooperation. He expressed the hope that the Honourable Ministers will duly consider the recommendations of the Meeting of the Senior Officials. He briefed the Meeting of the completed and ongoing activities, and wished the meeting success in its deliberation.

II. Election of Chairperson

4. As per SAARC practice, the Leader of the Delegation of the host country His Excellency Mr. Piyush Goyal, Minister of State (IC) for Coal, Power and New & Renewable energy, of the Government of India, was elected as Chairperson of the Meeting by acclamation. The Chairperson, extended warm welcome to Energy Ministers and other delegates and expressed hope that with their cooperation, the meeting will have successful deliberations.

III. Adoption of the Agenda

5. The Meeting had before it the Provisional Agenda and the Provisional Annotated Agenda, circulated as Documents No. SAARC/EMM-05/1 and SAARC/EMM-05/2, respectively. The agenda as adopted by the meeting is at Annex-II.

IV. Statements by SAARC Energy Ministers/Heads of Delegations.

6. The Honourable Ministers/Leaders of the delegations in their statements briefed the Meeting on various energy initiatives taken by their respective countries. They emphasized on the need to enhance regional energy cooperation to overcome the challenges related to energy security in the region. The Ministers/Leaders of delegations also highlighted the scope for promoting energy trade within and outside the region. They underlined the need to enhance cooperation, especially in sharing best practices through workshops, seminars and training programmes.

7. The Ministers/leaders of the delegations expressed their satisfaction over a number of initiatives undertaken by SAARC, to promote energy cooperation in the region. They reiterated their continued support to the proposed measures by various energy mechanisms aimed to realize the objectives of enhanced cooperation. Texts of the statements are at **Annex-III**.

V. Consideration of the Report of the Senior Officials Meeting (New Delhi, 16 October 2011)

8. Shri Devendra Chaudhry, Additional Secretary, Ministry of Power, Government of India, on behalf of the Secretary, Ministry of Power, Government of India, presented the Report of the Meeting of Senior Officials held on 16 October 2014, circulated as Document No. SAARC/EMM-05/4.

9. The Meeting placed on record its appreciation to the Senior Officials for deliberating on all the Agenda items at length and making its recommendations to the Energy Ministers. The Meeting considered and approved the Report of the Meeting of Senior Officials, which is at **Annex-IV**.

10. The Meeting agreed to request all Member States to convey their approval of the finalized Draft of the 'SAARC Framework Agreement on Energy Cooperation (Electricity)' well before the Eighteenth SAARC Summit, so that the Agreement could be signed during the forthcoming SAARC Summit, scheduled to be held in Nepal (November 2014).

VI. Consideration of the Venue of the Sixth Meeting of the SAARC Energy Ministers

11. The Meeting welcomed the offer of Nepal to host the Sixth Meeting of SAARC Energy Ministers and the preceding Senior Officials meeting. Dates and venue will be notified through the SAARC Secretariat at a later stage.

VII. Any other Matter(s)

12. No matter was discussed under this Agenda item.

- d) First meeting of the Expert Group on Technology and Knowledge Sharing (New Delhi, 29-30 May 2012). The Report is circulated as document No. **SAARC/SO-EMM-05/7.**
- e) Second Meeting of the Expert Group on Renewable Energy (Islamabad, 11-12 June 2014). The Report is circulated as document No. **SAARC/SO-EMM-05/8.**
- f) Inter-governmental Meeting to discuss the Interim Report on "Study on South Asian Regional Power Exchange", organized by ADB (Bangkok, 29-30 March 2012). The Report is circulated as document No. **SAARC/SO-EMM-05/9.**
- g) Inter-Governmental Meeting to finalize the Interim Report on "Study on South Asian Regional Power Exchange", organized by ADB, (Manila, 1-2 November 2012). The Report is circulated as document No. **SAARC/SO-EMM-05/10.**

10. The Meeting considered the above Reports and recommended for their approval by the Energy Ministers' Meeting.

VI. Consideration of matters regarding Road Map for developing SAARC Market for Electricity (SAME)

- a. **Finalization of Draft SAARC Inter-Governmental Framework Agreement for Energy Cooperation.**
- b. **Preparation of Concept papers**
- i. **Finalization of Draft SAARC Inter-Governmental Framework Agreement for Energy Cooperation.**

11. The Meeting noted that the Draft Inter-Governmental Framework Agreement for Energy Cooperation (Electricity) has been discussed at many Energy related forums, as follows:

- a) Second Electricity Expert Group Meeting, (Udaipur, 19th January 2011).
- b) Sixth Meeting of the Working Group (Islamabad, 25-26 August 2011).
- c) Seventh Energy Working Group Meeting (Marawila – Sri Lanka, 15-16 March 2013).
- d) Third Electricity Expert Group Meeting (New Delhi, 19 December 2014).
- e) Eighth Energy Working Group Meeting (Colombo 25-26 August 2014).

ANNEX-I

**Fifth Energy Ministerial Meeting
(New Delhi, 17 October 2014)**

LIST OF PARTICIPANTS

AFGHANISTAN

- i) **H.E. MOHAMMAD ARIF NOORZAI**
Minister of Energy and Water
- ii) **H.E. MR. SHaida MOHAMMAD ABDALI**
Ambassador of Afghanistan to India
- iii) **MR. ENGINEER MOHAMMAD HUMAYUN KOHESTANI**
Director of Energy Programs
- iv) **MR. ENGINEER FARHAD NOORZAI**
Director of Water Programs
- v) **MR. ENGINEER HABIB RAHMAN RAHMAT**
Advisor to Ministry of energy and Water

BANGLADESH

- i) **H.E. MR. NASRUL HAMID, MP**
Hon'ble State Minister,
Ministry of Power, Energy & Mineral Resources
- ii) **H.E. MR. TARIQ A. KARIM**
High Commissioner for Bangladesh to India
- iii) **MR. TAPOS KUMAR ROY,**
Additional Secretary, Power Division,
Ministry of Power, Energy & Mineral Resources
- iv) **MR. MD. ANWAR HOSSAIN,**
Joint Secretary, Power Division,
Ministry of Power, Energy & Mineral Resources
- v) **MR. SELIM ABED,**
PS to Hon'ble Minister, Deputy Secretary,
Ministry of Power, Energy & Mineral Resources
- vi) **MR. ZANENDRA NATH SARKER,**
Deputy Secretary,
Energy & Ministerial Resources Division,
Ministry of Power, Energy & Mineral Resources

- vii) **MR. MD. MIZANUR RAHMAN**,
Chief Engineer (In-Charge),
Bangladesh Power Development Board (BPBD)
- viii) **MR. CHOWDHURY ALAMGIR HOSSAIN**,
Director (P&D),
Power Grid Company of Bangladesh (PGCB)
- ix) **MR. RAHAT BIN ZAMAN**,
Director (SAARC & BIMSTEC),
Ministry of Foreign Affairs
- x) **MR. SK. MD. SHAHRIAR MOSHARRAF**
First Secretary
Bangladesh High Commission, New Delhi

BHUTAN

- i) **DASHO SONAM TSHERING**
Secretary,
Ministry of Economic Affairs
- ii) **DASHO YESHI WANGDI**
Director General, DHPS,
Ministry of Economic Affairs
- iii) **MR. NGAWANG CHOEDA**
Executive Engineer, DHPS,
Ministry of Economic Affairs
- iv) **MR. KARMA JURMIN THINLEY**
Counsellor
Royal Bhutanese Embassy, New Delhi
- v) **MS. RINCHEN LHAZOM**
Counsellor (Economic)
Royal Bhutanese Embassy, New Delhi

INDIA

- i) **H.E.MR. PIYUSH GUYAL**
Hon'ble Minister of State (IC) for Coal, Power and New
& Renewable energy,
- ii) **SHRI PRADEEP KUMAR SINHA**
Secretary
Ministry of Power
- iii) **DR. A.M. GONDANE**
Joint Secretary (SAARC)
Ministry of External Affairs

- iv) **SHRI DEVENDRA CHAUDHRY**
Additional Secretary
Ministry of Power
- v) **SMT. JYOTI ARORA**
Joint Secretary (Transmission)
Ministry of Power
- vi) **SHRI U.P. SINGH**
Joint Secretary
Ministry of Petroleum & Natural Gas
- vii) **SHRI TARUN KAPOOR**
Joint Secretary
Ministry of New & Renewable Energy
- viii) **SMT. NEERAJ MAHUR**
Chairperson
CEA
- ix) **DR. AJAY MATHUR**
Director General
Bureau of Energy Efficiency
- x) **SHRI R.N. NAYAK**
CMD, PGCIL
- xi) **SHRI S.K. SOONEE**
CEO
POSOCO

MALDIVES

- i) **MR. THORIQ IBRAHIM**
Minister of Environment and Energy
Ministry of Environment and Energy
- ii) **MR. AHMED ALI**
Director General
Ministry of Environment and Energy

NEPAL

- i) **HON. MS. RADHA KUMARI GYANWALI**
Minister for Energy
- ii) **MR. KESHAV DHWOJ ADHIKARI**
Joint Secretary, Ministry of Energy
- iii) **MR. YAGYA BAHADUR HAMAL,**
Joint Secretary, Regional Organization Division
(SAARC, MIMSTEC, etc), Ministry of Foreign Affairs

- iv) **MR. TIRTHA RAJ WAGLE**
Minister Counsellor
Embassy of Nepal, New Delhi
- v) **MR. RAJU MAHARJAN**
Senior Divisional Engineer, Ministry of Energy
- vi) **MS. BHAWANI WAGLE**
Supervisor, Ministry of Energy

PAKISTAN

SRI LANKA

- i) **H.E. PROF. SUDARSHAN SENEVIRATNE**
High Commissioner of Sri Lanka
New Delhi
- ii) **MR. M.I.M. FAFEEK**
Additional Secretary (Admin. & Proc)
Ministry of Power & Energy
- ii) **MR. M.G.A. GOONETILLEKE**
Director (Technical)
Ministry of Power and Energy
- iii) **MS. MANORIE MALLIKARATENY**
Minister Counsellor
High Commission of Sri Lanka
New Delhi

**SAARC
SECRETARIAT**

- i) **H.E. MR. ARJUN BAHADUR THAPA**
Secretary General,
- ii) **MR. AHMAR ISMAIL**
Director
- iii) **MR. SHABBIR AHMED**
SPA

**SAARC ENERGY
CENTER**

- i) **MR. MD. ANWARUL ISLAM**
Research Fellow (Technology Transfer)

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ANNEX-II

AGENDA

- I.** Opening of the Meeting
- II.** Election of the Chairperson
- III.** Adoption of the Agenda
- IV.** Statements by SAARC Energy Ministers/Heads of Delegations
- V.** Consideration of the Report of the Senior Officials Meeting (New Delhi, 16 October 2014)
- VI.** Consideration of the Venue of the Sixth Meeting of the SAARC Energy Ministers
- VII.** Any other Matter(s)
- VIII.** Adoption of the Report
- IX.** Closing of the Meeting

Statement of Excellency Engineer Muhammad Arif (Noorzai)
Minister of Energy & water (MEW) Islamic republic of Afghanistan
in 5th Session of the (SAARC) energy Ministers
Delhi , October 17, 2014

Excellencies Ministers of Energy from SAARC member countries, Members of the SAARC Secretariat,

Ladies and Gentlemen

Asalam-o-Alaikom wa rahmatulah,

I'm delighted of attending the 5th session of the (SAARC) energy Ministers ,which is arranged in the beautiful city of Delhi, on behalf of the Government of the Islamic Republic of Afghanistan. I hope that the SAARC member states could work together in full harmony, understanding and coordination for the growth and stability of the region economy and development.

Respected audience!

I studied the report of the 8th meeting of the working group which was conducted in Colombo from 25-26 August 2014, pursuant to this report , we believe signing of MOUs for domination of the Energy sector activities ,with the authentic /trustworthy organizations of the world, SAARC will find access to mutual cooperation and assistances.

Respected Ladies and Gentlemen:

As you know, Afghanistan has a large potential of energy which will play a vital and effective role in the very future, with the assistances/ cooperation of the Asian development Bank (ADB)the World Bank(WB),(USAID) , major industrialized nations and the private sector of all friendly countries with the cooperation of SAARC and the Energy Charter, and will develop in the near future in energy sector , In that case, Afghanistan will appear as exporter country as well.

The Geopolitical location of our country is carrying the importance , which can facilitate conditions as a transit country to South Asia, Central Asia and other parts of Asia and as a trading corridor for the region, therefore we want your attention to this superiority and supremacy.

For example, projects such as (CASA-1000) that connects Central Asia's countries, Tajikistan and Kirghizstan, to transfer the surplus electric power through Afghanistan to Pakistan, paves way for mutual cooperation among the involved nations and ends to stability and economical growth of the whole region. likewise project (TAPI) is one of the largest gas-carrying project, between Turkmenistan , Afghanistan , Pakistan and India facilitating the energy transfer. in the near future (TUTAP) development project which aims to transfer energy from Turkmenistan, Uzbekistan & Tajikistan through Afghanistan to Pakistan , which provides the best transit corridor to the South Asia countries, will be studied.

Dear audiences,

Based on our Power Master Plan(PMP) the need for power in the country is about 5000MW,in addition we would export our surplus power to South Asia , to those countries that are in the dire deficit of electricity,

As you know , Afghanistan due to it's specific location, has large amount of 23000MW hydro power potential, more over having 300 sunny days in a year, it has potential of 222000MW of solar energy,67000MW of wind energy potential , we are in the capacity of producing 1000MW of power from our gas resources, in case we provide enough budget , we could generate 2500MW power from coal plants , up to date a potential of 3500MW power generation have been estimated from our Geothermal resources.

We are working on a project which will generate 4000MW power in the near future .

As we have large Hydro-technical Potential ,therefore the friendly countries & the SAARC member states ,are invited to invest in the energy sector of the country, we guarantee your rights by all means based on the international laws and regulations, those who invest much will get more interest , we offer first priority to SAARC member states , friendly countries & their private sectors.

Respectful Ladies and Gentlemen:

Finally, I heartily thank for warm hospitality of the Indian Government, the SAARC Secretariat and those who arranged this event ,as time is limited, hence I don't want to involve you further in technical issues' Assure once again that the decisions taken by the SAARC Secretariat, so far , will be materialized through joint endeavors of all,

For the success of all

Eng. Mohammad Arif (Norzai)

Minister of Energy and Water (MEW)

Islamic Republic of Afghanistan.



Address by

**Dasho Sonam Tshering,
Secretary of Economic Affairs,
Royal Government of Bhutan.**

at the

Fifth Meeting of the SAARC Energy Ministers

17th October, 2014

New Delhi

FIFTH MEETING OF THE SAARC ENERGY MINISTERS,

17th October, 2014.

**STATEMENT BY DASHO SONAM TSHERING, SECRETARY OF ECONOMIC AFFAIRS,
ROYAL GOVERNMENT OF BHUTAN.**

Your Excellency, Shri Piyush Goyal, Hon'ble Chairperson of the 5th Meeting of the SAARC Energy Ministers and Hon'ble Minister for Coal, Power and New & Renewable Energy of the Government of India

Hon'ble Ministers of Energy of South Asian Countries and leaders of delegations

Excellency, Mr. Arjun Bahadur Thapa, Secretary General of the SAARC Secretariat

Distinguished Delegates Ladies and Gentlemen,

It is a great pleasure for me to be here in New Delhi at the 5th SAARC Energy Ministers Meeting representing my Minister who could not attend as he is currently out of the country.

On behalf of my delegation and on my own behalf, I thank the people and the Government of the Republic of India for the excellent arrangements made for the meeting and the warm reception and hospitality accorded to me and my delegation.

Excellencies,

As you all are aware, Bhutan is blessed with abundance of hydropower potential and the Hydropower sector is the backbone of our economy and accounts for about 20% of our GDP. Hydropower development for Bhutan is seen as building the foundation for a green economy and helping to fulfill the national aspiration of self reliance by 2020.

Bhutan's is fully committed to enter into regional energy cooperation for fostering energy trade within the South Asian region. Bhutan's cooperation with India in development and trade of electricity is more than 30 years old. We are encouraged by recent developments as we slowly and surely head towards making regional energy trade a reality. India and Bangladesh have already established grid connectivity and India and Nepal are in the final process of doing the same. The cooperation between Bhutan and India to develop 10,000 MW of hydropower for mutual benefit is something that other countries in the region should emulate. The natural consequence of all these bilateral arrangements should lead to regional energy pools. I do hope that power exchange amongst our member states will now become a reality.

Excellencies,

Moving towards the energy context of the whole Asian region, the Asian Energy Outlook report released by the Asian Development Bank last October forecasts sharp growth in Asia's energy consumption, in line with an expected increase in its share of world GDP from 28.3 percent in 2011 to over 44 percent in 2035, based on an annual average growth of 6 percent for the Asian region. This increase in energy production is expected to be mostly based on fossil fuels. As a result, Asia's carbon-dioxide emissions will increase to over 50 percent of global emissions by 2035 even though

per-capita annual consumption at 1.82 tons of oil equivalent will be lower than world average of 2.17 tons.

This is a concern to Asia and we in particular, the South Asian countries should try to address the high carbon development of Asia's energy sector by making our economic growth less dependent on fossil fuel energy consumption and vigorously and actively pursue cleaner and efficient technologies. We must, in our efforts to meet the increasing demand for energy, ensure that it is not at the expense of our natural and pristine environment. Extensive use of fossil fuel has created almost irreversible impact on our environment and we need to be very cautious on this aspect. Global warming and climate change are major concerns and even in a small country like Bhutan where in spite of successful protection of the environment, signs of climate change are becoming more and more visible. Hence, in our collective efforts of providing sufficient, reliable and affordable energy services to our citizens, we must ensure that it is sustainable and not at the cost of future generations.

On the part of Bhutan, we embarked on the construction of the 126 MW Dagachhu Hydroelectric Project as the first cross border Clean Development Project with clean energy generation in Bhutan and Carbon offset in India. This project is expected to be commissioned within the next couple of months. We have also managed to successfully register the 1200 MW Punatsangchhu- I project as a CDM project under the United Nations Framework Convention on Climate Change (UNFCCC). These are additional benefits that can be derived from hydropower and we have proven how carbon mitigation can be offset through bilateral cooperation. It is our hope that in order to address the many dimensions of energy consumption, we collectively channel our efforts to develop our vast potential of renewable and clean energy.

Excellencies,

We are happy to note that the SAARC Regional Power Exchange study has been completed and we look forward to the recommendations of the study towards initiating Energy trade within the SAARC region.

My delegation appreciates the works undertaken by the Energy working group and Expert groups over the last three years, to take forward the decisions of the SAARC Summits and the Energy Ministers Meetings on energy cooperation. The declaration of the 17th SAARC Summit held on 10-11 November, 2011 in Maldives directed the conclusion of the SAARC Inter-Governmental Framework Agreement for Energy Cooperation. It is indeed very heartening to note that member states have now arrived at a draft that should hopefully be concluded in the forthcoming SAARC Summit in Kathmandu. We strongly believe that such an Agreement will pave the first major step towards fostering regional energy trade within the member countries. As seen from the experiences of Greater Mekong Sub-Region Power Exchange, NORDIC Power Pool and others, such Agreements have been the key enabling instrument for facilitating Energy trade beyond borders.

Excellencies,

I am happy to note that the Senior Officials at their meeting yesterday have undertaken in-depth discussions on the issues before us and have arrived at recommendations for our consideration. I thank the Chairperson and the delegates of the Senior Officials Meeting for the hard work undertaken towards making our meeting fruitful.

I also thank the Secretary General, His Excellency Mr. Arjun Bahadur Thapa and his colleagues from the Secretariat for the excellent coordination and documentation provided for the meeting.

I believe we have made major break through in this meeting and look forward to an enriched SAARC region with abundance of energy to drive our growth for collective regional prosperity.

Thank you and Tashi Delek.

**FIFTH MEETING OF THE SAARC ENERGY MINISTERS, NEW DELHI-17 OCTOBER
2014:**

**STATEMENT BY HON. RADHA KUMARI GYAWALI, HONOURABLE MINISTER OF
ENERGY, GOVERNMENT OF NEPAL.**

**Honourable Chairman,
Honorable Ministers and Leaders of Delegations,
Excellencies,
Distinguished delegates,
Ladies and Gentlemen,**

It is my honour and privilege to address this Fifth meeting of the SAARC Energy Ministers. At the outset, I would like to express, on behalf of my delegation and on my own, sincere thanks to the Government of India for hosting this event with excellent arrangements and providing us warm hospitality.

Energy is one of the important areas of cooperation under SAARC. Given the immense potentials of South Asia in energy resources and its role in ensuring the welfare and prosperity for the peoples of our region, this sector has constantly received priority in SAARC since its inception. The meetings of SAARC Energy Ministers, establishment of SAARC Working Group on Energy and operationalization of SAARC Energy Centre are important steps taken by our regional grouping for the development of energy resources of our region through collaboration and cooperation among us.

It is a fact that economic growth and sustainable development of any country depends on the energy availability at reasonable price. The countries of our South Asian region innately require putting extra efforts in achieving energy security in order to keep pace with the economic growth and development that is taking place rapidly in other parts of the world. The leaders of our region very wisely recognized this necessity in time and assigned due priority to energy sector under the framework of SAARC.

Formation of a number of groups involving various experts of the region; their constant engagements in different tasks; collaboration of regional energy related institutions with different multilateral and bilateral agencies; and generation of various reports indicate that regional cooperation in energy sector is already set in a motion. This gives us a sense of satisfaction. However, the South Asian peoples are yet to receive tangible benefits from our regional cooperation arrangement. We cannot remain satiated merely by preparatory works. In my opinion, we should begin implementing concrete and doable projects with relatively low financial resources that can yield quick returns.

Considerable amounts of time and efforts were applied to conduct SAARC Regional Energy Trade Study (SRETS) and to prepare and finalize its reports. Now that the study has been completed, its recommendations have to be taken up for implementation.

Excellencies,

Complementarities of energy resources and necessity of correcting seasonal imbalance in demand and supply of energy, electric energy in particular, demand substantial cooperation among SAARC Member States. Experience from other regions of the world show that regional cooperation and trade in energy evolve through that at bilateral level. In our region, considering the geographical position and areal magnitude of India, initiating bilateral cooperation and trade with India with scope of extending that to sub-regional and regional level is all the more relevant. In this context, I feel very happy to mention here that Nepal and India initialed a bilateral Power Trade Agreement only a month ago, and it is scheduled to be concluded within a few days time.

The Government of Nepal has recently signed a project development agreement with a private sector investor of India in order to develop a 900 Mega Watt hydroelectric project in Nepal, mainly to export power to India. These two activities, I believe, will prove to be harbingers in the development of power sector of Nepal, which, apart from directly benefitting the immediate neighbours, will benefit at least at the sub-regional level in the long run.

I am happy to note that SAARC Framework Agreement for Energy Cooperation (Electricity) has been finalized by our senior officials yesterday. I hope the Framework Agreement will play its role in cooperation and trade in electricity at regional level, as the bilateral Power Trade Agreement I mentioned a moment ago is expected to play similar role at bilateral level.

Excellencies,

Besides hydropower, we are all the more interested in other sources of energy, such as petroleum and other minerals of which Nepal has no known potential reserves and naturally, is completely dependent on import. Any efforts at regional level that enhance availability and bring down cost will be welcome. I urge all those concerned to take additional requirements of land locked countries like ours while formulating a supply network of oil and gas in course of cross-border energy trade in the region.

I am pleased to note that we are also working towards establishing a regional regulatory framework for electricity. Such an institutional mechanism should be in place in order to conduct the regional power trade in a reliable manner.

Equally pleased am I to note that India is leading a study on transmission network planning and working towards ensuring grid safety and security. In this area of cross border electricity trade also, I urge the concerned experts involved to take distant future requirements into consideration while planning regional transmission facility. A '*working from whole to parts*' approach has to be adopted. In order to avoid redundancy of our works in future, we need to ensure what we implement in immediate future should be subsets of a bigger set that will emerge in the distant future.

Renewable alternative energy is one area in which we may immediately implement some of the activities apart from the studies and exchanges of ideas.

Excellencies,

I hope this meeting will be very fruitful and come out with increased commitment from all of us to ensure energy security through regional cooperation, which is one of the important elements in integrated development of our region. I would like to commend the time and effort put in by various committees and groups while working in energy sector of SAARC.

Lastly, I would, once again, like to express my sincere thanks to the Government of India for hosting this meeting and the excellent hospitality extended to us.

Thank You!

**Statement by H.E. Mr. Nasrul Hamid, MP, Hon'ble State Minister, Ministry of Power,
Energy and Mineral Resources,
Government of the People's Republic of Bangladesh
at the Fifth SAARC Energy Ministers' Meeting
(New Delhi, India; 17 October 2014)**

Your Excellency Piyush Goyal, Chairperson of this Meeting and Minister of State with Independent Charge for Power, Coal and New & Renewable Energy, Government of India;
Hon'ble Ministers and Heads of Delegations from SAARC Member States;
Secretary General of SAARC;
Senior Officials and delegates;
Ladies and Gentlemen;

Assalamu Alaikum and Good Morning!

I am delighted to be here in the capital city of India and would like to express my deep appreciation to the host - Government of India for the warm hospitality extended to us. I would also like to cherish the historic relationship and outstanding bond that Bangladesh enjoys with India and its people since the days of our liberation war in 1971. As this is my first visit to India since the new government took office, I convey my warmest congratulations to His Excellency Prime Minister Narendra Modi and BJP-led NDA government. I thank our distinguished colleagues and friends from other SAARC member states and officials from the SAARC Secretariat present at this meeting. I sincerely hope that our deliberations today will bring result-oriented outcome for the betterment of the region.

Mr. Chairperson,

Bangladesh has always put special emphasis on regional cooperation and as a true reflection of this philosophy, has played an active and constructive role in the framework of SAARC since its inception. The government of Her Excellency Prime Minister Sheikh Hasina, after assumption of office for the second consecutive term, has put increased emphasis to enhance relationship with the neighbours in the region, including cooperation in the field of power and energy. At this point, I am happy to share that, some significant achievements have so far been made in the area of regional power trade with our neighboring countries. Under the bilateral cooperation with India, Bangladesh is currently importing 500MW of electricity. Similar cooperation is also going on in the area of renewable energy. The visit of Nepal's Energy Minister to Bangladesh recently was quite encouraging for us in terms of energy cooperation. Similar efforts are also being taken up for the cooperation with Bhutan.

Distinguished Colleagues,

The South Asian region is not blessed with the abundance of primary energy in traditional terms, as it does not produce enough oil and gas to meet its needs. Thus, we depend heavily on imports. Securing sustainable energy supplies to meet energy needs at reasonable and affordable prices has become a major energy policy imperative of our Member States.

Recognizing the importance of energy as a prime driving force for the overall socio-economic development of the people of the South Asian region, our leaders have time and again directed us to increase efforts for energy cooperation - particularly in last ten years.

Our leaders have also directed us repeatedly, as reflected in the Declarations of the 13th, 14th, 15th and 16th Summit, to develop hydropower. I would like to request my colleagues to recall that this region has a huge hydro-power potential of about 350 GigaWatt. This untapped potential can be our way-out from the critical power situation we face region-wide. If utilized in a mutually beneficial manner, development of hydropower can be used to mitigate the power crisis of this region as well as to significantly improve the livelihood of the people across the region, not to mention the substantial impact on national and regional GDP growth. I request my colleagues to put their best efforts to develop hydropower regionally and sub-regionally, along-side their national and bilateral engagements.

I strongly believe, the SAARC Framework Agreement for Energy Cooperation (Electricity) would be one concrete step towards realizing the vision of our leaders for energy trade, particularly SAARC Market for Electricity in the region mentioned in the 17th SAARC Summit Declaration. This Agreement should enable us to have a fairly accessible and non-discriminatory regional electricity market. I urge my colleagues to undertake necessary measures towards realization of the electricity market. This Agreement as well as the envisioned market, as I see it, may also contribute to desired collaborative development of hydropower in the region.

Mr. Chairperson,

With reference to the implementation of the decisions of the previous Energy Minister's Meeting, Bangladesh is going to host the meeting of the SAARC Energy Regulators in Dhaka between the period of 18 to 24 December, 2014. The official dates will be conveyed to the Member States soon. Bangladesh will also circulate a relevant concept note within the next few days, which we pledged earlier. I request all the member states to attend the meeting in December as well as to convey their comments on the concept note before the meeting.

Distinguished Colleagues;

Last but not the least, while we consider different reports, including from SAARC Energy Centre, Working Group on Energy and various Expert Groups, we need to suggest them to focus more on realistic, time-bound and result-oriented outcomes and programmes, keeping in mind the legitimate expectations of the people of South Asia.

With that I conclude.

Thank you all for your patient hearing.

Joy Bangla, Joy Bangabondhu.



South Asian Association for Regional Cooperation
**MEETING OF SENIOR OFFICIALS
PRECEDING THE FIFTH MEETING OF THE
SAARC ENERGY MINISTERS**

New Delhi, 16 October 2014

SAARC/SO-EMM-05/14

THE REPORT

Background

At the invitation of the Government of the Republic of India, the Senior Officials Meeting, preparatory to the Fifth Meeting of the SAARC Energy Ministers, was held in New Delhi on 16 October 2014. The list of participants is at **Annex-I**.

I. Opening of the Meeting

2. As per SAARC practice, the Meeting was opened by H.E. Mr. Arjun Bahadur Thapa, Secretary General of SAARC. In his opening Remarks he thanked the Government of India for convening the Meeting of Senior Officials, preparatory to the Fifth Meeting of the SAARC Energy Ministers. He also thanked the host for extending a warm welcome and gracious hospitality to all delegates and making excellent arrangements for the Meeting. The Secretary General also thanked all the delegates for ensuring their presence to deliberate on issues in this vital and demand driven area of cooperation. He expressed the hope that the Meeting of the Senior Officials will finalize the Inter-Governmental Framework Agreement for Energy Cooperation, referred to it by the Eighth Meeting of the Working Group on Energy for consideration by the Fifth Meeting of SAARC Energy Ministers. He also brought it to the notice of the Senior Officials that the Agreement has been deliberated in depth by the relevant SAARC mechanisms. He also briefed the Senior Officials of the completed and ongoing activities. He wished the meeting a success in its deliberations.

II. Adoption of the Agenda

3. The Meeting had before it the Provisional Agenda and the Annotated Provisional Agenda, circulated as Documents No. SAARC/SO-EMM-05/1 and SAARC/SO-EMM-05/2, respectively.

4. The Agenda, as adopted by the meeting, is at **Annex-II**.

III. Election of Chairperson

5. As per SAARC practice, the Leader of the Delegation of the host country Mr. Pradeep Kumar Sinha, Secretary, Ministry of Power, Government of India, was elected as Chairperson of the Meeting. On behalf of the Chairman, Shri Devendra Chaudhry,

Additional Secretary, Ministry of Power, Government of India, extended a warm welcome to delegates and expressed the hope that with their cooperation, the Meeting will have successful deliberations.

IV. Review of status of implementation of decisions of the Fourth Meeting of SAARC Energy Ministers (Dhaka, 15 September 2011), preceded by Senior Officials Meeting (Dhaka, 14 September 2011).

6. The Meeting considered Document No. SAARC/SO-EMM-05/3 containing Reports of the Fourth Meeting of SAARC Energy Ministers (Dhaka, 14-15 September 2011) and its preceding Senior Officials Meeting. The Meeting also reviewed a table on the status of implementation of the decisions of the above Meetings, circulated by the SAARC Secretariat.

7. The Meeting expressed its satisfaction over the progress achieved so far in furthering the agenda of Energy cooperation, in accordance with the Summit and Ministerial directives. It appreciated the role played by the relevant mechanisms in implementation of various decisions taken by the Fourth Meeting of SAARC Energy Ministers.

8. The Meeting noted that Pakistan has not conveyed its willingness, within the stipulated time, to host the Seminar on "Sharing Experiences on Energy Pricing Mechanism in the SAARC Region". Considering the importance of sharing experiences, the delegation of India informed the meeting that it will convene the seminar in India in case no other Member States is willing to host it. The delegation of India also informed the Meeting that it will host the Second Meeting of the Expert Group on Technology/Knowledge Sharing (including Energy Efficiency, coal, etc.) in 2015. Exact dates will be circulated among Member States through the SAARC Secretariat.

9. The delegation of Bangladesh informed the Meeting that it will convene the Meeting of Energy Regulators /Bodies in SAARC countries by December 2014 (any two days between 18-24 December 2014). Exact dates will be circulated among all Member States through the SAARC Secretariat.

V. Consideration of the Reports;

- a) Seventh Meeting of the Working Group on Energy (Marawila – Sri Lanka, 15-16 March 2013). The Report is circulated as document No. SAARC/SO-EMM-05/4.
- b) Eighth Meeting of the Working Group on Energy (Colombo 25-26 August 2014). The Report is is circulated as document No. SAARC/SO-EMM-05/5.
- c) Third Meeting of the Expert Group on Electricity (New Delhi, 19 December 2014). The Report is circulated as document No. SAARC/SO-EMM-05/6.

VIII. Adoption of the Report

13. The Meeting unanimously adopted its report contained in Document No. SAARC/EMM-05/5.

IX. Closing of the Meeting

14. On behalf of all the delegates, Her Excellency Hon. Ms. Radha Kumari Gyanwali proposed a Vote of Thanks. She felicitated the Chairperson for conducting the Meeting in most efficient manner and concluding it successfully. She expressed her sincere thanks to the Government of India for the generous hospitality extended to the Ministers and their delegations and making excellent arrangements for the Meeting. She also appreciated and thanked the Secretary General and the SAARC Secretariat, for facilitating the deliberations and preparing excellent documents for the meeting. She also thanked all delegates for their participation and active involvement during the deliberation.

15. The Chairperson declared the meeting closed.

* * *

12. The Meeting also noted that during the Eighth Meeting of the Working Group on Energy (Colombo 25-26 August 2014), it was agreed that Member States will offer their views/comments, if any, by 30 September 2014 to the SAARC Secretariat and subsequently, the text of the Agreement, along with the comments received from the Member States, will be placed before the next meeting of SAARC Energy Ministers (and its preceding preparatory Meeting) for finalization. The Meeting also noted that no comments have been received by any Member State, during the stipulated time.

13. The meeting deliberated at length-Article by Article-on the text of the Draft Inter-Governmental Framework Agreement for Energy Cooperation (Electricity), circulated as Document No. SAARC/SO-EMM-05/11, referred to it by the Eighth Meeting of the SAARC Working Group on Energy (Colombo, 25-26 August 2014) amended the text of the draft Agreement. The finalized text of the Agreement is at Annex-III.

14. Senior Officials agreed to change the title of the draft Agreement as "*SAARC Framework Agreement for Energy Cooperation (Electricity)*". The Meeting recommended placing the finalized Agreement for consideration and approval by the Fifth Meeting of SAARC Energy Ministers.

ii. Preparation of Concept Papers

15. The 16th SAARC Summit noted the proposal from India for preparing a Road Map for developing a SAARC Market for Electricity (SAME) on a regional basis, as SAARC is considering electricity trading, supported by enabling markets in the Member States. As a follow up the Government of India had circulated a Draft Concept Paper on 30th April 2010.

16. The Concept Paper on the Road Map for developing SAARC Market for Electricity (SAME) was circulated to Member States in May 2010. The concept paper was deliberated and revised during the second meeting of Expert Group on Electricity held in Udaipur on January 18, 2011. The Expert Group recommended an Action Plan which includes development of a draft SAARC Inter-Governmental Agreement; and preparation of three Concept Papers on;

- i) Framework for planning cross-border transmission links and associated system strengthening through joint system studies; methodology for implementation of trans-country transmission infrastructure including financing arrangements, ownership and security of assets;
- ii) Operation of stable and secure SAARC Electricity grids; coordinated scheduling and settlements procedures for long-term and short-term cross-border electricity exchange/trade.
- iii) Structures, functions and institutional mechanisms for SAARC regulatory issues on electricity exchange/trade.

17. The Meeting noted that the Government of India has prepared the first two Concept Papers, which have already been circulated among Member States. The delegation of Bangladesh informed the Meeting that it has also prepared the third Concept Paper and will be circulated among Member States, shortly.

18. Mr. Y.K. Sehgal, Chief Operating Officer, Power Grid Corporation of India delivered a brief presentation on the Concept Paper on "Framework for Planning and Methodology of Cross-Border Transmission Links and Associated System Strengthening among SAARC Countries", prepared by the Government of India. The Meeting appreciated Mr. Sehgal for his presentation. His presentation is at Annex-IV.

19. Mr. S.K. Soonee, Chief Executive Officer (CEO), Power System Operation Corporation Limited (POSOCO) delivered a brief presentation on the Concept Paper on "Stable & Secure Operation of SAARC Electricity Grids", prepared by the Government of India. The Meeting appreciated Mr. Soonee for his presentation. His presentation is at Annex-V.

20. The Meeting agreed that Member States will offer their views/comments on the Concept Papers by 31 December 2014. The Meeting also recommended convening of a Workshop/Expert Group Meeting to deliberate on the Concept Papers after 4-5 months.

VII. Review of the Progress in implementation of Work Plan of the Expert Groups on;

- i) Oil and Gas
- ii) Electricity
- iii) Renewable Energy
- iv) Technology/ Knowledge Sharing (including Energy Efficiency, Coal etc.)

21. The Third Meeting of the SAARC Energy Ministers (Colombo, 29 January 2009) had considered and approved the draft Concept Paper on Energy Ring, with the observation that it is a dynamic concept and will evolve over time with the experience of the Member States and changing ground realities. The Meeting further decided formation of following four Expert Groups for different commodities and services.

S/N	Name of Experts Group	Lead Country
1.	Oil and Gas	Bangladesh
2.	Electricity	India
3.	Renewable Energy	Pakistan
4.	Technology/knowledge sharing (including energy efficiency, coal etc.)	India

22. Delegation of Bangladesh informed the Meeting that it will hold the Second Meeting of the Expert Group on Oil and Gas in December 2014. Exact dates will be circulated among Member States through the SAARC Secretariat.

23. The Senior Officials Meeting noted that all the Expert Groups have already finalized their ToRs and Work Plans, and urged the lead Member States to continue convening of Expert Group meetings regularly, preferably on an annual basis.

VIII. Making available an appropriate percentage of national income towards the respective countries' renewable energy investments.

24. The Leaders, during Seventeenth Summit, directed the conclusion of the Inter-governmental Framework Agreement for Energy Cooperation and the Study on the Regional Power Exchange Concept as also the work related to SAARC Market for Electricity. They also urged for making available an appropriate percentage of national income towards the respective countries' renewable energy investments, subject to the approval of national arrangements.

25. Member States apprised the Meeting of the initiatives taken with regard to Renewable Energy projects. The Meeting referred the matter to the Expert group on Renewable Energy for further deliberations.

IX. Report on the activities of SAARC Energy Centre (SEC).

26. Mr. Md. Anwarul Islam, Research Fellow (Technology Transfer) SAARC Energy Centre (SEC), made a detailed presentation on the programme activities carried out by the Centre for the year 2014 and proposed activities for the year 2015. His presentation is at Annex-VI.

27. The Meeting appreciated the representative of SAARC Energy Centre for his comprehensive presentation on SEC's activities. The Meeting also proposed that SEC may apprise the Ministerial level meeting of the programme of activities proposed to be taken up.

28. The delegation of Bangladesh suggested, with reference to the pre-feasibility study for Development of a Potential Regional Hydropower Plant in South Asia undertaken by the SAARC Energy Centre for the year 2014 to include Bangladesh, along with other Member States in the Study.

X. Consideration of the Venue of the Sixth Meeting of the SAARC Energy Ministers

29. The matter may be flagged during the Ministerial Meeting.

XI. Any other matters

30. No other matter was discussed under this agenda item.

XII. Adoption of the Report

31. The Meeting adopted its Report contained in Document No. SAARC/SO-EMM-05/14 by consensus.

XIII. Closing of the Meeting

32. On behalf of all the delegates, Mr. Keshab Dhoj Adhikari, Joint Secretary, Ministry of Energy, Government of Nepal, proposed a Vote of Thanks. He thanked the Government of India and Ministry of Power for hosting the Meeting of Senior Officials, preparatory to the Fifth meeting of SAARC Energy Ministers. He expressed his appreciation to the Chairman for conducting the Meeting in most efficient manner and concluding it successfully. He thanked the Government of India for providing generous hospitality to the delegates. He also thanked the Secretary General, SAARC and his team for the assistance rendered during the deliberations.

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ANNEX-I

Meeting of the Senior Officials, preceding Fifth Energy Ministerial Meeting
(New Delhi, 16 October 2014)

LIST OF PARTICIPANTS

AFGHANISTAN

- i) **MR. ENGINEER MOHAMMAD HUMAYUN KOHESTANI**
Director of Energy Programs
- ii) **MR. ENGINEER FARHAD NOORZAI**
Director of Water Programs
- iii) **MR. ENGINEER HABIB RAHMAN RAHMAT**
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BANGLADESH

- i) **MR. TAPOS KUMAR ROY,**
Additional Secretary, Power Division,
Ministry of Power, Energy & Mineral Resources
- ii) **MR. MD. ANWAR HOSSAIN,**
Joint Secretary, Power Division,
Ministry of Power, Energy & Mineral Resources
- iii) **MR. ZANENDRA NATH SARKER,**
Deputy Secretary,
Energy & Ministerial Resources Division,
Ministry of Power, Energy & Mineral Resources
- iv) **MR. MD. MIZANUR RAHMAN,**
Chief Engineer (In-Charge),
Bangladesh Power Development Board (BPBD)
- v) **MR. CHOWDHURY ALAMGIR HOSSAIN,**
Director (P&D),
Power Grid Company of Bangladesh (PGCB)
- vi) **MR. RAHAT BIN ZAMAN,**
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- vii) **MR. SK. MD. SHAHRIAR MOSHARRAF**
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INDIA

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- ii) **DR. A.M. GONDANE**
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- iii) **SHRI DEVENDRA CHAUDHRY**
Additional Secretary
Ministry of Power
- iv) **SMT. JYOTI ARORA**
Joint Secretary (Transmission)
Ministry of Power
- v) **SHRI U.P. SINGH**
Joint Secretary
Ministry of Petroleum & Natural Gas
- vi) **SHRI TARUN KAPOOR**
Joint Secretary
Ministry of New & Renewable Energy
- vii) **SMT. NEERAJ MAHUR**

Chairperson
CEA

- viii) **DR. AJAY MATHUR**
Director General
Bureau of Energy Efficiency
- ix) **SHRI R.N. NAYAK**
CMD, PGCIL
- x) **SHRI S.K. SOONEE**
CEO
POSOCO

MALDIVES

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NEPAL

- i) **MR. KESHAV DHWOJ ADHIKARI**
Joint Secretary, Ministry of Energy
- ii) **MR. YAGYA BAHADUR HAMAL,**
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PAKISTAN

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THE AGENDA

- I. Opening of the Meeting.
- II. Election of the Chairperson.
- III. Adoption of the Agenda.
- IV. Review of status of implementation of decisions of the Fourth Meeting of SAARC Energy Ministers (Dhaka, 15 September 2011), preceded by Senior Officials Meeting (Dhaka, 14 September 2011).
- V. Consideration of the Reports of the:
 - h) Seventh Meeting of the Working Group on Energy (Marawila — Sri Lanka, 15-16 March 2013).
 - i) Eighth Meeting of the Working Group on Energy (Colombo 25-26 August 2014).
 - j) Third Meeting of the Expert Group on Electricity (New Delhi, 19 December 2014).
 - k) First meeting of the Expert Group on Technology and Knowledge Sharing (New Delhi, 29-30 May 2012).
 - l) Second Meeting of the Expert Group on Renewable Energy (Islamabad, 11-12 June 2014).
 - m) Inter-governmental Meeting to discuss Interim Report on "Study on South Asian Regional Power Exchange", organized by ADB (Bangkok, 29-30 March 2012).
 - n) Inter-Governmental Meeting to finalize the Interim Report on "Study on South Asian Regional Power Exchange", organized by ADB, (Manila, 1-2 November 2012).
- VI. Consideration of matters regarding Road Map for developing SAARC Market for Electricity (SAME)
 - a. Finalization of Draft SAARC Inter-Governmental Framework Agreement for Energy Cooperation.
 - b. Preparation of Concept papers

Article 8
Build, Operate and Maintain

Member States shall enable the respective transmission agencies to build, own, operate and maintain the associated transmission system of cross-border interconnection falling within respective national boundaries and/or interconnect at mutually agreed locations.

Article 9
Transmission Service Agreements

Member States shall enable authorized Buying and Selling Entities to enter into transmission service agreements with the transmission service providers for the purpose of cross-border electricity trade.

Article 10
Electricity Grid Protection System

Member States shall enable joint development of coordinated network protection systems incidental to the cross-border interconnection to ensure reliability and security of the grids of the Member States.

Article 11
System Operation and Settlement Mechanism

Member States shall enable the national grid operators to jointly develop coordinated procedures for the secure and reliable operation of the inter-connected grids and to prepare scheduling, dispatch, energy accounting and settlement procedures for cross border trade.

Article 12
Transmission Access

Member States shall, for the purpose of electricity trade, enable non-discriminatory access to the respective transmission grids as per the applicable laws, rules, regulations and applicable inter-governmental bilateral trade agreements.

Article 13
Facilitating Buying and Selling Entities

Member States shall enable Buying and Selling Entities to engage in cross-border electricity trading.

Article 14
Knowledge Sharing and Joint Research in Electricity Sector

Member States shall enable and encourage knowledge sharing and joint research including exchange of experts and professionals related to, *inter alia*, power generation, transmission, distribution, energy efficiency, reduction of transmission and distribution losses, and development and grid integration of renewable energy resources.

Article 15
Regulatory Mechanisms

Member States shall develop the structure, functions and institutional mechanisms to resolve regulatory issues related to electricity exchange and trade.

Article 16
Dispute Settlement

Any dispute arising out of interpretation and /or implementation of this Agreement shall be resolved amicably among the Member States. If unresolved, the Member States may choose to refer the dispute to SAARC Arbitration Council.

Article 17
Withdrawal

Any Member State may withdraw from this Agreement at any time after its entry into force. Such withdrawal shall be effective six months from the day on which written notice thereof is received from the SAARC Secretariat, the depository of this Agreement.

The rights and obligations of a Member State which has withdrawn from this Agreement shall cease to apply as of that effective date with the exception that ongoing proceedings at the time of termination shall nonetheless be completed in accordance with the provisions of this Agreement.

Article 18
Entry into Force

This Agreement shall enter into force on completion of formalities by all Member States and upon issuance of a notification thereof by the Secretary General of SAARC.

Article 19
Amendment

Any amendment to this Agreement may be submitted by a Member State to the SAARC Secretariat and recommended by consensus to the Meeting of SAARC Energy Ministers. Such amendment(s) will be effective upon deposit of the instruments of acceptance with the Secretary General of SAARC.

Article 20
Review

The Member States shall meet in order to review this Agreement on request or at the end of five years from the date of its entry into force, unless they notify one another in writing that no such review is necessary.

IN WITNESS WHEREOF, the undersigned being duly authorized thereto by their respective Member States have signed this Agreement on SAARC Framework Agreement for Energy Cooperation (Electricity).

Done in ----, ---- On ----- in Ten Originals in the English Language.

Minister of Foreign Affairs
Islamic Republic of Afghanistan

Minister for Foreign Affairs
People's Republic of Bangladesh

Minister of Foreign Affairs
Kingdom of Bhutan

Minister of External Affairs
Republic of India

Minister of Foreign Affairs
Republic of Maldives

Minister for Foreign Affairs
Nepal

Minister of Foreign Affairs
Islamic Republic of Pakistan

Minister of External Affairs
Democratic Socialist Republic of Sri Lanka

Concept paper

On

**Framework for planning and
methodology
of cross-border transmission links
and associated system strengthening
among SAARC Countries**



Introduction

- **The framework of planning of interconnection line between the electricity grid of two countries would involve the following**
- **Planning**
- **Implementation**
- **Operation and Maintenance**
- **Funding and Recovery of Investment**
- **Addressing Legal Issues**
- **Way Forward**



Planning

- **Feasibility Study for Grid Interconnection**
- ***Formation of Joint Study Team***
 - *Objective of Interconnection*
 - *Identification of Quantum of Power Exchange*
 - *Identification of Interconnection System*
 - *Design Studies and Equipment parameter finalization*
 - *Survey, Soil Investigation, Environment Impact Assessment and land identification*
 - *Preparation of Bill of Quantity and Cost estimates*
 - *Techno-Economic Analysis*
 - *Preparation of Feasibility Study Report*



Implementaion

- **Implementing Agency**
 - The implementing agency and ownership of the interconnection project need to be firmed up.
- **Coordination Groups for Implementation**
 - **Design Coordination Group**
 - prepare the Detailed Project Report and the detailed cost estimate which could be utilized for the tendering purpose.
 - **Project Monitoring Group**
 - preparation of PERT chart / timelines, tendering activities, forest and environmental clearances, acquisition of land for substation, physical progress of the project, financial progress, commissioning of the project etc.



Operation and Maintenance

- **Operation and Maintenance Coordination Group**


- for smooth operation and maintenance of the interconnecting project including maintenance of associated communication facilities, coordination of protective devices, maintenance coordination etc

- **Operational and Maintenance procedures**

- Safety Rules
- Quality of Equipments and Apparatus
- Operational Procedures
 - written instructions, coordination in operation, sequence of operations etc
 - Operation in abnormal technical condition like disaster management

Operation and Maintenance.....contd....

- **Operational and Maintenance procedurescontd.**
 - Maintenance of Transmission System and their components
 - Preventive Maintenance and Maintenance for Restoration after Breakdowns
 - Hot Line Methods, Maintenance Schedules
 - Special Methods for Monitoring Condition of Equipments
 - Failure Analysis System
 - Inventory Control and Spare Part Management
 - Maintenance Audit, Inspection and Patrolling
 - Residual Life Assessment
 - Disaster Management
 - Maintenance of Tools and Equipments
 - Automation and Special Protection Systems



Funding and Recovery of Investment

- The funding options need to be studied and finalized before implementation of the project.
- The recovery of the investment on the transmission scheme should be finalized and necessary agreement for the same may be signed before implementation of the project.
- Long term agreement may be signed between the interconnecting countries/utilities. It may be necessary to ensure the following aspects :
 - Sale/ Purchase of Power on a sustained/ long term basis
 - Security of Payment / Signing of Covenant
 - Immunity to Political Changes and changes in Law

Addressing Legal Issues

- Adequate legal arrangements need to be enforced to protect the investment, modalities of operation and realization of tariff in regard to the interconnection project.
- The legal issues involve firming up of procedures for dispute settlement and Arbitration.
- The applicability of Laws of Respective countries/ International Laws should be specified while addressing the issues of dispute settlement.
- Dispute Resolution
 - Dispute **resolution clause** need to be included in the agreement(s) between the countries for resolving disputes on any of the issues before or after date of commercial operation of the interconnection between the two countries
- Forms of Dispute Resolution
 - An expert (an engineer or a dispute review board), and
 - Arbitration.



Way Forward

- Enabling MOU needs to be worked out
- Joint Study Group needs to be set up for carrying out feasibility study.
- Implementing Agency need to be identified.
- Nodal authorized agencies need to be identified for facilitating power exchange and settlement of payments.
- Coordination committees/groups need to be set up for design, project monitoring, and operation & maintenance of interconnection project.

T H A N K S

OPERATION OF STABLE & SECURE SAARC ELECTRICITY GRIDS

CONNECTIVITY AND AGREEMENTS

- Points of interconnection and mode of power transfer
 - To be mutually decided.
- Ensuring Secure Grid operation:
 - Adequacy of Transmission System at the point of inter-connection (considering the Planning criteria in vogue in the respective country)
 - Adhering to the approved Grid Standards of the respective countries
- Facilitate trading between the participating two countries
 - Agreements at all appropriate levels to be executed.
- Compliance to Laws, Rules and Regulations
 - All entities participating in the international trades to abide by the Laws, Rules and Regulations prevailing in the respective countries.

AGENCIES FOR SYSTEM OPERATION

- **Power System Operation**

- System Operators at the National Level, in each of the SAARC countries, are to be responsible for co-ordinating and carrying out all activities associated with the scheduling & despatch and real time control of cross border links
- The detailed roles of each such agency to be deliberated and finalized mutually between the two SAARC countries.

- **Transmission System**

- Transmission System Owners in the respective countries would be responsible for the physical operation & maintenance of the assets.

IDENTIFICATION OF AGENCIES FOR SALE/PURCHASE OF POWER

- The participating countries shall mutually agree to permit identified grid connected entities to carry out cross border trading in Power directly or through an intermediary (trader).
 - Each country may recognize the entities to carry out trade in Electricity in its host country as eligible entity for carrying out international trades
- A Nodal Agency shall be appointed by the respective countries which shall be responsible for settling all international payments

OPERATING CODE

- a) Operating Philosophy**
- b) System Security Aspects**
- c) Protection Co-ordination**
- d) Manning Aspects**
- e) Operational Liaison**
- f) Operating Instructions**
- g) Reactive Power Compensation**
- h) Outage planning**
- i) Recovery Procedures**
- j) Event Information**

DECLARATION OF AVAILABLE MARGINS FOR FACILITATING MARKET TRADES

- Assessment of transfer capability by System Operators
 - The Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) for the international interconnection to be assessed and shared.
 - The TTC / TRM assessed would be reviewed periodically
 - The quantum of power scheduled shall not exceed the ATC limits agreed to by the System Operators.

SCHEDULING AND DESPATCH PROCEDURE

- Scheduling and despatch of bilateral trades between participating countries.
 - As per quantum agreed in the bilateral contracts
 - For each 15-minute time block in a day, 0000 hrs. to 2400 hrs.
 - Administration of transmission losses based on a mutually agreed methodology.
 - Seller, through the System Operator in its Country, to declare the quantum of power to be scheduled over the cross border link by 0900 hrs., on a day-ahead basis for the next day.
 - Final despatch schedules over the cross border links by 1800 hrs. of the current day for the next day.
 - Priority of scheduling to be - long-term contracts and short term bilateral contracts in that order.

CONGESTION MANAGEMENT

- Congestion over the international interconnection(s)
 - While scheduling, the trades would be curtailed for the period of congestion and scheduled in such a manner so as not to exceed the ATC.
 - In case of real time congestion, trades would be curtailed on a pro-rata basis for the period of congestion.
 - The priority of curtailment of trades would be curtailment of short term trades first, followed by long term trades.

(Note: Classification of trades as 'short-term' and 'long-term' would be as mutually agreed)

METERING, ACCOUNTING, DEVIATIONS FROM SCHEDULE AND SETTLEMENT

- Metering
 - Concerned utility to install special energy meters (SEMs) on all international inter connections for recording of actual net MWh interchanges on a 15-minute basis and MVArh draws.
 - Installation, operation and maintenance of SEMs to be in accordance with prevailing Regulations in the respective countries and through mutual agreement.
 - Weekly joint meter readings shall be transmitted to the respective System Operators by Tuesday noon
 - Net import/export to be computed by each System Operator for their respective ends and reconciled with the counterparts.

METERING, ACCOUNTING, DEVIATIONS FROM SCHEDULE AND SETTLEMENT

Contd..

- Deviations from schedule (imbalance)
 - Deviation from schedule on the Cross Border Link to be calculated for each 15 minute time block.
 - Charges for deviation from schedule at the point of injection and drawal shall be paid by the selling and buying utilities in both countries in their respective pools
 - A mutually acceptable and suitable mechanism for settlement of the deviation from schedule on the Cross Border Link needs to be evolved.
- Transmission Charges
 - Transmission charges for wheeling of power up to the international interconnection for the international trade would be borne by both the buyer and the seller as per the prevailing methodology in the respective country.
 - Transmission charges for the international interconnection would be payable by the market participants as agreed

METERING, ACCOUNTING, DEVIATIONS FROM SCHEDULE AND SETTLEMENT

Contd..

- System Operation Charges
 - System Operation charges would be payable to the System Operators of the respective countries by the participants to the trade.
- Taxes & other charges
 - Taxes, levies and other statutory duties / levies would be payable by the participants as per the prevailing laws of the land.
 - Any other charges levied from time to time by the Regulator or changes in law would be payable as and when levied.
- International payments
 - International payments would have the highest priority
 - All payments shall be settled directly by the parties to the trade directly between them

PAYMENT SECURITY MECHANISM

- A suitable payment security mechanism for transmission charges, system operation charges and charges of imbalance would be put in place by the participating countries.

SYSTEM STUDIES AND MODELLING DATA

- The participating countries may share power system modelling data for the purpose of carrying out planning and operational system studies.

REAL TIME SCADA DATA, COMMUNICATION FACILITIES, CYBER SECURITY

- Reliable and efficient speech & data communication systems, with adequate redundancy of communication links,
- Systems to telemeter power system parameters such as flow, voltage and status of switches/ transformer taps etc.
- Hierarchical communication systems
- A hotline, with a backup, for voice communication
- A cyber-security framework
- Special Protection Schemes in the respective countries.

DATA RECORDING INSTRUMENTS

- Recording instruments such as
 - Data Acquisition
 - System/Disturbance Recorder
 - Event Logging Facilities
 - Fault Locator (including time synchronization equipment)

shall be provided and shall always be kept in working condition at both ends of the cross border interconnection for recording of dynamic performance of the system.

- A provision for installation of latest technology equipments, such as Phasor Measurement devices, shall also be provided.

COORDINATION BETWEEN SYSTEM OPERATORS

- **Operation and Protection Co-ordination Group:**

- The Operation and Protection Co-ordination Group to have members from the System Operators of both the Countries to look into various aspects associated with the operation of the cross border links, including any protection coordination issues.

- **Commercial Co-ordination Group:**

- The Commercial Co-ordination Group would have members from the System Operators of both the countries to look into all commercial aspects related to the operation of the cross border links.
- The Groups may meet once every calendar quarter.

OTHER ISSUES

- **SAFETY ASPECTS**

- The concerned transmission asset owners shall ensure compliance of all Safety Requirements for equipment and personnel, as specified in the relevant Technical Standards of the concerned Country.

- **DISPUTE RESOLUTION**

- a mechanism for dispute resolution to be put into place through mutual agreement.

- **POWER SUPPLY REGULATION MECHANISM UNDER DEFAULT IN PAYMENT**

- Power Supply of buyer may be regulated in case of their default in making payment and for providing requisite payment security Mechanism.

Thanks

5th Meeting of the SAARC Energy Ministers preceded by Meeting of Senior Officials

New Delhi: 16 - 17 October, 2014



Presentation on SAARC Energy Centre

Md. Anwarul Islam

Research Fellow

SAARC Energy Centre, Islamabad



Outline

- Energy Situation of SAARC Region
- SAARC Energy Centre
- Programme Activities 2014
- Programme Activities 2015
- SAARC Energy Ring
- Impacts of SEC's Initiatives

Energy Situation of South Asia

Reserve

Coal

- 63,036 Million tonnes, proved recoverable

Natural Gas

- 2,308 Billion cubic meters, proved recoverable

Oil

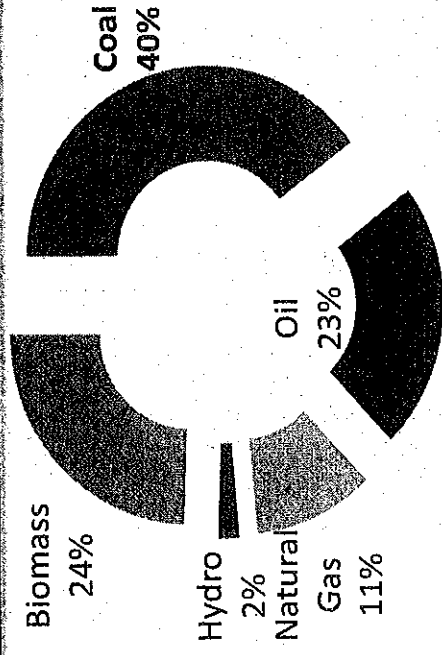
- 785 Million tonnes, proved recoverable

Hydropower

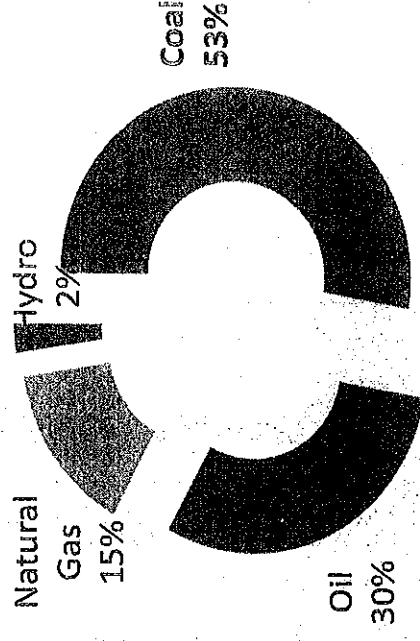
- 4,528,000 GWh/year, gross theoretical capability

Energy Situation of South Asia

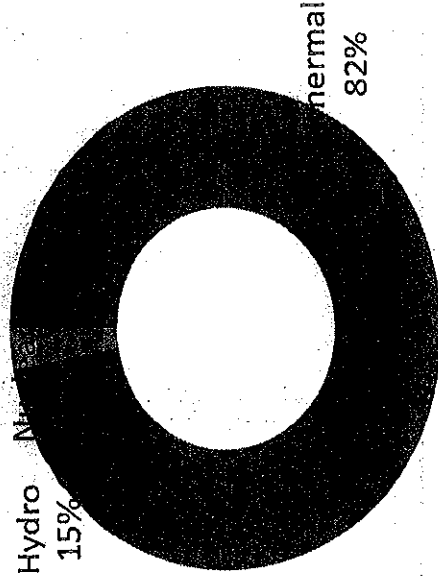
Supply



Primary Energy: 880,122 ktoe



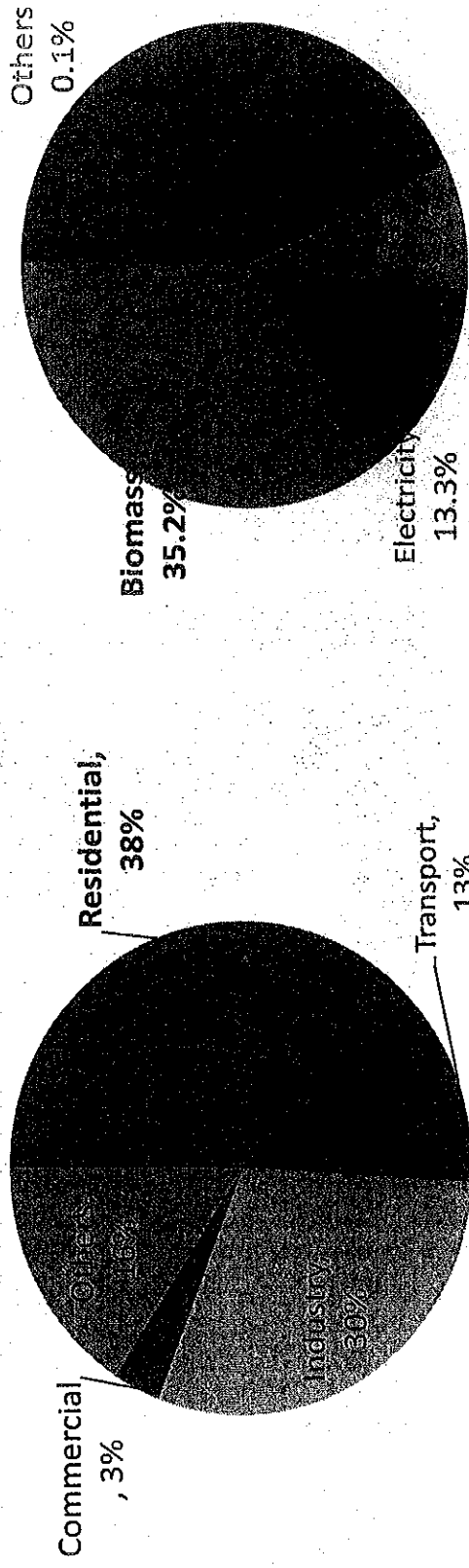
Commercial Energy: 665,001 ktoe



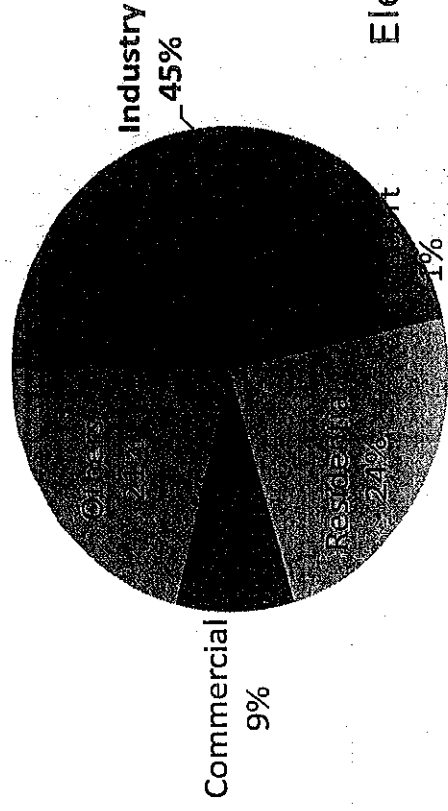
Electricity Generation: 1113,614 GWh

Energy Situation of South Asia

Consumption



Final Energy: 528,608 ktoe



Electricity by Sector: 822,437 GWh

Energy Situation of South Asia

Energy Indicators

Country/ Region	Energy Use (kgoe/capita)	ACGR Last 10 years	Electricity Use (kWh/capita)	ACGR Last 10 years
SAARC	514	2.5%	517	4.1%
USA	7,051	-1.2%	12,914	-0.3%
EU	3,536	-0.4%	6,592	0.7%
BRAZIL	1,243	1.4%	2,206	1.9%
MALAYASIA	2,391	3.0%	3,614	3.3%
CHINA	1,695	6.9%	2,631	11.2%
WORLD	1,788	0.9%	2,803	2.0%

SAARC Energy Centre

Establishment

- Year 2006 at Islamabad, Pakistan

Objective

- Initiate, promote and facilitate cooperation in energy sector of SAARC Member States for the benefit of all

Funding

- SAARC Member States; supervised by a Governing Board comprising all Member States

Technical Resources

- Professional staffs selected from Member States
- Expert services obtained through outsourcing

Networking

- ADB, WB, UNESCAP, ASEAN, Japan, US, Germany

Principles of Programme Directions



Summit

Energy Ministers' Forum

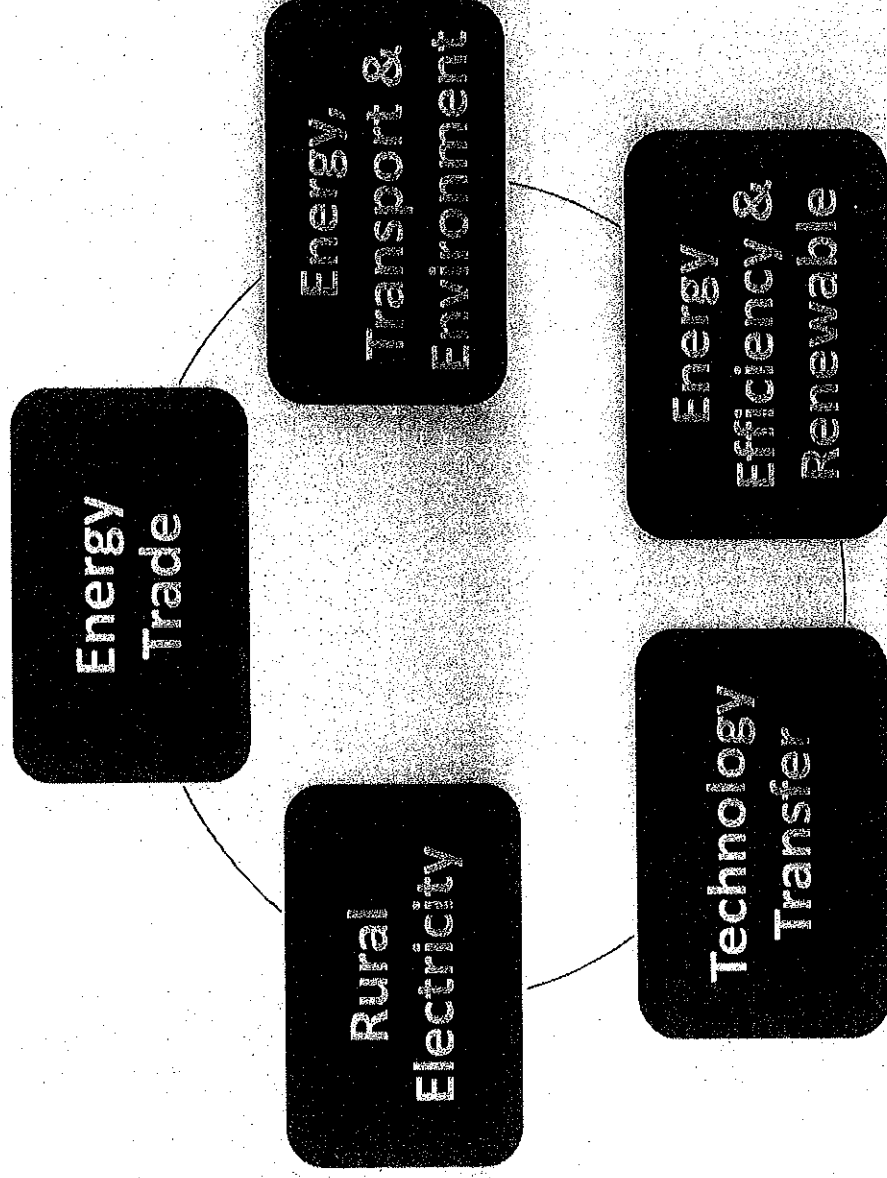
Working Group of Energy &
Governing Board

Four Expert Groups

Strategic & Operational Plan

Participatory Design in
collaboration with Member States

Thematic Areas of Programme Activities



Programme Activities 2014

Current Activities of SEC (1/4)

Energy Trade

- Study on Designing Management and Monitoring Framework for Regulatory Compliance by Power Transmission Utilities in Region
- Study for Development of a Potential Regional Hydro Power Plant in South Asia
- SAARC Energy Data Book
- SAARC Workshop on Experience Sharing of Construction, Operation and Maintenance of LNG Facilities
- SAARC Workshop on Harmonizing Regulations and Policies for Cross Border Power Trade, Risk Sharing and Financial Settlement Issues
- SAARC Inception Workshop on 20-Year Perspective Plan for the Power Sector of SAARC Region

Current Activities of SEC (2/4)

Energy Efficiency & Renewable Energy

- Study for Assessment of Energy Efficiency Potential through Energy Audit on Power Transmission and Distribution Grid Stations
- SAARC Workshop on Role of Independent Media for Increasing Public Awareness in Energy Conservation
- Webinar on Concept, Establishment and Operation of a Power Exchange for Regional Power Trading

Current Activities of SEC (3/4)

Technology Transfer

- SAARC Dissemination Workshop on Cogeneration Opportunities in Sugar and Paper Industries in SAARC Member States
- SAARC Training Workshop on Power System Studies for Synchronization of Multiple Systems

Current Activities of SEC (4/4)

Rural Electricity for Poverty Alleviation

- Comparative Study on Rural Electrification Policies in SAARC Member States



Programme Activities 2015

Program Activities - 2015 (1/6)

Energy Trade

- Feasibility Study for Setting Up SAARC Regional/Sub-regional LNG Terminals
- SAARC Energy Data Book
- Study for the Development of 20-Year Perspective Plan for the Power Sector of the SAARC Region
- SAARC Dissemination Workshop on Study for Designing Management and Monitoring Framework for Regulatory Compliance by Power Transmission Utilities in SAARC Region
- SAARC Dissemination Workshop on the Study for Development of a Potential Regional Hydro Power Plant in South Asia

Program Activities - 2015 (2/6)

Energy Efficiency

- Study on Harmonizing Transmission Grid Codes of SAARC Member States to Combat Regulatory Challenges for Intra-region Power Trading/Interconnections
- Study on Optimum Power Generation Mix for a Sustainable Power Sector in South Asia
- Study on Energy Efficiency in Transport Sector in SAARC Region
- SAARC Workshop on Energy Based Livelihoods Contributing to Economic Empowerment of the Marginalized Sectors and Women in the SAARC Region
- Promotion of SAARC Chullahs (Improved Cooking Stoves-ICS) for their Commercialization / Scaling up in the SAARC Member States

Program Activities - 2015 (3/6)

Renewable Energy

- Comparative Study for the Prevailing Tariff of Renewable Energy in Member States and, Assessing and Recommending Options such as Net-metering, Banking and Wheeling
- Study to Assess Renewable Energy Development in South Asia; Achievements and the Way Forward in the Perspective of Policies and Investment Opportunities
- SAARC Seminar on Application of on-grid Biogas Technologies

Program Activities - 2015 (4/6)

Technology Transfer

- SAARC Training Workshop on Experience Sharing on Coal Bed Methane, Underground Coal Gasification
- SAARC Perspective Workshop on the Past, Present and Future of High Voltage DC (HVDC) Power Transmission
- SAARC Technical Training Course for Power System Planners and Analysts Through Distance Learning

Program Activities - 2015 (5/6)

Rural Electricity for Poverty Alleviation

- SAARC Dissemination Workshop on Comparative Study on Rural Electrification Policies in SAARC Member States

Program Activities - 2015 (6/6)

Energy, Transport & Environment

- SAARC Workshop on Role of Energy in Transport
Sector in SAARC Member States

SAARC Energy Ring - SENERING

- SAARC ENERGY RING: a Vision given by SAARC Leaders at the 2004 Islamabad Summit
- Vision translated into reality by SAARC Energy Centre
- Four Expert Groups engaged with way forward in:
 - Oil and Gas
 - Electricity
 - Renewable Energy
 - Technology Transfer (including Coal & Energy Efficiency)

SAARC Energy Ring: Power Grid



SAARC Energy Ring: Gas Grid



- Turkmenistan-Afghanistan-Pakistan-India
- Pakistan-India
- Iran-Pakistan-India
- Qatar-Pakistan-India

Studies on SENERING

- **SAARC Regional Energy Trade Study (SRETS)** identified four regional or sub-regional energy trade options:
 - Power Market
 - Petroleum Refinery
 - LNG Terminal
 - Power Plant
- A recent ADB funded study on **South Asia Regional Power Exchange** has identified various opportunities in electricity trade

Next Steps for SAARC Energy Ring

- Detailed Scenario Analysis on Regional Interconnections
- SAARC Electricity Transmission Master Plan
- SAARC Inter-Governmental Framework Agreement for Regional Cooperation in Energy (Electricity)

Studies on SENERING

Interconnection	Capacity (MW)	Est. Cost (Million USD)	Annual Benefit (Million USD)
India-Bhutan	2,100	140-160	1,840
India-Nepal	1,000	186	105
India-Sri Lanka	500	500	486
India-Bangladesh	500	192-250	145-389
India-Pakistan	250-500	50-150	335-491
CASA 1000	1,000	970	906

Impact of SEC's Initiatives

- Regional and International energy cooperation -- a reality
- Business community realizes the benefits of energy cooperation; Investment opportunities of several billion dollars
- Free flow of information and experiences across SAARC Member States for capacity building
- Initiation of energy trading among SAARC Member States

Thank You For Attention